# **DEPARTMENT OF DEFENSE**

# Fiscal Year 2013 President's Budget Submission

February 2012



**ARMY** 

Justification Book

**AIRCRAFT PROCUREMENT, ARMY** 

**UNCLASSIFIED** 

# DEPARTMENT OF THE ARMY FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

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#### **DEPARTMENT OF THE ARMY FY 2013 PROCUREMENT PROGRAM** President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

**APPROPRIATION SUMMARY APPROPRIATION** 

Aircraft Procurement, Army

**TOTAL PROCUREMENT PROGRAM** 

#### **DOLLARS IN THOUSANDS**

PAGE	Y2013 Total	/2013 OCO F	FY2013 FY	FY2012	FY2011
3	6,339,929	486,200	5,853,729	6,497,715	8,046,087
	6.339.929	486,200	5.853.729	6.497.715	8.046.087

# DEPARTMENT OF THE ARMY FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

# **APPROPRIATION** Aircraft Procurement, Army **ACTIVITY**

	APPROPRIATION TOTALS
04	Support equipment and facilities
03	Spares and repair parts
02	Modification of aircraft
01	Aircraft

#### **DOLLARS IN THOUSANDS**

PAGE	FY2013 Total	FY2013 OCO	FY2013	FY2012	FY2011
4	4,687,226	486,200	4,201,026	4,726,042	4,635,677
6	1,276,743		1,276,743	1,330,011	2,744,779
7					10,398
8	375,960		375,960	441,662	655,233
	6,339,929	486,200	5,853,729	6,497,715	8,046,087

# DEPARTMENT OF THE ARMY FY 2013 PROCUREMENT PROGRAM

President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

	PROPRIATION Aircraft Procurement, Army	ACTIVITY 01 Aircraft	EV.	2044	EV			N THOUSAN		12.000	EV 204	TOTAL
LIN NO	ITEM NOMENCLATURE	ID	QTY	2011 COST	QTY 2	2012 COST	QTY	2013 COST	QTY	13 OCO COST	QTY	COST
	Fixed Wing											
1	Utility F/W Aircraft (A11300)				2	14,572	2	18,639			2	18,639
2	C-12 CARGO AIRPLANE (A02700)	Α		78,060								
3	MQ-1 UAV (A00005)	А	39	455,851	43	550,798	19	518,088			19	518,088
4	RQ-11 (RAVEN) (A00010)	Α	206	37,467	900	86,062	234	25,798			234	25,798
5	BCT Unmanned Aerial Veh (UAVS) Incr 1 (A00015)	Α		26,415								
	SUB-ACTIVITY TOTAL		<del>-</del>	597,793		651,432	-	562,525			_	562,525
	Rotary											
6	Helicopter, Light Utility (LUH) (A05001)	Α	50	303,544	39	250,415	34	271,983			34	271,983
7	AH-64 Apache Block IIIA Reman (A05111) Less: Advance Procurement (PY)	А	16 _	(400,050) (-69,253) 330,797	19 _	(528,742) (-160,237) 368,505	40	(769,879) (-192,764) 577,115			40 _	(769,879) (-192,764) 577,115
8	AH-64 Apache Block IIIA Reman (A05111) Advance Procurement (CY)			160,237		192,764		107,707				107,707
9	AH-64 Apache Block IIIB New Build (A05133) Less: Advance Procurement (PY)	Α					8	(258,256) (-104,263) 153,993	2	71,000	_	(329,256) (-104,263) 224,993
10	AH-64 Apache Block IIIB New Build (A05133) Advance Procurement (CY)					104,263		146,121		71,000		146,121
11	AH-64 Block II/WRA (A05121)	А		34,600								
12	Kiowa Warrior (OH-58F) WRA (A02345)	А			9	100,800			16	183,900	16	183,900
13	UH-60 Blackhawk M Model (MYP) (AA0005) Less: Advance Procurement (PY)		99 ( _	1,790,851) (-101,925) 1,688,926	72 ( _	1,597,728) (-99,962) 1,497,766	59 -	(1,304,979) (-197,892) 1,107,087			59 ( _	1,304,979) (-197,892) 1,107,087

#### DEPARTMENT OF THE ARMY

#### FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

APPROPRIATION Aircraft Procurement, Army	ACTIVITY 01 Aircraft	DOLLARS IN THOUSANDS									
LINE		FY:	2011	FY	2012	FY	2013	FY 20	13 OCO	FY 201	3 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
14 UH-60 Blackhawk M Model (MYP) (AA0005)											,
Advance Procurement (CY)			99,962		199,781		115,113				115,113
15 CH-47 Helicopter (A05101)	А	49	(1,403,980)	47	(1,305,718)	38	(1,196,992)	6	(231,300)	44	(1,428,292)
Less: Advance Procurement (PY)			(-50,520)		(-66,358)		(-120,956)				(-120,956)
		_	1,353,460		1,239,360		1,076,036	-	231,300		1,307,336
16 CH-47 Helicopter (A05101)											
Advance Procurement (CY)			66,358		120,956		83,346				83,346
SUB-ACTIVITY TOTAL		-	4,037,884		4,074,610		3,638,501	-	486,200		4,124,701
ACTIVITY TOTAL		-	4,635,677		4,726,042		4,201,026	-	486,200		4,687,226

# DEPARTMENT OF THE ARMY

#### FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

**APPROPRIATION** Aircraft Procurement, Army **ACTIVITY** 02 Modification of aircraft **DOLLARS IN THOUSANDS** LINE FY 2011 FY 2012 FY 2013 FY 2013 OCO FY 2013 TOTAL NO ITEM NOMENCLATURE ID QTY COST QTY COST QTY COST OTY COST QTY COST Modifications Of Aircraft 17 C12 AIRCRAFT MODS (A01234) Α 122,340 18 MQ-1 Payload - UAS (A00020) Α 83.556 146.983 231.508 231.508 19 MQ-1 Weaponization - UAS (A00025) Α 14,644 20 Guardrail Mods (MIP) (AZ2000) 31,650 27,575 16,272 16,272 21 Multi Sensor ABN Recon (MIP) (AZ2001) 103,084 62,862 4,294 4,294 22 AH-64 MODS (AA6605) Α 1,045,740 331.230 178,805 178.805 23 CH-47 Cargo Helicopter Mods (MYP) (AA0252) 139.902 57.012 39.135 39.135 24 Utility/Cargo Airplane Mods (AA0270) 16,338 12,107 24,842 24,842 25 Aircraft Long Range Mods (AA0560) 808 26 Utility Helicopter Mods (AA0480) 128,460 74,745 73,804 73,804 27 KIOWA Mods Warrior (AZ2200) 202.437 92.552 192,484 192,484 28 Airborne Avionics (AA0700) 209,231 29 Network And Mission Plan (AA0712) Α 136,432 190,789 190,789 30 Comms, Nav Surveillance (AA0723) 117,855 133,191 133,191 Α 31 GATM Rollup (AA0711) Α 97,591 105,519 87.280 87,280 32 RQ-7 UAV MODS (A00018) Α 548.998 165.139 104.339 104.339 SUB-ACTIVITY TOTAL 2,744,779 1,276,743 1,276,743 1,330,011 **ACTIVITY TOTAL** 2,744,779 1,330,011 1,276,743 1,276,743

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#### FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

APPROPRIATION Aircraft Procurement, Army	<b>ACTIVITY</b> 03 Spares and repair parts	DOLLARS IN THOUSANDS									
LINE		F۱	FY 2011		FY 2012		FY 2013		FY 2013 OCO		13 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Spares and Repair Parts											
33 Spare Parts (AIR) (AA0950)			10,39	8							
SUB-ACTIVITY TOTAL			10,39	8							
ACTIVITY TOTAL			10,39	<u>-</u> 8		<del>_</del>		<del>-</del>			0

# DEPARTMENT OF THE ARMY

#### FY 2013 PROCUREMENT PROGRAM President's Budget 2013

**EXHIBIT P-1 DATE:** 07-Feb-2012 11:17

APPROPRIATION Aircraft Procurement, Army

**ACTIVITY** 04 Support equipment and facilities

DOLLARS	IN	THOU	JSA	ANDS
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ALL KOLKIATION Allicialt Flocule liletit, Allily	ACTIVITY 04 Support equipment and facilities				DOL	LANS I	N INCUSA	IIDO			
LINE NO ITEM NOMENCLATURE	ID	FY QTY	2011 COST	FY : QTY	2012 COST	FY QTY	2013 COST	FY 20 QTY	13 OCO COST	FY 201 QTY	3 TOTAL COST
Ground Support Avionics											
34 Aircraft Survivability Equipment (AZ3504)			24,338		35,993		34,037				34,037
35 Survivability CM (AZ3507)			345,783								
36 CMWS (AZ3517)	Α				104,251		127,751				127,751
SUB-ACTIVITY TOTAL		-	370,121	-	140,244	•	161,788				161,788
Other Support											
37 Avionics Support Equipment (AZ3000)			4,857		4,840		4,886				4,886
38 Common Ground Equipment (AZ3100)			141,324		114,517		82,511				82,511
39 Aircrew Integrated Systems (AZ3110)			52,125		62,746		77,381				77,381
40 Air Traffic Control (AA0050)			82,374		114,844		47,235				47,235
41 Industrial Facilities (AZ3300)			1,557		1,593		1,643				1,643
42 Launcher, 2.75 Rocket (A50100)		495	2,875	464	2,878		516				516
SUB-ACTIVITY TOTAL		_	285,112	_	301,418	·	214,172			•	214,172
ACTIVITY TOTAL		-	655,233	-	441,662	•	375,960			•	375,960
APPROPRIATION TOTAL		-	8,046,087	-	6,497,715		5,853,729		486,20	0	6,339,929

#### NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
A05111	7	4	AH-64 Apache Block IIIA Reman (A05111)
A05111	8	4	AH-64 Apache Block IIIA Reman (A05111)
A05133	9	4	AH-64 Apache Block IIIB New Build (A05133)
A05133	10	4	AH-64 Apache Block IIIB New Build (A05133)
A05121	11	4	AH-64 Block II/WRA (A05121)
AA6605	22	6	AH-64 MODS (AA6605)
AA0050	40	8	Air Traffic Control (AA0050)
AA0700	28	6	Airborne Avionics (AA0700)
AA0560	25	6	Aircraft Long Range Mods (AA0560)
AZ3504	34	8	Aircraft Survivability Equipment (AZ3504)
AZ3110	39	8	Aircrew Integrated Systems (AZ3110)
AZ3000	37	8	Avionics Support Equipment (AZ3000)
A00015	5	4	BCT Unmanned Aerial Veh (UAVS) Incr 1 (A00015)
A02700	2	4	C-12 CARGO AIRPLANE (A02700)
A01234	17	6	C12 AIRCRAFT MODS (A01234)
AA0252	23	6	CH-47 Cargo Helicopter Mods (MYP) (AA0252)
A05101	15	5	CH-47 Helicopter (A05101)
A05101	16	5	CH-47 Helicopter (A05101)
AZ3517	36	8	CMWS (AZ3517)
AZ3100	38	8	Common Ground Equipment (AZ3100)
AA0723	30	6	Comms, Nav Surveillance (AA0723)
AA0711	31	6	GATM Rollup (AA0711)
AZ2000	20	6	Guardrail Mods (MIP) (AZ2000)
A05001	6	4	Helicopter, Light Utility (LUH) (A05001)
AZ3300	41	8	Industrial Facilities (AZ3300)
AZ2200	27	6	KIOWA Mods Warrior (AZ2200)
A02345	12	4	Kiowa Warrior (OH-58F) WRA (A02345)
A50100	42	8	Launcher, 2.75 Rocket (A50100)
A05111	7	4	Less: Advance Procurement (PY)
A05133	9	4	Less: Advance Procurement (PY)
AA0005	13	4	Less: Advance Procurement (PY)
A05101	15	5	Less: Advance Procurement (PY)
A00020	18	6	MQ-1 Payload - UAS (A00020)
A00005	3	4	MQ-1 UAV (A00005)
A00025	19	6	MQ-1 Weaponization - UAS (A00025)
AZ2001	21	6	Multi Sensor ABN Recon (MIP) (AZ2001)
AA0712	29	6	Network And Mission Plan (AA0712)
A00010	4	4	RQ-11 (RAVEN) (A00010)
A00018	32	6	RQ-7 UAV MODS (A00018)
AA0950	33	7	Spare Parts (AIR) (AA0950)
AZ3507	35	8	Survivability CM (AZ3507)
AA0005	13	4	UH-60 Blackhawk M Model (MYP) (AA0005)

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#### NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
AA0005	14	4	UH-60 Blackhawk M Model (MYP) (AA0005)
A11300	1	4	Utility F/W Aircraft (A11300)
AA0480	26	6	Utility Helicopter Mods (AA0480)
AA0270	24	6	Utility/Cargo Airplane Mods (AA0270)

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SSN	LINE	PAGE	NOMENCLATURE
A00005	3	4	MQ-1 UAV (A00005)
A00010	4	4	RQ-11 (RAVEN) (A00010)
A00015	5	4	BCT Unmanned Aerial Veh (UAVS) Incr 1 (A00015)
A00018	32	6	RQ-7 UAV MODS (A00018)
A00020	18	6	MQ-1 Payload - UAS (A00020)
A00025	19	6	MQ-1 Weaponization - UAS (A00025)
A01234	17	6	C12 AIRCRAFT MODS (A01234)
A02345	12	4	Kiowa Warrior (OH-58F) WRA (A02345)
A02700	2	4	C-12 CARGO AIRPLANE (A02700)
A05001	6	4	Helicopter, Light Utility (LUH) (A05001)
A05101	15	5	CH-47 Helicopter (A05101)
A05101	15	5	Less: Advance Procurement (PY)
A05101	16	5	CH-47 Helicopter (A05101)
A05111	7	4	AH-64 Apache Block IIIA Reman (A05111)
A05111	7	4	Less: Advance Procurement (PY)
A05111	8	4	AH-64 Apache Block IIIA Reman (A05111)
A05121	11	4	AH-64 Block II/WRA (A05121)
A05133	9	4	AH-64 Apache Block IIIB New Build (A05133)
A05133	9	4	Less: Advance Procurement (PY)
A05133	10	4	AH-64 Apache Block IIIB New Build (A05133)
A11300	1	4	Utility F/W Aircraft (A11300)
A50100	42	8	Launcher, 2.75 Rocket (A50100)
AA0005	13	4	UH-60 Blackhawk M Model (MYP) (AA0005)
AA0005	13	4	Less: Advance Procurement (PY)
AA0005	14	4	UH-60 Blackhawk M Model (MYP) (AA0005)
AA0050	40	8	Air Traffic Control (AA0050)
AA0252	23	6	CH-47 Cargo Helicopter Mods (MYP) (AA0252)
AA0270	24	6	Utility/Cargo Airplane Mods (AA0270)
AA0480	26	6	Utility Helicopter Mods (AA0480)
AA0560	25	6	Aircraft Long Range Mods (AA0560)
AA0700	28	6	Airborne Avionics (AA0700)
AA0711	31	6	GATM Rollup (AA0711)
AA0712	29	6	Network And Mission Plan (AA0712)
AA0723	30	6	Comms, Nav Surveillance (AA0723)
AA0950	33	7	Spare Parts (AIR) (AA0950)
AA6605	22	6	AH-64 MODS (AA6605)
AZ2000	20	6	Guardrail Mods (MIP) (AZ2000)
AZ2001	21	6	Multi Sensor ABN Recon (MIP) (AZ2001)
AZ2200	27	6	KIOWA Mods Warrior (AZ2200)
AZ3000	37	8	Avionics Support Equipment (AZ3000)
AZ3100	38	8	Common Ground Equipment (AZ3100)
AZ3110	39	8	Aircrew Integrated Systems (AZ3110)

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#### SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
AZ3300	41	8	Industrial Facilities (AZ3300)
AZ3504	34	8	Aircraft Survivability Equipment (AZ3504)
AZ3507	35	8	Survivability CM (AZ3507)
AZ3517	36	8	CMWS (AZ3517)

# Army - President's Budget Submission FY 2013 - Procurement

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1	01	10	A11300	Utility F/W Aircraft	1
2	01	10	A02700	C-12 CARGO AIRPLANE	6
3	01	10	A00005	MQ-1 UAV	
4	01	10	A00010	RQ-11 (RAVEN)	20
5	01	10	A00015	BCT Unmanned Aerial Veh (UAVS) Incr 1	27
6	01	20	A05001	Helicopter, Light Utility (LUH)	28
7	01	20	A05111	AH-64 Apache Block IIIA Reman	36 43
8	01	20	A05111	AH-64 Apache Block IIIA Reman Advance Procurement	36 43
9	01	20	A05133	AH-64 Apache Block IIIB New Build	47 53
10	01	20	A05133	AH-64 Apache Block IIIB New Build Advance Procurement	47 53
11	01	20	A05121	AH-64 Block II/WRA	56
12	01	20	A02345	Kiowa Warrior WRA	57
13	01	20	AA0005	UH-60 Blackhawk M Model (MYP)	64 72
14	01	20	AA0005	UH-60 Blackhawk M Model (MYP) Advance Procurement	64 72
15	01	20	A05101	CH-47 Helicopter	75 88
16	01	20	A05101	CH-47 Helicopter Advance Procurement	75 88

# Army • President's Budget Submission FY 2013 • Procurement

# Appropriation 2031A: Aircraft Procurement, Army

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18	01	20	A06500	HELICOPTER NEW TRAINING	91

### Appropriation 2031A: Aircraft Procurement, Army

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17	02	10	A01234	C12 AIRCRAFT MODS	92
18	02	10	A00020	MQ-1 Payload - UAS	93
19	02	10	A00025	MQ-1 Weaponization - UAS	101
20	02	10	AZ2000	Guardrail Mods (MIP)	103
21	02	10	AZ2001	Multi Sensor ABN Recon (MIP)	126
22	02	10	AA6605	AH-64 MODS	146
23	02	10	AA0252	CH-47 Cargo Helicopter Mods (MYP)	190
24	02	10	AA0270	Utility/Cargo Airplane Mods	235
25	02	10	AA0560	Aircraft Long Range Mods	241
26	02	10	AA0480	Utility Helicopter Mods	242
27	02	10	AZ2200	KIOWA WARRIOR	258
28	02	10	AA0700	Airborne Avionics	281

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## Appropriation 2031A: Aircraft Procurement, Army

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29	02	10	AA0712	Network And Mission Plan	305
30	02	10	AA0723	Comms, Nav Surveillance	327
31	02	10	AA0711	GATM Rollup	344
32	02	10	A00018	RQ-7 UAV MODS	371

# Appropriation 2031A: Aircraft Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
33	03	10	AA0950	Spare Parts (AIR)	386

## Appropriation 2031A: Aircraft Procurement, Army

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34	04	10	AZ3504	Aircraft Survivability Equipment	387
35	04	10	AZ3507	Survivability CM	395
36	04	10	AZ3517	CMWS	403

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# Appropriation 2031A: Aircraft Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
37	04	30	AZ3000	Avionics Support Equipment	410
38	04	30	AZ3100	Common Ground Equipment	412
39	04	30	AZ3110	Aircrew Integrated Systems	415
40	04	30	AA0050	Air Traffic Control	426
41	04	30	AZ3300	Industrial Facilities	430
42	04	30	A50100	Launcher, 2.75 Rocket	431

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

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AH-64 Apache Block IIIA Reman	A05111	7	01	20	36 43
AH-64 Apache Block IIIA Reman Advance Procurement	A05111	8	01	20	36 43
AH-64 Apache Block IIIB New Build	A05133	9	01	20	47 53
AH-64 Apache Block IIIB New Build Advance Procurement	A05133	10	01	20	47 53
AH-64 Block II/WRA	A05121	11	01	20	56
AH-64 MODS	AA6605	22	02	10	146
Air Traffic Control	AA0050	40	04	30	426
Airborne Avionics	AA0700	28	02	10	281
Aircraft Long Range Mods	AA0560	25	02	10	241
Aircraft Survivability Equipment	AZ3504	34	04	10	387
Aircrew Integrated Systems	AZ3110	39	04	30	415
Avionics Support Equipment	AZ3000	37	04	30	410
BCT Unmanned Aerial Veh (UAVS) Incr 1	A00015	5	01	10	27
C-12 CARGO AIRPLANE	A02700	2	01	10	6
C12 AIRCRAFT MODS	A01234	17	02	10	92
CH-47 Cargo Helicopter Mods (MYP)	AA0252	23	02	10	190
CH-47 Helicopter	A05101	15	01	20	75 88

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Line Item Title	Line Item Number	Line #	ВА	BSA	Page
CH-47 Helicopter Advance Procurement	A05101	16	01	20	75 88
CMWS	AZ3517	36	04	10	403
Common Ground Equipment	AZ3100	38	04	30	412
Comms, Nav Surveillance	AA0723	30	02	10	327
GATM Rollup	AA0711	31	02	10	344
Guardrail Mods (MIP)	AZ2000	20	02	10	103
HELICOPTER NEW TRAINING	A06500	18	01	20	91
Helicopter, Light Utility (LUH)	A05001	6	01	20	28
Industrial Facilities	AZ3300	41	04	30	430
KIOWA WARRIOR	AZ2200	27	02	10	258
Kiowa Warrior WRA	A02345	12	01	20	57
Launcher, 2.75 Rocket	A50100	42	04	30	431
MQ-1 Payload - UAS	A00020	18	02	10	93
MQ-1 UAV	A00005	3	01	10	11
MQ-1 Weaponization - UAS	A00025	19	02	10	101
Multi Sensor ABN Recon (MIP)	AZ2001	21	02	10	126
Network And Mission Plan	AA0712	29	02	10	305
RQ-11 (RAVEN)	A00010	4	01	10	20
RQ-7 UAV MODS	A00018	32	02	10	371
Spare Parts (AIR)	AA0950	33	03	10	386

# Army • President's Budget Submission FY 2013 • Procurement

Line Item Title	Line Item Number	Line #	ВА	BSA Page
Survivability CM	AZ3507	35	04	10395
UH-60 Blackhawk M Model (MYP)	AA0005	13	01	20 64 72
UH-60 Blackhawk M Model (MYP) Advance Procurement	AA0005	14	01	20 64 72
Utility F/W Aircraft	A11300	1	01	10 1
Utility Helicopter Mods	AA0480	26	02	10 242
Utility/Cargo Airplane Mods	AA0270	24	02	10 235

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 10: Fixed Wing

A11300 - Utility F/W Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	2	2	-	2	1	1	2	-	0	8
Gross/Weapon System Cost (\$ in Millions)	250.148	-	14.572	18.639	-	18.639	15.730	16.166	54.136	0.825	0.000	370.216
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	250.148	-	14.572	18.639	-	18.639	15.730	16.166	54.136	0.825	0.000	370.216
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	250.148	-	14.572	18.639	-	18.639	15.730	16.166	54.136	0.825	0.000	370.216

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

 Initial Spares (\$ in Millions)
 -</td

#### **Description:**

The budget line covers the acquisition of Army fixed wing aircraft to include the procurement of utility fixed wing aircraft to support Operational Support Airlift (OSA) requirements, Special Electronic Mission Aircraft (SEMA), Special Mission Aircraft (Utility), and training. This budget line also provides for the acquisition of new commercial-off-the shelf, non-developmental fixed wing aircraft systems.

Item Sche	dule		Р	rior Year	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A11300 - Utility F/W Aircraft	P5, P5A, P21		-	-	-	-	-	-	7,286.000	2	14.572	9,319.500	2	18.639	-	-	-	9,319.500	2	18.639
Total Gross/Weapon System Cost					250.148			-			14.572			18.639			-			18.639

\*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.

#### Justification:

FY13 Base procurement dollars in the amount of \$18.639 million supports the procurement of (2) fixed wing aircraft (ATEC T-34 Replacement) and associated military modifications.

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 A11300 - Utility F/W Aircraft Army

Exhibit P-5, Cost	t An	alysis:	PB 2013	Army											Date: Fe	ebruary 2	012		
Appropriation / E 2031A / BA 1 / BS			vity / Bı	ıdget Sı	ub Activ	ity:		ine Item 00 - Utility							Name, L	menclat OODIC): - Utility F	•		r, Item
		Resou	ırce Suı	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 201	з осо	FY 201	3 Total
Procurement Quantity	(Ead	ch)							-		-		2		2		-		2
Gross/Weapon Syster	n Co	st (\$ in Mi	llions)						-		-		14.572		18.639		-		18.639
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	n Millions)							-		-		14.572		18.639		-		18.639
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		_
Total Obligation Author	ority (	\$ in Millior							-		-		14.572		18.639		-		18.639
				e followina	Resource S	ummary row	s are for i	nformational p	ourposes on	lv The corre	espondina	budaet reaue	sts are doci	ımented els	ewhere )				
Initial Spares (\$ in Mill	lions'	)							-	.,	-	9	_		-		_		_
Gross/Weapon Syster		<u></u>	n Thousar	nds)					-		-	7.	286.000	9	,319.500		-	9	9,319.500
			Prior Year			FY 2011			FY 2012		F	Y 2013 Ba		1	Y 2013 O	00	F	Y 2013 Tot	,
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost		Total Cost (\$ M)	Unit Cost		Total Cost (\$ M)	Unit Cost		Total Cost (\$ M)		Quantity (Each)	Total Cost		Quantity (Each)	Total	Unit Cost		Total Cost
Flyaway Cost																			
Recurring Cost	<u> </u>							-											
† Fixed Wing Aircraft Procurement		-	-	-	-	-	0.00	6,886.000	2	13.772	7,086.00	0 2	14.172	-	-	0.000	7,086.000	2	14.172
Other Costs		-	-	-	-	-	0.00	0 -	-	0.800	-	-	4.467	-	-	0.000	-	-	4.467
Total Recurring Cost				0.000			0.00	0		14.572			18.639			0.000			18.639
Total Flyaway Cost				0.000			0.00	0		14.572			18.639			0.000			18.639
Gross Weapon System Cost				-			-			14.572			18.639			-			18.639

Remarks:

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2

Exhibit P-5A, Budget Procurement History and Planning: Pl	B 2013 Army	Date: February 2012
1	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A11300 - Utility F/W Aircraft	A11300 - Utility F/W Aircraft

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

Remarks:

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P-1 Line #1

Exhibi	it P-21	l, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012	2			
		<b>on / Bu</b> o 1 / BSA		Activit	ty / B	udge	t Sub	Act	ivity:		<b>P-1</b> L		<b>tem N</b> Utility											-	nencla Utility			aft		
		Cost Elem (Units in Ea								F	iscal Y	ear 201	3										Fiscal Y	ear 201	14					
				ACCEP	BAL	UE TO THE TOTAL TO THE TOTAL T															Calen	dar Yea	r 2014							
О				PRIOR		О	N	D	J	F	M A M J J A S O N									D	J	F	М	A	М	J	J	Α	s	В
C MFR	-	0550,405		TO 1	OF 1	C	0	E	A	E		A P A U U U E							O V	E	A	E	A	P	A	U	U	U	E	A
O Ref#		SERVICE <sup>1</sup>	1 '	ОСТ	ОСТ	l I	V	С	N	В	R	R	Y	N	L	G	P	ı	V	С	N	В	R	R	Y	N	L	G		
Fixed Wi	ing Aircr	aft Procurer	nent																											
1	2012	ARMY	2	0	2	A -	-	-	-	-	-	-	-	1	-	1														
1	2013	ARMY (1)	2	0	2	-	-	-	A -	-	-	-	-	-	-	-	1	-	1											
						0	N	D	J	F	М	A	М	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	
						C	V V	E	A N	E B	A R	P R	A Y	U N	U	U G	E P	C T	O V	E C	A N	E B	R	P R	A Y	U N	U L	U G	P	

LI A11300 - Utility F/W Aircraft Army

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Page 4 of 5

P-1 Line #1

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A11300 - Utility F/W Aircraft	A11300 - Utility F/W Aircraft

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LE	EADTIME (Months	s)		
MF	R					Init	ial			Reo	rder	
Re					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	Hawker Beech - Wichita KS	1	4	4	0	12	8	20	0	3	8	11

LI A11300 - Utility F/W Aircraft Page 5 of 5 Army

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>(1)</sup>BASE

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 10: Fixed Wing

A02700 - C-12 CARGO AIRPLANE

•		E)/ 00/10								
FY 201	1 FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
-	2 -	-	-	-	-	-	-	-	0	2
227 34.6	- 60	-	-	-	-	-	-	-	0.000	250.887
-   -	-	-	-	-	-	-	-	-	-	-
227 34.6	- 00	-	-	-	-	-	-	-	0.000	250.887
-   -	-	-	-	-	-	-	-	-	-	-
227 34.6		-	-	-	-	-	-	-	0.000	250.887
.2	.227 34.66 34.66 - 227 34.66	2 - .227 34.660 -  .227 34.660 - 	2 .227 34.660 .227 34.660 .227 34.660	2	- 2	2	- 2	- 2	- 2	- 2 0 .227 34.660 0.000 0.000 - 227 34.660 0.000 

#### **Description:**

The C-12 fixed wing aircraft platform hosts a number of Army Intelligence, Surveillance and Reconnaissance Surveillance and Target Acquisition (ISR/RSTA) sensor systems that support irregular warfare in Overseas Contingency Operations (OCO). Included in those systems are Red Ridge, Guardrail Common Sensor (GRCS), Aerial Reconnaissance Multi Sensor (ARMS) (Iraq), the Medium Altitude Reconnaissance and Surveillance Systems (MARSS) (Iraq and Afghanistan), and Constant Hawk (Afghanistan). The ARMS system is composed of B-200 (C-12) aircraft equipped with imagery sensors, specialized communications intelligence (COMINT) sensors, and an array of line of sight and beyond line of sight communications equipment. The aircraft were fielded to Operation Iraqi Freedom (OIF) in FY06 and have been providing daily support to the Task Force Observe, Detect Identify, Neutralize (TF ODIN) commander. Constant Hawk (CH) in Afghanistan is hosted on a King Air 350 (C-12) aircraft. CH is a persistent surveillance wide field of view airborne intelligence, surveillance and reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance and forensic force protection mission. CH uses high resolution Electro Optic (EO) cameras mounted on manned aircraft to provide persistent surveillance of a designated Named Area of Interest (NAI). The MARSS aircraft are primarily King Air 300's (C-12 variant) equipped with numerous sensors to include imagery and COMINT payloads. They also include several line-of-sight and beyond line of signt communications systems and on board (manned) processing of the imagery and COMINT. The Enhanced MARSS (EMARSS) program provides additional MARSS systems based on a King Air 350 Extended Range (ER) aircraft. Laser Detection and Ranging (LIDAR) is a persistent surveillance AISR system.

		_																		
Item Sche	edule		P	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A02700 - C-12 CARGO AIRPLANE	P5, P5A, P21		-	-	-	-	2	34.660	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					216.227			34.660			-			-			-			-

\*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.

#### lustification:

No FY13 Base or OCO procurement dollars requested.

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Page 1 of 5 P-1 Line #2

Exhibit P-5, Cos	t Ar	alysis:	PB 2013	Army										I	Date: Fe	ebruary 2	012		
Appropriation / 2031A / BA 1 / B			vity / Bu	ıdget Sı	ıb Activ	ity:	1	<b>ne Item</b> 10 - C-12			ANE				Name, D	menclat OODIC): - C-12 C	•		
		Resou	ırce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 201	3 ОСО	FY 201	3 Total
Procurement Quantity	y (Ea	ch)							-		2		-		-		-		-
Gross/Weapon Syste	m Cc	st (\$ in Mi	llions)						-		34.660		-		-		-		-
Less PY Advance Pro	ocure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1	) (\$ ir	n Millions)							-		34.660		-		-		-		-
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Auth	ority (	(\$ in Millior	ns)						-		34.660		-		-		-		-
			(Th	e following	Resource S	ummary row	s are for in	formational p	ourposes on	ly. The corre	esponding	budget reque	sts are doci	ımented els	ewhere.)		,		
Initial Spares (\$ in Mi	llions	)							-		-		-		-		-		-
Gross/Weapon Syste	m Ur	it Cost (\$ i	n Thousar	nds)					-		-		-		-		-		-
		F	Prior Years	S		FY 2011			FY 2012			FY 2013 Ba	se	F	Y 2013 O	CO	F	Y 2013 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 Cos	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost										1		'	'	'				1	
Recurring Cost																			
† LIDAR Aircraft Procurement		-	-	-	7,686.000	2	15.371	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Costs		-	-	-	-	-	19.289	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total Recurring Cost				0.000			34.660			0.000			0.000			0.000			0.000
Total Flyaway Cost				0.000			34.660			0.000			0.000			0.000			0.000
Gross Weapon System Cost				-			34.660			-			-			-			-

Remarks:

**UNCLASSIFIED** 

Army

LI A02700 - C-12 CARGO AIRPLANE

Exhibit P-5A, Budget Procurement History and Planning:	PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A02700 - C-12 CARGO AIRPLANE	A02700 - C-12 CARGO AIRPLANE
_		

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†LIDAR Aircraft Procurement		2011	Hawker Beech / Wichita KS	SS/FFP	Redstone Arsenal, AL	Jun 2011	Jul 2011	2	7,686.000	N		May 2011

#### Remarks:

The reason we took delivery of 2 LIDAR aircraft in one month is: "The Prime Contractor (Hawker Beech Corporation) accepted program risk in their commercial production line and agreed to an early delivery of two King Air 350ER series aircraft within one month of contract award to meet contingency operations for Operation Enduring Freedom requiring a Quick Reaction Capability (QRC) of the sensor system. Normal production times are nine months."

Exhi	bit P-2	21, I	Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			/ <b>Buc</b> / BSA		Activi	ty / B	udge	t Sub	o Acti	vity:						<b>nclat</b> 30 Al		ANE									ature: CARG		IRPL/	NE	
			ost Eleme Units in Ea								F	iscal Y	ear 201	1										Fiscal Y	ear 201	2					
						BAL								C	alendar	Year 20	11								Calen	dar Yea	ır 2012				
O C MF O Re		' SE	ERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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 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	A U G	S E P	B A L
LIDAR	Aircraft	Proc	urement		1																			-	1						
1	201	1 A	RMY	2	0	2	-	-	-	-	-	-	-	-	Α -	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	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	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A02700 - C-12 CARGO AIRPLANE	A02700 - C-12 CARGO AIRPLANE

		PRODUC	CTION RATES (Un	its/Year)			F	ROCUREMENT L	EADTIME (Months	s)		
MFF	र					Init	ial			Reo	rder	
Ref					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	Hawker Beech - Wichita KS	1	5	18	0	8	1	9	0	0	0	0

#### Remarks:

Delivery time is based on anticipated commercial production line.

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<sup>‡</sup> Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents: 03072	04A, 0305219 <i>i</i>	4
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	29	29	19	-	19	15	15	-	-	0	107
Gross/Weapon System Cost (\$ in Millions)	439.650	455.851	550.798	518.088	-	518.088	518.460	232.321	-	-	0.000	2,715.168
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	439.650	455.851	550.798	518.088	-	518.088	518.460	232.321	-	-	0.000	2,715.168
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	439.650	455.851	550.798	518.088	-	518.088	518.460	232.321	-	-	0.000	2,715.168
(The following the following t	 Iowina Resource	Summary rows	are for informa	tional nurnoses	only The corre	espondina huda	et reguests are	documented el	sewhere )		•	

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	13.300	13.080	16.000	17.501	-	17.501	24.821	11.207	-	-	0.000	95.909
Gross/Weapon System Unit Cost (\$ in Thousands)	-	15,719.000	18,993.035	27,267.790	-	27,267.790	34,564.000	15,488.067	-	-	0.000	25.375

#### **Description:**

The production MQ-1C Gray Eagle Unmanned Aircraft System (UAS) has changed based on new Army guidance from a Company sized unit equipped with (12) Unmanned Aircraft (UA) and associated support equipment to balanced Platoons, each capable of operating independently with (4) aircraft. Each will be equipped with a Standard Equipment Package (SEP), Ground Equipment and the following payloads: Electro-Optical/Infrared, Laser Range Finder/Laser Designator (EO/IR/LRF/LD), communications relay, and up to four (4) HELLFIRE Missiles. The SEP includes a communications relay package, Identify Friend or Foe (IFF) equipment and Air Traffic Control and tactical radios. The ground equipment per Platoon includes: two (2) Ground Control Stations (GCS-V3), two (2) Ground Data Terminals (GDTs), one (1) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), one (1) Portable Ground Control Stations (PGCS), one (1) Portable Ground Data Terminal, an Automated Take Off and Landing System (ATLS), two (2) Tactical Automatic Landing Systems (TALS), and ground support equipment.

Ground Based Sense and Avoid (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.

Item Sche	dule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	′ 2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	CD	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	Unit Cost	Qty (Each)	Total Cost
A00005 - MQ-1 UAV	P5, P5A, P21		-	-	-	15,719.000	29	455.851	18,993.035	29	550.798	27,267.790	19	518.088	-	-	-	27,267.790	19	518.088
Total Gross/Weapon System Cost					439.650			455.851			550.798			518.088			-			518.088

\*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.

#### Justification:

FY2013 Gray Eagle Base funding of \$518.088 million procures (19) Aircraft, (8) Universal Ground Control Stations (UGCS), (8) Ground Data Terminals (GDTs), (4) Portable Ground Data Terminal, (4) Automated Take Off and Landing Systems (ATLS), (4) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), Standard Equipment Package, New Equipment Training, Initial Spares, Training Devices and other ground support equipment. Funds also procure 4 sites of Ground Base Sense and Avoid (GBSAA) equipment.

LI A00005 - MQ-1 UAV
Army

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Page 1 of 9
P-1 Line #3

Exhibit P-40, Budget Item Justification Sheet: PB 20	113 Army			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activit 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BS	t <b>y:</b> SA 10 : Fixed Wing	P-1 Line Item Nomenclatur A00005 - MQ-1 UAV	re:	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B It	tems:	Other Related P	rogram Elements: 0307204A, 0305219A
All COMPO 1 Active				

LI A00005 - MQ-1 UAV
Army

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Page 2 of 9
P-1 Line #3

Exhibit P-5, Cos	t Δr	alvsis:	PB 2013	Army					OLAGO					1	Date: Fe	ebruary 2	012		
Appropriation / I 2031A / BA 1 / BS	Bud	get Acti			ıb Activ	ity:		<b>ne Item</b> 05 - MQ-1		lature:				I	I <b>tem No</b> Name, D	menclat	ure (Iten	n Numbe	r, Item
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	з осо	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		29		29		19		-		19
Gross/Weapon Syster	m Co	st (\$ in Mi	llions)						-	4	55.851	Į	550.798		518.088		-		518.08
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		
Net Procurement (P1)	(\$ ir	Millions)	,						-	4	55.851	Į	550.798		518.088		-		518.08
Plus CY Advance Pro			Millions)						-		-		-		-		-		
Total Obligation Author		•							-	4	55.851	į	550.798		518.088		-		518.08
<u> </u>				e followina	Resource Si	ummary rows	s are for in	formational r	ourposes onl	y. The corre	spondina b	oudget reques	ts are docu	ımented else	ewhere.)				
Initial Spares (\$ in Mil	lions	)	,			,			-		-	3 - 4	-		-		-		
Gross/Weapon Syster			in Thousan	ıds)					-	15,7	19.000	18,9	993.035	27	,267.790		-	27	7,267.79
		•	Prior Years			FY 2011			FY 2012		F	Y 2013 Bas	e E	F'	Y 2013 O	co	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		(\$ K)	(Lacii)	(\$ W )	(\$ K)	(Lacii)	(\$ 101 )	(\$ K)	(Lacii)	(\$ W )	(\$ 17.)	(Lacii)	(\$ W )	(\$ K)	(Lacii)	(\$ W )	(\$ K)	(Lacii)	(\$ 101 )
Recurring Cost															-				
† Aircraft		-	-	-	4,046.000	29	117.339	4,332.000	29	125.618	5,286.000	19	100.429	-	-	0.000	5,286.000	19	100.42
Ground Control Station (GCS)		-	-	-	-	-	48.037	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Portable Ground Control Station (PGCS)		-	-	-	-	-	0.000	772.000	7	5.403	942.000	4	3.768	-	-	0.000	942.000	4	3.76
Universal Ground Control Station (UGCS)		-	-	-	-	-	0.000	3,327.000	14	46.577	4,060.000	8	32.478	-	-	0.000	4,060.000	8	32.47
Ground Data Terminal (GDT)	I	-	-	-	-	-	0.000	2,353.000	14	32.940	2,871.000	8	22.969	-	-	0.000	2,871.000	8	22.96
Portable Ground Data Terminal (PGDT)		-	-	-	-	-	0.000	1,667.000	7	11.670	2,034.000	4	8.137	-	-	0.000	2,034.000	4	8.13
Automatic Take-Off & Landing Sys (ATLS)		-	-	-	-	-	0.000	,	7	8.803	1,535.000		6.138	-	-	0.000	1,535.000		
Satellite Ground Data Terminal (SGDT)		-	-	-	-	-	0.000	<u> </u>	7	16.903	2,947.000		11.786		-	0.000			
Ground Support Equipment Kits (GSE)		-	-	-	-	-	0.000	,	7	17.105	2,974.000		11.896		-	0.000			
Other Hardware	+	-	-	-	-	-	167.771	-	-	29.172	-	-	30.149	-	-	0.000	-	-	30.14
Engineering Change Order		-	-	-	-	-	13.901	-	-	6.067	-	-	15.830		-	0.000		-	15.83
Non-Recurring Production		-	-	-	-	-	0.000		-	15.318	-	-	22.700		-	0.000		-	22.70
Initial Spares		-	-	-	-	-	41.624	-	-	94.983	-	-	66.231	-	-	0.000	-	-	66.23

LI A00005 - MQ-1 UAV
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P-1 Line #3

Exhibit P-5, Cost Analysis: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 1 / BSA 10

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

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

Name, DODIC): A00005 - MQ-1 UAV

														1	100000				
		ı	Prior Years	5		FY 2011			FY 2012		F`	Y 2013 Bas	se	F`	Y 2013 OC	0	F	/ 2013 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)
Government Furnished Equipment (GFE)		-	-	-	-	-	13.539	-	-	17.635	-	-	11.775	-	-	0.000	-	-	11.77
Program Management		-	-	-	-	-	6.626	-	-	20.227	-	-	20.569	-	-	0.000	-	-	20.569
Test and Evaluation		-	-	-	-	-	8.464	-	-	17.968	-	-	18.746	-	-	0.000	-	-	18.74
Transportation		-	-	-	-	-	0.044	-	-	0.030	-	-	0.046	-	-	0.000	-	-	0.04
Operational Site Activation		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Government Agencies		-	-	-	-	-	10.645	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Software		-	-	-	-	-	10.018	-	-	16.810	-	-	13.956	-	-	0.000	-	-	13.95
Training Devices		-	-	-	-	-	17.843	-	-	42.346	-	-	45.422	-	-	0.000	-	-	45.42
NET Training		-	-	-	-	-	0.000	-	-	7.175	-	-	21.888	-	-	0.000	-	-	21.88
Support Equipment (Maint Shelter)		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Modifications		-	-	-	-	-	0.000	-	-	10.158	-	-	15.494	-	-	0.000	-	-	15.49
Other Weapons System		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Ground Base Sense and Avoid (GBSAA)		-	-	-	-	-	0.000	-	-	7.890	-	-	37.681	-	-	0.000	-	-	37.68
Total Recurring Cost				0.000			455.851			550.798			518.088			0.000			518.08
Total Flyaway Cost				0.000			455.851			550.798			518.088			0.000			518.08
Gross Weapon System Cost				-			455.851			550.798			518.088			=			518.088

Remarks:

Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A00005 - MQ-1 UAV	A00005 - MQ-1 UAV

Cost Elements († indicates the presence of a P-21)	0 0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Aircraft		2010	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	May 2011	Dec 2011	26	5,180.000	Y		
†Aircraft		2011	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Mar 2011	Dec 2012	29	4,046.000	Y		
†Aircraft		2012	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Apr 2012	Jan 2014	29	4,332.000	Y		
†Aircraft		2013	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	АМСОМ	Apr 2013	Jan 2015	19	5,286.000	Y		

Remarks:

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E	xhibit	P-21	, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / Bud 1 / BSA		Activi	ty / B	udge	t Sub	o Acti	vity:					<b>Nome</b> UAV		ture:								<b>Nom</b> 005 - I						
			Cost Elem (Units in Ea								F	iscal Y	ear 201	12									F	iscal Y	ear 201	3					
						BAL								Ca	alendar	Year 20	)12								Calend	dar Yea	r 2013				
0 0		FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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	J U L	A U G	S E P	B A L
_	rcraft		02.11.102				•	-								_				-			_					_			
	1	2010	ARMY	26	0	26	-	-	2	2	2	2	2	2	2	2	2	2	3	3		_									
	1	2011	ARMY	29	0	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	2	2	2	2	2	4
	1	2012	ARMY	29	0	29	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
	1	2013	ARMY (1)	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	19
							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	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 T	A U G	S E P	

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E	khibit	P-21	, Budge	et Pro	duct	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / Bud 1 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:					<b>Nome</b> UAV		ure:								<b>Nom</b> 005 - 1						
			Cost Elem (Units in Ea								F	iscal Y	ear 201	4									F	iscal Y	ear 201	5					
000		FY	SERVICE <sup>‡</sup>	PROC	ACCEF PRIOR TO 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	Year 20 J U L	014 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	dar Yea M A Y	r 2015 J U N	J U L	A U G	S E P	B A L
	rcraft						-							1 -	1								_			-					
	1	2010	ARMY	26	26	0																									
	1	2011	ARMY	29	25	4	2	2																							
	1	2012	ARMY	29	0	29	-	-	-	3	3	3	3	3	2	2	2	2	2	2	2										
	1	2013	ARMY (1)	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	1	1	3
	•	•	,	•			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	

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Exhibit	P-21	l, Budge	et Pro	ducti	on So	ched	ule: F	PB 20	13 Aı	my													Date	: Feb	ruary	2012				
		<b>on / Buc</b> 1 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:			_		<b>Nome</b> UAV		ure:							1		n <b>encl</b> a MQ-1					
		Cost Eleme								F	Fiscal Y	ear 201	6									ı	iscal Y	ear 201	7					
					BAL								Ca	alendar	Year 20	16								Calen	dar Yea	r 2017				
MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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 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	I I
ircraft										1			I							I						I				
1	2010	ARMY	26	26	0																									
1	2011	ARMY	29	29	0																									
1	2012	ARMY	29	29	0				_																					
1	2013	ARMY (1)	19	16	3	1	1	1																						
						100	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	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	A U G	S E P	

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Item Nomenclature:
2031A / BA 1 / BSA 10	A00005 - MQ-1 UAV	A00005 - MQ-1 UAV

		PRODUC	CTION RATES (Un	its/Year)	PROCUREMENT LEADTIME (Months)  Initial Reorder									
MFR						Init	ial			Reo	rder			
Ref	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	GENERAL ATOMICS / ASI - SAN DIEGO	12	36	120	8	5	21	26	8	5	21	26		

#### Remarks:

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>(&#</sup>x27;)BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 10: Fixed Wing

A00010 - RQ-11 (RAVEN)

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents: 03752	04A, 0375232	.A
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	312	900	234	-	234	189	204	153	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	84.340	37.467	86.062	25.798	-	25.798	23.434	25.342	25.356	26.675	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	84.340	37.467	86.062	25.798	-	25.798	23.434	25.342	25.356	26.675	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	84.340	37.467	86.062	25.798	-	25.798	23.434	25.342	25.356	26.675	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)	*		

(The follow	wing Resource	Summary rows	are for informat	tional purposes	only. The corre	esponding budge	et requests are	documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	37.500	21.088	0.034	0.035	-	0.035	0.035	0.036	0.036	-	Continuing	Continuing
Gross/Weapon System Unit Cost (\$ in Thousands)	-	120.087	95.624	110.248	-	110.248	123.989	124.226	165.726	-	Continuing	Continuing

#### **Description:**

The Small Unmanned Aircraft System (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 (RSTA) capability through the ability to view real-time Full Motion Video (FMV) and sensor data via the system ground control station. Other compatible receivers, such as the One Station Remote Video Terminal (OSRVT) and appropriately equipped manned platforms may also receive the SUAS products. A SUAS includes three aircraft that must be launched by hand or by some other means that does not require an improved launch/recovery location. In addition to the aircraft, the system contains ground support 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 a gimbaled payload, recently identified in Operation Enduring Freedom as a critical operational enabler. The Gimbal Payload Retrofit will procure two payloads per three Raven aircraft. New equipment training and fielding logistics, and program management costs are also included. Beginning in FY2012 production of RAVEN air vehicles will include gimbal payloads. This increased the air vehicle unit cost from \$18 thousand to \$34 thousand. SUAS also received a plus-up of \$15.3 million of FY2012 OCO to procure approximately 231 war replacement air vehicles (77 SUAS systems).

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	312	900	143	-	143
	Total Obligation Authority	37.467	86.062	15.747	-	15.747
Army National Guard	Quantity	-	-	73	-	73
	Total Obligation Authority	-	-	8.041	-	8.041
Army Reserve	Quantity	-	-	18	-	18
	Total Obligation Authority	-	-	2.010	-	2.010

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Date: February 2012 Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 10: Fixed Wing A00010 - RQ-11 (RAVEN)

			-									•								
ID Code (A=Service Read	ly, B=Not Service Rea	ady) :				Program	Element	s for Cod	e B Items	s:			Othe	er Related	d Progran	n Elemei	nts: 0375	204A, 037	5232A	
Item Scho	edule		P	Prior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A00010 - RQ-11 (RAVEN)	P5, P5A, P21		-	-	-	120.087	312	37.467	95.624	900	86.062	110.248	234	25.798	-	-	-	110.248	234	25.798
Total Gross/Weapon System Cost					84.340			37.467			86.062			25.798			-			25.798

\*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.

FY2013 Base funding of \$25.801 million will procure 78 Small Unmanned Aircraft Systems (234 Air Vehicles with gimbal payload ECP); Initial Spares Packages (ISP) and Other Hardware Costs including Ground Control Stations (GCS), Remote Video Terminal (RVT), and Vampire License; Vampire Installation Trainers; and 34 Gimbaled Payloads.

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Exhibit P-5, Cos	t Ar	alveie:	DR 2013	Army					CLAGO						Dato: Fo	ebruary 2	<b>012</b>		
Appropriation / I 2031A / BA 1 / BS	Bud	get Acti			ub Activi	ity:	1		Nomenc 11 (RAVE					I	I <b>tem No</b> Name, D		ure (Iten	n Numbe	r, Item
		Resou	ırce Sum	mary			·	Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	3 OCO	FY 2013	3 Total
Procurement Quantity	/ (Ea	ch)							-		312		900		234		-		234
Gross/Weapon Syster	m Co	ost (\$ in Mi	Ilions)						-		37.467		86.062		25.798		-		25.798
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		_
Net Procurement (P1)			· · ·						-		37.467		86.062		25.798		-		25.798
Plus CY Advance Pro			Millions)						_		_		_		_		_		
Total Obligation Author									_		37.467		86.062		25.798		_		25.798
		,,		following	Resource Si	ummary row	s are for inf	formational i	nurnoses onl			udget reques		umented else					
Initial Spares (\$ in Mil	lions	)	(,,,,	·······································			2.0.0.101		-	, 00,10	-	g.v	-		-		-		
Gross/Weapon System		_	in Thousand	ds)					_	1	20.087		95.624		110.248		_		110.248
Cross/Weapon Cyster		· ·	Prior Years		1	FY 2011			FY 2012	<u> </u>		Y 2013 Bas		F	Y 2013 O	20	F	Y 2013 Tot	
Cost Elements		•	TIOI TEUIS	Total		112011	Total		112012	Total	<u> </u>	1 2010 Das	Total	<u> </u>	1 2013 0	Total	•	2010 100	Total
(† indicates the presence of a P-5A)	CD	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)
Flyaway Cost					'							'						·	
Recurring Cost																			
† Air Vehicles		-	-	-	17.670	312	5.513	33.954	900	30.559	34.526	234	8.079		-	0.000	34.526	234	8.079
Initial Spares Package (ISP)		-	-	-	-	-	2.409	-	-	7.643	-	-	2.021		-	0.000	-	-	2.021
Other System Hardware		-	-	-	-	-	4.276	-	-	18.841	-	-	4.982		-	0.000	-	-	4.982
Digital Data Link Retrofit		-	-	-	70.242	248	17.420	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Gimbal Payload Retrofit		-	-	-	-	-	0.000	-	-	0.000	30.600	5	0.153	-	-	0.000	30.600	5	0.153
Operator Training		-	-	-	-	-	2.719	-	-	2.220	-	-	0.397	-	-	0.000	-	-	0.397
Engineering Change Orders		-	-	-	-	-	0.000	-	-	15.300	-	-	0.000	-	-	-	-	-	0.000
PUMA		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Government Furnished Equipment (GFE)		-	-	-	-	-	0.700	-	-	2.053	-	-	0.543	-	-	0.000	-	-	0.543
Program Management		-	-	-	-	-	2.775	-	-	4.679	-	-	4.449	-	-	0.000	-	-	4.449
Technical		-	-	-	-	-	0.675	-	-	2.154	-	-	2.354	-	-	0.000	-	-	2.354
Logistics		-	-	-	-	-	0.980	-	-	2.613	-	-	2.820		-	0.000	-	-	2.820
Total Recurring Cost				0.000			37.467			86.062			25.798			0.000			25.798
Total Flyaway Cost				0.000			37.467			86.062			25.798			0.000			25.798
Gross Weapon System Cost				-			37.467			86.062			25.798			-			25.798

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

Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 1 / BSA 10	P-1 Line Item Nomenclature: A00010 - RQ-11 (RAVEN)	Item Nomenclature (Item Number, Item Name, DODIC): A00010 - RQ-11 (RAVEN)
Remarks:		

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	312	900	143	-	143
	Total Obligation Authority	37.467	86.062	15.747	-	15.747
Army National Guard	Quantity	-	-	73	-	73
	Total Obligation Authority	-	-	8.041	-	8.041
Army Reserve	Quantity	-	-	18	-	18
	Total Obligation Authority	-	-	2.010	-	2.010

LI A00010 - RQ-11 (RAVEN) Army

P-1 Line #4

Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A00010 - RQ-11 (RAVEN)	A00010 - RQ-11 (RAVEN)

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Air Vehicles		2011	AERO VIRONMENT / SIMI VALLEY	SS/FFP	AMCOM	Dec 2011	Jan 2012	312	17.670	Y		
†Air Vehicles		2012	AERO VIRONMENT / SIMI VALLEY	SS/FFP	AMCOM	Apr 2012	Jun 2012	900	33.954	Y		
†Air Vehicles		2013	AERO VIRONMENT / SIMI VALLEY	SS/FFP	AMCOM	Dec 2012	Feb 2013	234	34.526	Y		

The FY2012 award date has moved from Dec 2011 to Apr 2012 to incorporate additional OCO funding appropriated. Due to the short production runs this change does not impact the schedule for future award.

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E	xhibit	P-21	, Budge	et Pro	oduct	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / Bud I / BSA		Activi	ty / B	udge	t Sub	Acti	vity:			<b>Line I</b> 010 - I												<b>Nom</b> 10 - F						
			Cost Eleme (Units in Ea								F	iscal Y	ear 201	2									F	iscal Y	ear 2013	3					
						BAL								Ca	lendar `	Year 20	12								Calend	dar Yea	r 2013				
0 0		ACCEP DUE PRIOR AS O N D PROC TO 1 OF 1 C O E OT T V C									F E B	M A R	A P R	M A Y	J U N	n n	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 J	A U G	S E P	B A L
Ai	r Vehicle	es																													,
	1	2011	ARMY	312	2 0	312	-	-	Α -	39	39	39	39	39	39	39	39														
	1	2012	ARMY	900	0	900	-	-	-	-	-	-	Α -	-	113	113	113	113	113	113	113	109									
	1	2013	ARMY (1)	234	0	234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	30	30	29	29	29	29	29	29	
						,	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	N N	U J	A U G	S E P	

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

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 10	A00010 - RQ-11 (RAVEN)	A00010 - RQ-11 (RAVEN)

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LI	EADTIME (Months	s)		
MFR						Init	ial			Reo	rder	
Ref	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	AERO VIRONMENT - SIMI VALLEY	100	750	1500	0	3	4	7	0	3	2	5

#### Remarks:

LI A00010 - RQ-11 (RAVEN)
Army

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>&</sup>lt;sup>(1)</sup>BASE

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 10 : Fixed Wing

A00015 - BCT Unmanned Aerial Veh (UAVS) Incr 1

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	26.415	-	-	-	-	-	-	-	-	0.000	26.415
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	26.415	-	-	-	-	-	-	-	-	0.000	26.415
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	26.415	-	-	-	-	-	-	-	-	0.000	26.415

(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented e	lsewhere.)					
nitial Spares (\$ in Millions)														
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-		

## **Description:**

Brigade Combat Team Unmanned Aerial Vehicle (UAVS) Increment 1

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	26.415	-	-	-	-

#### Justification:

The program has no FY13 funding requirements. Based upon the ADM, dated February 3rd 2011, the Army cancelled this program. Based upon this ADM, the Army withheld this entire budget for the ATR-Raven Program.

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

7.999.500

8.371.419

9.848.700

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

6.019.148

6.070.880

6.420.897

A05001 - Helicopter, Light Utility (LUH)

, ,			,			1 /		, ,				
ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	50	39	34	-	34	31	10	-	-	0	164
Gross/Weapon System Cost (\$ in Millions)	1,069.470	303.544	250.415	271.983	-	271.983	259.514	98.487	85.629	-	0.000	2,339.042
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,069.470	303.544	250.415	271.983	-	271.983	259.514	98.487	85.629	-	0.000	2,339.042
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,069.470	303.544	250.415	271.983	-	271.983	259.514	98.487	85.629	-	0.000	2,339.042
(The foli	owing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	0.600	-	-	-	-	-	-	-	-	-	0.000	0.600
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### Description:

Gross/Weapon System Unit Cost (\$ in Thousands)

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 nongovernmental 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.

7.999.500

Sec	ondary Distrib	utior	n	F	FY 2011	FY 2012		FY 20 Bas				2013 CO			FY 2013 Total	
Army Active	Quantity				11		1			15			-			15
	Total Obligation	Author	rity		66.780		6.421		119	9.992			-			119.992
Army National Guard	Quantity				39		38			19			-			19
	Total Obligation	Author	rity		236.764		243.994		151	1.991			-			151.991
Item Sch	nedule		Prior Yea	rs	FY 2011	FY 2	2012	FY	2013 Ba	se	FY	2013 O	co	F	Y 2013 To	otal
		ID		1		 		 								

Item Sched	lule		P	rior Year	'S		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
			Unit Cost	Qty				Total Cost		Qty			Qty	Total Cost		Qty	Total Cost	Unit Cost	Qty	Total Cost
Item Nomenclature*	Exhibits	CD	(\$ K )	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M)
A05001 - Helicopter, Light Utility (LUH)	P5, P5A, P21		-	-	-	6,070.880	50	303.544	6,420.897	39	250.415	7,999.500	34	271.983	-	-	-	7,999.500	34	271.983

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0.000

14.262

								UNG	CLASS	SIFIED	)									
Exhibit P-40, Bud	dget Item Ju	stifi	cation	Sheet:	PB 201	3 Army									Date	e: Febr	uary 201	12		
<b>Appropriation / E</b> 2031A : Aircraft P							otary				Item No Helicop			y (LUH)						
ID Code (A=Service Read	y, B=Not Service Rea	dy) :				Program	Elemen	ts for Cod	le B Items	S:			Oth	ner Relate	d Progra	m Eleme	ents:			
Item Sche	dule		F	Prior Yea	rs		FY 2011	1		FY 2012	2	FY	2013 B	ase	F	Y 2013 C	СО	FY	2013 To	otal
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
Total Gross/Weapon System Cost					1,069.470			303.544			250.415			271.983			-			271.983
*Item Nomenclature repre	sents Item Numbe	er, DO	DIC, and I	tem Name	for the P40	OA and P5;	Name for	the P18 and	d P23; Mod	ification N	umber and	Modificatio	n Title for	the P3A; Ite	m Numbe	r and Item	Name for th	ne P10.		
defense missions, d	omestic emerge	ncy r	esponses	s and pro	viding mili	tary suppo	ort to civi	l authoritie	es.											

LI A05001 - Helicopter, Light Utility (LUH) Army

Exhibit P-5, Cost	Analy	/sis: l	PB 2013	Army										I	Date: Fe	bruary 2	012		
<b>Appropriation / E</b> 2031A / BA 1 / BS	Budget SA 20	t Acti	vity / Bu	dget Su	ıb Activ	ity:		ne Item    )1 - Helic			/ (LUH)				Name, D	ODIC):		n Numbe t Utility (I	
	R	Resou	rce Sun	nmary				Prior Ye	ars	FY 20 <sup>-</sup>	11	FY 20	12	FY 2013	Base	FY 2013	3 OCO	FY 2013	3 Total
Procurement Quantity	(Each)								-		50		39		34		-		3
Gross/Weapon Syster	n Cost (S	\$ in Mil	lions)						-	3	03.544	2	250.415		271.983		-		271.98
Less PY Advance Pro	curemen	nt (\$ in	Millions)						-		-		-		-		_		_
Net Procurement (P1)	(\$ in Mil	llions)	,						-	3	03.544	2	250.415		271.983		-		271.98
Plus CY Advance Pro	-		Millions)						_		_		_		_		_		_
Total Obligation Autho									_	3	03.544	2	250.415		271.983		_		271.98
Total Obligation / tatile	/π.cy (Ψ			e followina	Resource Si	ummary rows	are for in	formational r	ourposes onl			udget reques		ımented elsi					27 1.00
nitial Spares (\$ in Mill	ions)		1						-	<i>y</i>	-	<u></u>	-		-		-		_
Gross/Weapon Syster	n Unit Co	ost (\$ i	n Thousan	ds)					-	6.0	70.880	6.4	120.897	7	.999.500		-	7	7,999.50
			rior Years			FY 2011	ı		FY 2012	,	F	Y 2013 Bas	e	F	Y 2013 OC	0	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)		it Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost	(	Ψ ( )	(Lacii)	(\$ 101 )	(ψ / ( )	(Lacil)	(\$1017)	(\$11)	(Lacil)	(\$ 101 )	(ψ / ( )	(Lacil)	(\$ W )	(ΦΙΛ)	(Lacii)	(\$ 101 )	(\$17)	(Lacil)	(\$ W)
Recurring Cost		-																	
† Airframes/Includes non-recurring		-	-	-	5,265.000	50	263.233	5,375.000	39	209.615	5,239.000	34	178.139	-	-	0.000	5,239.000	34	178.13
B Kits (MEDEVAC & Hoist)		-	-	-	213.000	14	2.983	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Engineering Changes		-	-	-	-	-	10.549	-	-	13.424	-	-	70.489	-	-	0.000	-	-	70.48
System Engineering & Program Management		-	-	-	-	-	7.382	-	-	7.552	-	-	7.818	-	-	0.000	-	-	7.81
Systems Test & Evaluation		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Engineering Services		-	-	-	-	-	2.467	-	-	2.551	-	-	1.147	-	-	0.000	-	-	1.14
Procedural Trainers		-	-	-	-	-	0.000	+	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Fielding		-	-	-	-	-	16.930	+	-	17.273	-	-	14.390	-	-	0.000	-	-	14.39
Other program Requirements		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Total Recurring Cost				0.000			303.544			250.415			271.983			0.000			271.98
Total Flyaway Cost				0.000			303.544			250.415			271.983			0.000			271.98
Gross Weapon System Cost				-			303.544	<b>!</b>		250.415			271.983			-			271.98
Remarks:											1						1		
Soo	ondary [	Distrib	ution			FY 201	1		FY 201	2		FY 2013 Base			FY 2013 OCO	3		FY 2013 Total	
Sec																			

LI A05001 - Helicopter, Light Utility (LUH) Army

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P-1 Line #6

30

Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 1 / BSA 20	P-1 Line Item Nomenclature: A05001 - Helicopter, Light Utility (LUH)	Item Nomenclature (Item Number, Item Name, DODIC): A05001 - Helicopter, Light Utility (LUH)

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
	Total Obligation Authority	66.780	6.421	119.992	-	119.992
Army National Guard	Quantity	39	38	19	-	19
	Total Obligation Authority	236.764	243.994	151.991	-	151.991

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P-1 Line #6

Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A05001 - Helicopter, Light Utility (LUH)	A05001 - Helicopter, Light Utility (LUH)

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	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		2011	EADS-NA / Columbus, MS	C / FFP	EADS-NA Columbus, MS	Dec 2010	Sep 2011	50	5,265.000			
†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			

Remarks:

Ε	xhibit	t P-2	1, Budge	et Pro	duct	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			<b>on / Buo</b> 1 / BSA :		Activi	ty / B	udge	t Suk	Acti	vity:		1		tem N				y (LU	H)							encla Helico		-	Utility	/ (LUł	 ⊣)
			Cost Elem (Units in Ea								ı	Fiscal Y	ear 201	1									F	iscal Y	ear 201	2					
						BAL								Ca	lendar	Year 20	011								Calen	dar Yea	r 2012				
000	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 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 U	T U	A U G	S E P	0 C T	N O V	D E C	N P C	F E B	M A R	A P R	M A Y	JUN	JUL	A U G	S E P	B A L
Α	irframes	/Includ	es non-recu	rring																											
	1	2011	ARMY	50	0	50	-	-	Α -	-	-	-	-	-	-	-	-	4	4	4	4	4	4	5	4	5	4	4	4		
	1	2012	ARMY	39	0	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	4	35
	1	2013	ARMY	34	0	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
							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	

Exhibit	t P-21	l, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
		<b>on / Buo</b> 1 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:					-	nclat Light	-	y (LUI	H)						_	encla Helico			Utility	/ (LU	JH)
,		Cost Elem (Units in Ea								F	iscal Ye	ear 201	3									F	iscal Y	ear 201	4					
					BAL								Ca	lendar	Year 20	13								Calen	dar Yea	r 2014				
O MFR		SERVICE <sup>1</sup>	PROC	ACCEP PRIOR TO 1 OCT		100	< 0 Z	DEC	N P C	F E B	M A R	A P R	M A Y	N O L	J U	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	Z O C	J U -	O O >	S E P	I
		es non-recu		001	001	•	٧	C	IN	В	K			IN .		G	_ F				l N		K	K	'	IN	-	G	<u> </u>	
1	2011	ARMY	50	50	0																									
1	2012	ARMY	39	4	35	4	4	3	3	3	3	3	3	3	3	3														
1	2013	ARMY	34	0	34	-	-	Α -	-	-	-	-	-	-	-	-	3	3	3	3	2	3	3	3	3	3	3	2		
						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 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	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A05001 - Helicopter, Light Utility (LUH)	A05001 - Helicopter, Light Utility (LUH)

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LE	ADTIME (Months	s)		
MF	R					Init	ial			Reo	rder	
Re	f				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	30	48	60	0	9	5	14	0	2	9	11

#### Remarks:

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05111 - AH-64 Apache Block IIIA Reman

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	16	19	40	-	40	38	37	44	37	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	195.383	400.050	528.742	769.879	-	769.879	589.490	509.305	592.242	491.861	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	69.253	160.237	192.764	-	192.764	107.707	136.997	145.470	159.105	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	195.383	330.797	368.505	577.115	-	577.115	481.783	372.308	446.772	332.756	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	69.253	160.237	192.764	107.707	-	107.707	136.997	145.470	159.105	193.483	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	264.636	491.034	561.269	684.822	-	684.822	618.780	517.778	605.877	526.239	Continuing	Continuing
/Tho fo	Howing Possures	Cummon, rous	ara for informa	tional nurnage	only The corre	onondina huda	of requests are	documented al	oouthoro l			

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	25,003.125	27,828.526	19,246.975	-	19,246.975	15,512.895	13,765.000	13,460.046	13,293.541	Continuing	Continuing

## Description:

Apache Block IIIA (AB3A) 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. AB3A 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. AB3A aircraft enter the fleet in 2012.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	16	19	40	-	40
	Total Obligation Authority	491.034	561.269	684.822	-	684.822
Army National Guard	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-

Item Sch	edule		Р	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	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 (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
A05111 - AH-64 Apache Block IIIA Reman	P5, P5A, P21		-	-	-	25,003.125	16	400.050	27,828.526	19	528.742	19,246.975	40	769.879	-	-	-	19,246.975	40	769.879
Total Gross/Weapon System Cost					195.383			400.050			528.742			769.879			-			769.879

**UNCLASSIFIED** Page 1 of 7

	ONGE	TOO!! ILD	
Exhibit P-40, Budget Item Justification S	neet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget 2031A: Aircraft Procurement, Army / BA 1:			Nomenclature: 64 Apache Block IIIA Reman
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B	Items:	Other Related Program Elements:
*Item Nomenclature represents Item Number, DODIC, and Iter	n Name for the P40A and P5; Name for the P18 and P2	3; Modification Number an	and Modification Title for the P3A; Item Number and Item Name for the P10.
Justification: FY13 Base procurement dollars in the amount of \$68	4.822 Million supports Advance Procurement, 40	) Full Rate Production (	(FRP) AH-64 Apache Block IIIA Reman aircraft and associated support.
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) into	to two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64
COMPO 1 Active and COMPO 2 National Guard. In	FY16, 24 aircraft are procured to support NGB.		
The current AH-64D Block III Remanufacture Acquis	tion Program Baseline procurement objective is	634 aircraft with an esti	timated total procurement cost of \$10,289.4M.

LI A05111 - AH-64 Apache Block IIIA Reman

Army

								UN	CLASS	SIFIED									
Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army											Date: Fe	ebruary 2	012		
Appropriation / I 2031A / BA 1 / BS			ivity / Bu	ıdget Sı	ub Activ	ity:			<b>Nomenc</b> 34 Apach		IIA Rem	nan			Name, L	omenclato DODIC): - AH-64 /	•		
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 2013	3 OCO	FY 201	3 Tota
Procurement Quantity	/ (Ea	ch)							-		16		19		40		-		4
Gross/Weapon Syste	m Co	ost (\$ in Mi	llions)						-	2	00.050	5	528.742		769.879		-		769.87
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		69.253	1	160.237		192.764		-		192.76
Net Procurement (P1)	) (\$ i	n Millions)							-	3	30.797	3	368.505		577.115		-		577.11
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-	1	60.237	-	192.764		107.707		-		107.70
Total Obligation Author	ority	(\$ in Million	ns)						-	4	91.034	5	561.269		684.822		-		684.82
			(Th	e following	Resource S	ummary row	s are for inf	ormational p	ourposes onl	ly. The corre	sponding bu	udget reques	ts are docu	umented els	ewhere.)		'		
Initial Spares (\$ in Mil	lions	)							-		-		-		-		-		-
Gross/Weapon Syste	m Ur	nit Cost (\$	in Thousan	ıds)					-	25,0	03.125	27,8	328.526	19	,246.975		-	19	9,246.97
		ı	Prior Years	\$		FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 O	СО	F'	Y 2013 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	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost	+	(ψ / ( )	(Edon)	(\$ 111 )	(\$7.7)	(Edon)	(\$ 111 )	(ψ / ( )	(Eddin)	(\$107)	(\$7.7)	(Eddin)	(\$ 111 )	(ψ / ( )	(Eddin)	(\$107)	(\$11)	(Edon)	(\$101)
Recurring Cost																			
† CFE		-	-	-	8,277.000	16	132.425	9,237.000	19	175.509	9,452.000	40	378.107	-	-	0.000	9,452.000	40	378.1
GFE	$\perp$	-	-	-	3,678.000	16	58.851	3,585.000	19	68.115	4,069.000	40	162.763		-	0.000	4,069.000	40	
Engineering Change Orders (ECO)		-	-	-	-	-	4.424	-	-	5.583	-	-	10.384	-	-	0.000	-	-	10.38
Non-Recurring Costs		-	-	-	-	-	100.822	-	-	32.282	-	-	9.602	-	-	0.000	-	-	9.6
Support Equipment		-	-	-	-	-	42.387	-	-	75.703	-	-	90.176		-	0.000	-	-	90.17
Other Costs	+	-	-	-	-	-	57.007	-	-	165.055	-	-	104.036		-	0.000	-	-	104.0
Initial Spares  Total Recurring Cost	+	-	-	0.000	-	-	4.134	-	-	6.495 528.742	-	-	769.879		-	0.000	-	-	769.8
Total Flyaway Cost	+			0.000			400.050			528.742			769.879			0.000			769.8
Gross Weapon System				-			400.050			528.742			769.879			-			769.87
Remarks:																			
	Secondary Distribution FY								FY 201	2		FY 2013 Base	}		FY 201 OCO	3		FY 2013 Total	
Sec	ona										_						1		
Sec Army Active	Qua	•						16		1	9		4	10		-			

LI A05111 - AH-64 Apache Block IIIA Reman Army UNCLASSIFIED Page 3 of 7

P-1 Line #7

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 1 / BSA 20

P-1 Line Item Nomenclature:
A05111 - AH-64 Apache Block IIIA Reman

Reman

Cost Elements († indicates the presence of a P-21)	0 0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†CFE		2011	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2011	Mar 2012	16	8,277.000	N		Jun 2008
†CFE		2012	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Oct 2011	Oct 2012	19	9,237.000	N		Jun 2008
†CFE		2013	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Oct 2012	Oct 2013	40	9,452.000	N		Jul 2012

Remarks:

opr					uct	iuli 3	cnea	uie: F	B 20	13 Ar	my													Date	: Feb	ruary	2012				
		on / Bud 1 / BSA		t Ac	ctivi	ty / B	udge	t Sub	Acti	vity:		<b>P-1</b> L A051	_					IIIA F	temar	1				A05 <sup>2</sup>					Block I	IIA	
											F	iscal Y	ear 201	2									F	iscal Y	ear 201	3					
						BAL								Ca	lendar	Year 20	12								Calen	dar Yea	r 2013				
R f#	FY	SERVICE <sup>‡</sup>		C P	RIOR TO 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	N U J	J U	A U G	S E P	B A L
		J.						-											-		-										
2	2011	ARMY		16	0	16	-	-	-	-	-	2	1	2	2	3	3	3													
2	2012	ARMY		19	0	19	Α -	-	-	-	-	-	-	-	-	-	-	-	3	1	1	1	2	2	2	2	2	1	1	1	
2	2013	ARMY (1)	4	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	4
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U	A U G	S E P	
	f #	2011 2012	(Units in Each of the Control of the	# FY SERVICE <sup>‡</sup> QT    2011   ARMY	(Units in Each)  FR FY SERVICE <sup>‡</sup> PROC QTY  2011 ARMY 16 2012 ARMY 19	(Units in Each)  ACCEF PRIOR TO 1 OCT  2011 ARMY 16 0 2012 ARMY 19 0	(Units in Each)    Continue	(Units in Each)    Columbia   Col	(Units in Each)    Columbia	(Units in Each)  RR FY SERVICE <sup>‡</sup> PROC TO 1 OCT T V C    2011   ARMY	(Units in Each)    Column	(Units in Each)    Columbia	(Units in Each)    Columbia	(Units in Each)    Continue of the continue of	Cunits in Each    Fiscal Year 2012     Ca   Ca   Ca   Ca   Ca   Ca   Ca	(Units in Each)    Calendar   Cal	(Units in Each)    Calendar Year 2012   Calendar Year 2012	Cunits in Each    Fiscal Year 2012     Calendar Year 2012   Calendar Year	Cunits in Each    Fiscal Year 2012     Calendar Year 2012   Calendar Year 2013   Calendar Year 2012   Calendar	Color   Colo	Calendar Year 2012   Calenda	Cunits in Each    Fiscal Year 2012     Calendar Year 2012   Calendar Ye	Cunits in Each    Fiscal Year 2012     Calendar Year 2012   Calendar Year 201	Cost Elements (Units in Each)    ACCEP   DUE   PRIOR   AS   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   F   F   F   F   F   F   F   F	Cost Elements (Units in Each)    ACCEP   DUE   PRIOR   AS   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M   R   R   Y   N   L   G   P   T   V   C   N   B   R   R   X   X   X   X   X   X   X   X	Cunits in Each    Fiscal Year 2012   Fiscal Year 2012   Calendar Year	Cost Elements (Units in Each)  Fiscal Year 2012  Fiscal Year 2012  Calendar Year 2012	Cost Elements (Units in Each)  Fiscal Year 2012  Fiscal Year 2012  Calendar Year 2012  Calendar Year 2013  Calendar Year 2012  Calendar Year 2013  Calendar Year 2013  Calendar Year 2013  Calendar Year 2013  Calendar Year 2012  Calendar Year 2013  Calendar Year 2013	Cost Elements (Units in Each)  Fiscal Year 2012  Fiscal Year 2012  Calendar Year 2012  Calendar Year 2013  Calendar Year 2013  Fig. PROC TO 1 OF 1 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 C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U U E C O E A E A P A U U U U U U U E C O E A E A P A U U U U U U U U U U U U U U U U U	Cost Elements (Units in Each)  Fiscal Year 2012  Fiscal Year 2012  Calendar Year 2012  Calendar Year 2012  Calendar Year 2013  Calendar Year 2012  Calendar Year 2013  Calendar Year 2013	Cost Elements (Units in Each)  Fiscal Year 2012  Fiscal Year 2012  Fiscal Year 2012  Calendar Year 2013  C

													UN	CLA	SSIF	IED														
Exhibi	t P-21	1, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012	2			
		<b>on / Buo</b> 1 / BSA :		Activi	ty / B	udge	t Sub	Acti	vity:	I				<b>Nome</b> 4 Apa		ture: Block	IIIA R	emar	1					111 -	n <b>encla</b> AH-64			Block I	IIA	
		Cost Elem (Units in Ea								F	iscal Ye	ear 201	4										Fiscal \	/ear 201	5					
			ACCEP DUE										Ca	alendar	Year 20	014				1				Calen	dar Yea	r 2015				
O C MFR O Ref#		SERVICE <sup>‡</sup>	PROC	PRIOR TO 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 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 L	A U G	S E P	B A L
CFE			-	l				l	l				l				l	l					-	1						-
1 1	_	ARMY ARMY	16 19	16 19																										
1	2013	ARMY (1)	40	0	40	1	3	4	3	3	3	4	4	4	4	4	3													
				•		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 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	U U	A U G	S E P	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 1 / BSA 20	P-1 Line Item Nomenclature: A05111 - AH-64 Apache Block IIIA Reman	Item Nomenclature: A05111 - AH-64 Apache Block IIIA Reman

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)		
MFR	}					Init	ial			Reo	rder	
Ref #		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	4	8	12	0	11	13	24	0	6	12	18

#### Remarks:

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LI A05111 - AH-64 Apache Block IIIA Reman

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>(1)</sup>BASE

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

Date: February 2012

Brogram Flomente for Code P Itame

Appropriation / Budget Activity / Budget Sub Activity:

ID Code (A. Comina Books B. Not Comina Books)

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05111 - AH-64 Apache Block IIIA Reman Advance Procurement

Other Deleted Drawns Flaments

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements t	or Code B ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	69.253	160.237	192.764	107.707	-	107.707	136.997	145.470	159.105	193.483	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	69.253	160.237	192.764	107.707	-	107.707	136.997	145.470	159.105	193.483	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	69.253	160.237	192.764	107.707	-	107.707	136.997	145.470	159.105	193.483	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

Apache Block IIIA (AB3A) 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. AB3A 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. AB3A aircraft enter the fleet in 2012.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	160.237	192.764	107.707	-	107.707

Item Sche	dule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	′ 2013 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 (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05111 - AH-64 Apache Block IIIA Reman Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					69.253			160.237			192.764			107.707			-			107.707

\*ttem 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 P40A.

Justification:

UNCLASSIFIED
Page 1 of 4

	OII	OLAGGII ILD	
Exhibit P-40, Budget Item Justification She	et: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Society / Budget Society / BA 1 : Amount / BA 1 : Amo	ub Activity: ircraft / BSA 20 : Rotary		Nomenclature: 64 Apache Block IIIA Reman Advance Procurement
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Co	de B Items:	Other Related Program Elements:
FY 13 Base Advance Procurement dollars in the amount	nt of \$107.707 Million supports Advance P	Procurement items in support	ort of the AB3A REMAN program.
Post Nunn McCurdy re-certification (June 2010), this pr Apache Block IIIB New Build (A05133).	rogram was restructured from the single A	H-64 Block III (A05111) int	to two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64
COMPO 1 Active and National Guard. In FY16, 24 airc	craft are procured to support NGB.		

LI A05111 - AH-64 Apache Block IIIA Reman Advance Procurement UNCLA

Exhibit P-10, Advance Procurement Re	quirement	s Analysis	s (page 1 -	Budget Fu	ınding Jus	tification)	PB 2013	Army	Date: Feb	ruary 2012		
Appropriation / Budget Activity / Budge 2031A / BA 1 / BSA 20	et Sub Acti	vity:	P-1 Line It A05111 - A Procureme	AH-64 Apa		IIA Reman	Advance		Name):	AH-64 Apa	(Item Numi che Block I curement	·
ID Code (A=Service Ready, B=Not Service Ready) :			-		MDA	P Code:						
First System (2013) Award Date: July 2009			First System November 20	` '	pletion Date:	:		Interval Bet 1 Months	ween System	is:		
End Item Quantity			Prior Years (Each) 8	<b>FY 2011</b> (Each) 16	<b>FY 2012</b> (Each) 19	FY 2013 (Each)	<b>FY 2014</b> (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	To Complete (Each)	Total (Each)
Cost Element	Procurement Leadtime (Months)	When Rqd (Months)	All Prior Years (\$ M)	FY 2011 (\$ M)	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	To Complete	Total
Other			'	'	'	'			'		'	
Apache Block III - Reman	-	12	69.253	160.237	192.764	107.707	-	-	-	-	-	-
Other Subtotal			69.253	160.237	192.764	107.707	0.000	0.000	0.000	0.000	0.000	0.000
Total Advance Procurement/Obligation Authority		69.253	160.237	192.764	107.707	-	-	-	-	-	-	

	nalysis ( <i>pag</i>	e 2 - Budget Funding Ju	stification): PB 20	013 Army <b>[</b>	Date: Fel	bruary 2012	
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 1 / BSA 20	A051	ine Item Nomenclature: 11 - AH-64 Apache Block urement		nce /	<i>Number</i> ): 405111 -		
D Code (A=Service Ready, B=Not Service Ready) :		MD	AP Code:				1
				FY 2013			
		Unit Cost (\$ K)		<b>Qty</b> (Each)		Total C	Cost Request
End Item			-		-		107.707
				FY 2013			
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)	Fo	Contract orecast Date	Total Cost Request
Other							
Apache Block III - Reman			-		-	Dec 2012	108

LI A05111 - AH-64 Apache Block IIIA Reman Advance Procurement Army

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05133 - AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready) :		Prograi	m Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	1
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	8	2	10	10	11	4	11	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	-	-	-	258.256	71.000	329.256	382.029	533.233	175.139	403.614	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	104.263	-	104.263	146.121	239.328	91.242	11.746	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	-	-	-	153.993	71.000	224.993	235.908	293.905	83.897	391.868	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	104.263	146.121	-	146.121	239.328	91.242	11.746	-	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	-	-	104.263	300.114	71.000	371.114	475.236	385.147	95.643	391.868	Continuing	Continuing
(T)	". ' <b>D</b>			C I	Tt							

(The follo	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)														
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	32,282.000	35,500.000	32,925.600	38,202.900	48,475.727	43,784.750	36,692.182	Continuing	Continuing			

#### **Description:**

Apache Block IIIB (AB3B) New Build is based on the AB3A 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		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost (\$ K)	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
A05133 - AH-64 Apache Block IIIB New Build	P5, P5A, P21		-	-	-	-	-	-	-	-	-	32,282.000	8	258.256	35,500.000	2	71.000	32,925.600	10	329.256
Total Gross/Weapon System Cost					-			-			-			258.256			71.000			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.

#### Justification:

AB3B New Build program will provide 56 aircraft to support an increase in the training base capacity, and begins to establish a new heavy Active Component Combat Aviation Brigade.

FY 13 Base procurement dollars in the amount of \$300.114 Million supports Advance Procurement, 8 Full Rate Production (FRP) AH-64 Apache Block IIIA New Build aircraft and associated support.

OCO supports 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).

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Exhibit P-40, Budget Item Justification She	eet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget S 2031A : Aircraft Procurement, Army / BA 1 : A		<b>P-1 Line Item N</b> A05133 - AH-64	Nomenclature: 1 Apache Block IIIB New Build
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Co		Other Related Program Elements:
	ogram Baseline procurement objective is		total procurement cost of \$2,848.8M. Note that this does not include two AH-64D

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

								OI	CLASS	טבו ווכ									
Exhibit P-5, Cost	t Ar	alysis:	PB 2013	Army											Date: Fe	ebruary 2	012		
Appropriation / E 2031A / BA 1 / BS			ivity / Bu	udget Sı	ıb Activ	ity:		<b>ne Item</b> 3 - AH-6			IIIB Nev	w Build		1	Vame, D	OODIC):	•	n Numbe	
		Resou	ırce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 201	з осо	FY 2013	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		8		2		1
Gross/Weapon Syster	n Co	st (\$ in Mi	llions)						-		-		-		258.256		71.000		329.25
Less PY Advance Pro		•							-		-		-		104.263		-		104.26
Net Procurement (P1)			,						_		_		_		153.993		71.000		224.99
Plus CY Advance Pro			Millions)						_		_		104.263		146.121		_		146.12
Total Obligation Author		•							_		_		104.263		300.114		71.000		371.11
Total Obligation Addition	of ity	(Ψ III IVIIIIOI		e following	Pasourca S	ummanı rov	s are for in	formational r	ournoses on	ly The corre	esponding	budget reques		imented else			7 1.000		57 1.11
Initial Spares (\$ in Mill	ions	)	(111	ie ioliowing i	resource o	uninary row	3 are for in	omational p	-	y. The come	-	budget reques	-	arriented else	-		_		
Gross/Weapon Syster			in Thousar	nds)					_		_		_	32	,282.000	3!	5,500.000	32	2,925.60
<u> </u>			Prior Years			FY 2011			FY 2012		-	Y 2013 Bas		1	Y 2013 O	+		Y 2013 Tota	-
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost		Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cos		Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost																			
Recurring Cost				T						T					T	1	1		
† CFE		-	-	-	-	-	0.000		-	0.000	-,		152.528	.,	2		19,069.000	10	194.46
GFE Engineering Change Orders (ECO)		-	-	-	-	-	0.000		-	0.000	-	- 8	72.938 13.740	10,026.000	-	20.052	9,117.000	10	92.9 17.5
Non-Recurring Costs		-	-	-	-	-	0.000	-	-	0.000	-	-	13.437	-	-	3.694	-	-	17.13
Support Equipment		-	-	-	-	-	0.000	-	-	0.000	-	-	5.613	-	-	1.543	-	-	7.1
Initial Spares		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.0
Total Recurring Cost				0.000			0.000			0.000			258.256			71.000			329.2
Total Flyaway Cost				0.000			0.000			0.000			258.256			71.000			329.2
Gross Weapon System Cost				-			-			-			258.256			71.000			329.2
Remarks:			1	1		I		J						J					

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Exhibit P-5A, Budget Pro	curement H	istory and Planning:	PB 2013 Army				Date: Febr	ruary 2	012	
Appropriation / Budget A 2031A / BA 1 / BSA 20	ctivity / Bud	lget Sub Activity:	<b>P-1 Line Iter</b> A05133 - AH		 ew Build		A05133 - ABuild		u <b>re:</b> Apache Bloc	k IIIB New
Cost Elements	O C		Contract Method	Location	Date of First	Qty	Unit Cost	Specs Avail	Date Revsn	RFP Issue

	0			Contract						Specs		
Cost Elements († indicates the presence of a P-21)	С О	FY	Contractor and Location	Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Avail Now?	Date Revsn Avail	RFP Issue Date
†CFE		2013	The Boeing Company / Mesa	SS/FFP	AMCOM	Jan 2013	Jan 2014	10	19,069.000	N		Jul 2012

Remarks:

Exh	ibit	P-21	l, Budg	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
	ppropriation / Budget Activity / Budget Sub Activity: 031A / BA 1 / BSA 20  Cost Elements									<b>P-1</b> I	_		-			IIIB N	ew B	uild					133 -		ature: 4 Apa		Block	IIIB N	lew		
			Cost Elen (Units in E								ı	Fiscal Y	ear 201	4									ı	Fiscal Y	ear 201	5					
						BAL							Ca	alendar	Year 2	014								Calen	dar Yea	r 2015					
O M	IFR ef#	FY	SERVICE	PROC	ACCEP PRIOR TO 1 OCT		0 C T										F E B	M A R	A P R	M A Y	Z C C	J U L	A U G	S E P	B A L						
CFE				'																											
1		2013	ARMY	10	0	10	10 10																								
	·						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	A U G	S E P	

Exhibit P-21, Budget Production Schedule: PB 2013 Army	· •							
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 1 / BSA 20	P-1 Line Item Nomenclature: A05133 - AH-64 Apache Block IIIB New Build	Item Nomenclature: A05133 - AH-64 Apache Block IIIB New Build						

		PRODUC	CTION RATES (Un	its/Year)			P	EADTIME (Months	ADTIME (Months)						
MF	R					Init	ial			Reo	rder				
Ref	I I				ALT Prior		Total Aft		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	4	8	12	0	11	13	24	0	6	12	18			

#### Remarks:

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05133 - AH-64 Apache Block IIIB New Build Advance Procurement

ID Code (A=Service Ready, B=Not Service Ready):	Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: Other Related Program Elements:													
B	Prior	EV 0044	EV 0040	FY 2013	FY 2013	FY 2013	EV 0044	EV 0045	EV 0040	EV 0047	To	T-4-1		
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total		
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)	-	-	104.263	146.121	-	146.121	239.328	91.242	11.746	-	Continuing	Continuing		
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P1) (\$ in Millions)	-	-	104.263	146.121	-	146.121	239.328	91.242	11.746	-	Continuing	Continuing		
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)	-	-	104.263	146.121	-	146.121	239.328	91.242	11.746	-	Continuing	Continuing		
(The follo	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		

# 

### **Description:**

Apache Block IIIB (AB3B) New Build is based on the AB3A 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		Р	rior Year	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	Ю	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05133 - AH-64 Apache Block IIIB New Build Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					-			-			104.263			146.121			-			146.121

\*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.

#### Justification:

FY13 Base Advance Procurement dollars in the amount of \$146.121 Million supports Advance Procurement items in support of the AB3B New Build program.

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).

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Exhibit P-10, Advance Procurement F	Requirement	s Analysis	s (page 1 -	Budget Fu	nding Jus	tification)	: PB 2013	Army	Date: Feb	ruary 2012		
Appropriation / Budget Activity / Bud 2031A / BA 1 / BSA 20							uild Advan	ce	Name):	AH-64 Apa	(Item Numb che Block II rement	
ID Code (A=Service Ready, B=Not Service Ready) :					MDA	P Code:						
First System (2013) Award Date: July 2009						:		Interval Bet 1 Months	ween System	is:		
End Item Quantity		Prior Years (Each)         FY 2011 (Each)         FY 2012 (Each)         FY 2013 (Each)         FY 2014 (Each)         FY 2015 (Each)         FY 2016 (Each)         FY 2017 (Each)         C           0         0         0         -							To Complete (Each)	Total (Each)		
Cost Element	Procurement Leadtime When Ro (Months) (Months)					FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	To Complete	Total (\$ M)
Other												
Apache Block III New Build	12	-	-	104.263	146.121	-	-	-	-	-	-	
Other Subtotal			0.000	0.000	104.263	146.121	0.000	0.000	0.000	0.000	0.000	0.000
Total Advance Procurement/Obligation Authority		-	-	104.263	146.121	-	-	-	-	-	-	

		ONOLAGON ILD					
Exhibit P-10, Advance Procurement Requirements A	nalysis ( <i>page</i>	e 2 - Budget Funding Ju	stification): PB 2	013 Army	Date: F	ebruary 2012	
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 1 / BSA 20	A0513	ine Item Nomenclature: 33 - AH-64 Apache Block rement		lvance	<i>Numbe</i> A05133	r):	Item Name, Item he Block IIIB New ement
ID Code (A=Service Ready, B=Not Service Ready) :		MD	AP Code:				
				FY 2013			
		Unit Cost (\$ K)		<b>Qty</b> (Each)		Total (	Cost Request
End Item			-		-		146.121
				FY 2013			
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)		Contract Forecast Date	Total Cost Request
Other							
Apache Block III New Build		-   -	-		-	Dec 2012	146

LI A05133 - AH-64 Apache Block IIIB New Build Advance Procurem... Army

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Appropriation / Budget Activity / Budget 2031A : Aircraft Procurement, Army / BA 1  ID Code (A=Service Ready, B=Not Service Ready) :  Resource Summary  Procurement Quantity (Each)  Gross/Weapon System Cost (\$ in Millions)  Less PY Advance Procurement (\$ in Millions)  Net Procurement (P1) (\$ in Millions)  Plus CY Advance Procurement (\$ in Millions)		Program  FY 2011  - 34.600	Rotary n Elements f FY 2012		A05121 -	FY 2013	k II/WRA	er Related P	rogram Elem	ients:							
Resource Summary  Procurement Quantity (Each)  Gross/Weapon System Cost (\$ in Millions)  Less PY Advance Procurement (\$ in Millions)  Net Procurement (P1) (\$ in Millions)	Years - -	FY 2011 - 34.600		FY 2013	FY 2013												
Procurement Quantity (Each) Gross/Weapon System Cost (\$ in Millions) Less PY Advance Procurement (\$ in Millions) Net Procurement (P1) (\$ in Millions)	Years - -	34.600	FY 2012 -														
Gross/Weapon System Cost (\$ in Millions)  Less PY Advance Procurement (\$ in Millions)  Net Procurement (P1) (\$ in Millions)	-	-	-	_		Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total					
Less PY Advance Procurement (\$ in Millions)  Net Procurement (P1) (\$ in Millions)	-	-	_	_	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)	- - -	- 24 600															
	- - -	· · · · · · · · · · · · · · · · · · ·															
Plus CY Advance Procurement (\$ in Millions)	-																
	-	ance Procurement (\$ in Millions)										-					
Total Obligation Authority (\$ in Millions) - 34.600 0.000 34																	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																	
Initial Spares (\$ in Millions)																	
Flyaway Unit Cost (\$ in Thousands)																	
Gross/Weapon System Unit Cost (\$ in Thousands)																	
The AH-64D Longbow Apache aircraft incorporates the Longbow weapon system and provides the US Army with a significant improvement in target acquisition and firepower effectiveness, increasing the survivability, lethality, and adverse weather fighting capabilities of the Apache. Principal aircraft components include the Target Acquisition Designation Sight (TADS) housed in a turret on the nose of the AH-64 and consisting of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the co-pilot/gunner's FLIR. Apache aircraft are armed with the Hellfire Antitank Missile, 2.75 inch rockets, and a 30 mm gun capable of defeating armor. The AH-64D Longbow model is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/Radar Frequency Interferometer (RFI) mission kit, and "Fire and Forget" Longbow HELLFIRE missiles.  The new build aircraft will replace an aircraft destroyed during OND/OEF. It will be in the Block II configuration and will include a new fuselage and materials.																	
Justification: No FY13 funding																	

LI A05121 - AH-64 Block II/WRA Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

A02345 - Kiowa Warrior WRA

**Program Elements for Code B Items: Other Related Program Elements:** ID Code (A=Service Ready, B=Not Service Ready) : **Prior** FY 2013 FY 2013 FY 2013 To **Resource Summary** FY 2012 000Total FY 2014 FY 2015 | FY 2016 FY 2017 Complete Years FY 2011 Base Total Procurement Quantity (Each) 0 25 16 16 Gross/Weapon System Cost (\$ in Millions) 100.800 183.900 183.900 0.000 284.700 Less PY Advance Procurement (\$ in Millions) Net Procurement (P1) (\$ in Millions) 100.800 183.900 183.900 0.000 284.700 Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 100.800 183.900 183.900 0.000 284.700

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budge	et requests are	documented el	sewhere.)				
Initial Spares (\$ in Millions)	itial Spares (\$ in Millions)												
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	11,200.000	-	11,493.750	11,493.750	-	-	-	-	0.000	11.388	

#### **Description:**

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

The OH-58D 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 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.

To replace aircraft lost during Overseas Contingency Operations (OCO) and to return the fleet to the Army Authorized Objective (AAO) of 368 the Army will build Wartime Replacement Aircraft (WRA). These new Kiowa Warriors will be delivered in the OH-58D(R) configuration, including upgrades that are being installed on the fielded fleet.

OCO funding will procure Wartime Replacement Aircraft (in addition to FY 2010-2011 funds identified in OSIP 2-10-01-0118 in Kiowa Warrior AZ2200) for those lost during Overseas Contingency Operations. Bell Helicopter Textron Incorporated is producing cabins which will be delivered to Corpus Christi Army Depot (CCAD). 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.

Item Sche	Item Schedule		Р	rior Yea	or Years FY 2					FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 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	<b>Qty</b> (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
A02345 - Kiowa Warrior WRA	P5, P5A, P21		-	-	-	-	-	-	11,200.000	9	100.800	-	-	-	11,493.750	16	183.900	11,493.750	16	183.900
Total Gross/Weapon System Cost					-			-			100.800			-			183.900			183.900

\*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.

Justification:

Page 1 of 7 P-1 Line #12

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	0110	LAGOII ILD		
Exhibit P-40, Budget Item Justification Sheet: I	PB 2013 Army		Date: February 2012	
Appropriation / Budget Activity / Budget Sub A 2031A: Aircraft Procurement, Army / BA 1: Aircraft		P-1 Line Item Nomen A02345 - Kiowa Warri		
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code	B Items:	Other Related Program Elements:	
FY 2013 OCO Funding in the amount of \$183.900 Million will weight reduction items.	ll continue to build OH-58D(R) Kiowa V	Varrior Wartime Replacement Airc	craft in the most current configuration to include fielded fleet upgrades and	
	kpit airbag system, upgrade of the Co	ntrol Display System, Improved Ma	now this configuration. This effort included the following engineering laster Control Processor Units, installation of the 250-C30R/3 Engine with Fuved Data Modem, and the Embedded GPS/INS.	ıll
In accordance with section 1815 of the FY 2008 National De defense missions, domestic emergency responses and prov			the active and reserve components of the Armed Forces for homeland	

LI A02345 - Kiowa Warrior WRA
Army

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P-1 Line #12

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								0	OLAGO										
Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army											Date: Fe	bruary 2	012		
Appropriation / E 2031A / BA 1 / BS		-	ivity / Bu	ıdget Sı	ıb Activ	ity:		ne Item 15 - Kiow							Name, D	menclat OODIC): - Kiowa \	•		r, Item
		Resou	ırce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	з осо	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		9		-		16		1
Gross/Weapon Syster	m Co	ost (\$ in Mi	llions)						-		-		100.800		-		183.900		183.90
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		
Net Procurement (P1)	(\$ ii	n Millions)							-		-		100.800		-		183.900		183.90
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		
Total Obligation Author	ority	(\$ in Million	ns)						-		-		100.800		-		183.900		183.90
<u> </u>				e followina	Resource Si	ummarv row	s are for in	formational i	purposes on	lv. The corre	spondina b	oudget reques	sts are doci	ımented els	ewhere.)				
Initial Spares (\$ in Mil	lions	)	•					•	-	*	-		-		-		-		
ross/Weapon System Unit Cost (\$ in Thousands)									-		-	11,	200.000		-	11	1,493.750	1.	1,493.75
		·	Prior Years			FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 OC	0	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		V. /	, ,	, ,	. ,	, ,	, ,	. ,	, ,	, ,		1 , ,	, ,	, ,	, ,			. , ,	
Recurring Cost																			
† BHTI - Cabins		-	-	-	-	-	0.000	4,098.000	9	36.878	-	-	0.000	5,092.000	16	81.472	5,092.000	16	81.47
CCAD - Flight Test & Aircraft Acceptance		-	-	-	-	-	0.000	-	-	6.314	-	-	0.000	-	-	8.866	-	-	8.86
GFE / Hardware		-	-	-	-	-	0.000	-	-	53.441	-	-	0.000	-	-	88.758	-	-	88.75
Program Support		-	-	-	-	-	0.000	-	-	4.167	-	-	0.000	-	-	4.804	-	-	4.80
Total Recurring Cost				0.000			0.000			100.800			0.000			183.900			183.90
Total Flyaway Cost				0.000			0.000			100.800			0.000			183.900			183.90
Gross Weapon System Cost				-			-			100.800			-			183.900			183.90
Cost  Remarks:																			

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Exhibit P-5A, Budget Procurement History and Planning: F	PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A02345 - Kiowa Warrior WRA	A02345 - Kiowa Warrior WRA

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†BHTI - Cabins		2012	Bell Helicopter Textron Inc / Fort Worth, Texas	C / FFP	AMCOM, Redstone Arsenal, AL	Jun 2012	Mar 2014	9	4,098.000			
†BHTI - Cabins	1	2013	Bell Helicopter Textron Inc / Fort Worth, Texas	C / FFP	AMCOM, Redstone Arsenal, AL	Jan 2013	Jul 2015	16	5,092.000			

#### Remarks:

Bell Helicopter Textron Incorporated (BHTI) will produce cabins and deliver to Corpus Christi Army Depot (CCAD). 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.

LI A02345 - Kiowa Warrior WRA
Army

Ex	chibit P	-21	, Budge	t Pro	oducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	oruary	2012				
	opropria 31A / B				Activi	ty / B	udge	t Sub	) Acti	vity:			_	<b>tem I</b> Kiowa			-									n <b>encla</b> Kiowa		-	√RA		
		(	Cost Elemo								F	iscal Y	ear 201	4									ļ	Fiscal Y	ear 201	15					
						BAL								Ca	lendar	Year 20	)14								Calen	dar Yea	r 2015				
000	MFR Ref# F	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 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	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	J U N	J J	A U G	S E P	B A L
BH	ITI - Cabins	ns																						1							
	1 20	012	ARMY (1)	9	0	9	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	1				
✓	2 20	013	ARMY (2)	16	0	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	13
	1				1	,	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	U 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	U J	A U G	S E P	

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xhil	bit F	P-21	, Budge	et Pro	ducti	ion S	chedi	ule: P	PB 20	13 Arı	my													Date	: Feb	ruary	2012				
			on / <b>Buo</b> I / BSA :		Activi	ty / B	udge	t Sub	Acti	vity:						enclat									<b>Nom</b> 345 -				/RA		
	,	(	Cost Elem (Units in Ea								F	iscal Y	ear 201	6									ı	Fiscal Y	ear 201	7					
						BAL								Ca	lendar	Year 20	16								Calen	dar Yea	r 2017				
O MF		FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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 U	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	J	A U G	S E P	1
BHTI -	Cabi	ns													l	1			l					1	1						
1	2	2012	ARMY (1)	9	9	0																									
/ 2	2	2013	ARMY (2)	16	3	13	1	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	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	

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A02345 - Kiowa Warrior WRA	A02345 - Kiowa Warrior WRA

		PRODU	CTION RATES (Ur	nits/Year)			F	PROCUREMENT LE	ADTIME (Month	s)		
MFR						Initia	al			Reo	rder	
Ref	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	2	3	O	8	0	8	0	0	0	0
2	Bell Helicopter Textron Inc - Fort Worth, Texas	1	2	3	O	3	0	3	0	0	0	0

#### Remarks:

<sup>(2)</sup>OCO

LI A02345 - Kiowa Warrior WRA Army

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>&</sup>lt;sup>(1)</sup>OCO

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

AA0005 - UH-60 Blackhawk M Model (MYP)

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	99	72	59	-	59	57	56	65	53	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	5,537.788	1,790.851	1,597.728	1,304.979	-	1,304.979	1,204.086	1,220.869	1,410.139	1,206.323	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	3,048.258	101.925	99.962	197.892	-	197.892	108.211	119.545	137.385	135.761	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	2,489.530	1,688.926	1,497.766	1,107.087	-	1,107.087	1,095.875	1,101.324	1,272.754	1,070.562	Continuing	Continuin
Plus CY Advance Procurement (\$ in Millions)	3,150.183	99.962	199.781	115.113	-	115.113	116.001	132.138	135.761	251.669	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	5,639.713	1,788.888	1,697.547	1,222.200	-	1,222.200	1,211.876	1,233.462	1,408.515	1,322.231	Continuing	Continuing

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

 Initial Spares (\$ in Millions)
 -</

### **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 Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	/ 2013 O	co	FY	2013 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		-	-	-	18,089.404	99	1,790.851	22,190.666	72	1,597.728	22,118.288	59	1,304.979	-	-	-	22,118.288	59	1,304.979
Total Gross/Weapon System Cost					5,537.788			1,790.851			1,597.728			1,304.979			-			1,304.979

\*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.

#### Justification:

FY 13 Base funding in the amount of \$1222.200 million will procure 59 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.

The current UH-60M Acquisition Program Baseline procurement objective is 1367 aircraft with an estimated total procurement cost of \$28,053.8M.

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Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army										[	Date: Fe	ebruary 2	012		
Appropriation / I 2031A / BA 1 / BS		•	vity / Bu	idget Si	ub Activ	ity:			Nomenc 60 Blackh		Model (N	MYP)		1	Name, E	menclat OODIC): - UH-60	•		
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	з осо	FY 201	3 Tota
Procurement Quantity	(Ea	ch)							-		99		72		59		-		5
Gross/Weapon System	m Co	ost (\$ in Mi	llions)						-	1,7	90.851	1,	597.728	1	,304.979		-		1,304.97
Less PY Advance Pro	cure	ment (\$ in	Millions)						-	1	01.925		99.962		197.892		-		197.89
Net Procurement (P1)			,						-	1.6	88.926	1.4	497.766	1	,107.087		-		1,107.08
Plus CY Advance Pro			Millions)						-	,-	99.962		199.781		115.113		_		115.1
Total Obligation Author		•							_	1 7	88.888		697.547		,222.200		_		1,222.20
Total Obligation Author	Jilly	(ψ 111 101111101		o following	Pagauras S	ummon, rou	o oro for in	formational	aurnaga an			udget reques							1,222.20
Initial Spares (\$ in Mil	lione	1	(111)	e ronownig	Nesource 3	uninary row	s are for in	iorrialioriai p	-	y. The corre	sponding b	uuget reques	sis are doci	annenteu eise	-		_		
. ,		•	. The	ا ما م					-	40.0	-	20	-	20			-	0.	-
Gross/Weapon System	m Ur	,	-		1			1	-	18,0	89.404		190.666	1	,118.288		-	-	2,118.28
		F	Prior Years			FY 2011			FY 2012		F'	Y 2013 Bas		F'	Y 2013 O		F'	Y 2013 Tot	
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		-	-	-	12,254.000	99	1,213.116	-,		1,001.736	14,704.000		867.509		-	0.000	14,704.000	59	867.5
Engines/Accessories		-	-	-	702.000	198	139.061	805.000		115.920	728.000	118	85.862	-	-	0.000	728.000	118	85.8
Avionics (GFE)		-	-	-	-	-	72.143		-	63.577	-	-	51.743		-	0.000	-	-	51.7
Other GFE ECO (All FLYAWAY		-	-	-	-	-	54.601	-	-	32.738 44.150	-	-	32.833		-	0.000	-	-	32.8 37.1
Components)		-			-		44.896		-		-	-	37.160		-	0.000			
Other Costs (Mission Equipment)		-	-	-	-	-	79.494		-	75.513	-	-	77.943		-	0.000	-	-	77.9
Tooling Equipment	-	-	-	-	-	-	2.963	<u> </u>	-	27.070	-	-	0.794		-	0.000	-	-	0.79
Other Nonrecurring Cost		-	-	-	-	-	31.719	-	-	19.264	-	-	6.936		-	0.000	-	-	6.9
Peculiar Training Equipment		-	-	-	-	-	38.931	-	-	100.672	-	-	55.892	-	-	0.000	-	-	55.8
		-	-	-	-	-	3.556	-	-	3.096	-	-	3.184	-	-	0.000	-	-	3.1
Publications/Tech Data		-	-	-	-	-	46.484	-	-	39.469	-	-	40.269	-	-	0.000	-	-	40.20
Data PM Administration			-	-	-	-	63.887	-	-	74.523	-	-	44.854		-	0.000	-	-	44.8
Data PM Administration Fielding		-	_									1	1,304.979	r I	I				
Data PM Administration Fielding Total Recurring Cost		-	_	0.000			1,790.851			1,597.728			<u> </u>	-		0.000			-
Data PM Administration Fielding		-		0.000			1,790.851 1,790.851 <b>1,790.851</b>			1,597.728 1,597.728 <b>1,597.728</b>			1,304.979 1,304.979			0.000			1,304.9 1,304.9

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

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Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 1 / BSA 20	P-1 Line Item Nomenclature: AA0005 - UH-60 Blackhawk M Model (MYP)	Item Nomenclature (Item Number, Item Name, DODIC): A05002 - UH-60 BLACK HAWK (MYP)

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	91	72	59	-	59
	Total Obligation Authority	1,669.511	1,697.547	1,222.200	-	1,222.200
Army National Guard	Quantity	8	-	-	-	-
	Total Obligation Authority	119.377	-	-	-	-

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Exhibit P-5A, Budget Procurement History and Planning: F	PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	AA0005 - UH-60 Blackhawk M Model (MYP)	A05002 - UH-60 BLACK HAWK (MYP)

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	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/CFE		2011	Sikorsky Aircraft / Stratford CT	SS/FP	AMCOM	Jan 2011	Jul 2011	99	12,254.000	N		May 2005
†Airframes/CFE		2012	Sikorsky Aircraft / Stratford CT	SS/FP	AMCOM	Apr 2012	Jul 2012	72	13,913.000	N		Jan 2010
†Airframes/CFE		2013	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Jan 2013	Jul 2013	59	14,704.000	N		Jan 2010

#### Remarks:

The FY 2007 contract is the first year of a five (5) year multi-year, multi-service contract for the H-60Ms. 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.

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Exhibit P-21, Budget Production Schedule: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A / BA 1 / BSA 20 AA0005 - UH-60 Blackhawk M Model (MYP) A05002 - UH-60 BLACK HAWK (MYP) **Cost Elements** Fiscal Year 2012 Fiscal Year 2011 (Units in Each) Calendar Year 2012 BAL Calendar Year 2011 ACCEP DUE 0 PRIOR AS 0 Ν D F М Α S Ν D F Α S Α Α C Ε PROC TO 1 Ε Ε U U U Ε С Ε U U Ε MFR OF 1 С 0 Α Α Р Α 0 Α Α Р Α U Α SERVICE<sup>‡</sup> QTY 0 Ref# FΥ ОСТ OCT Т С Ν В R R Υ L G т С Ν В R R Ν G Airframes/CFE 2011 ARMY 99 0 99 3 3 8 8 7 10 17 1 2011 NAVY 42 0 42 1 2 1 2 2 1 2 1 2 5 4 3 3 3 9 ---3 1 • FMS 0 2 2 2 1 2 2011 15 15 --1 1 1 2011 TOTAL 156 0 156 4 5 7 10 8 10 11 9 9 14 16 8 7 6 28 ----1 **ARMY** 0 72 Α -6 6 6 54 2012 72 -\_ \_ \_ \_ \_ -2 2012 NAVY 42 0 42 -\_ 2 37 -8 8 1 2012 TOTAL 114 0 114 91 1 0 59 59 59 ARMY (1) 1 2013 • NAVY 37 0 37 37 1 2013 TOTAL 96 0 96 -96 ----0 F М М s Ν F М s Ν D J Α J J Α 0 D J Α М J Α С 0 Ε Α Ε Α Ρ U U U Ε С 0 Ε Ε Р U U U Ε Α Α Α Α

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

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	st Elemen								Fig L Y		15											'aa- 00 1	<u> </u>					Ť
(Ur	Inits in Each	h) 	ВА			_	Ι		Fiscal Y	ear 201		alondar	Year 2	015							iscal Y			ar 2016			-	+
MFR Ref# FY SEI	RVICE <sup>‡</sup>	PROC	ACCEP DU PRIOR AS	0 1 C	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	
rames/CFE					-				I		1	1	1			I								I		I		
2011 AR	RMY	99	99	0																								_
I 2011 ◆ N	NAVY	42	42	0																								
2011 + F	FMS	15	15	0																								
2011 TO	OTAL	156	156	0																								
2012 AR	RMY	72	72	0																								
2012 + N	NAVY	42	42	0																								
2012 TO	DTAL	114	114	0																								
2013 AR	RMY (1)	59	59	0																								
2013 + N	NAVY	37	32	5																								
2013 TO	OTAL	96	91	5																								
				C	O V	E	AN	В	AR	PR	Ą	UN	UL	U	EP	C	O V	EC	AN	E B	AR	PR	Ą	UN	U	U G	E	

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

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	AA0005 - UH-60 Blackhawk M Model (MYP)	A05002 - UH-60 BLACK HAWK (MYP)

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)		
MFR						Ini	ial			Reo	rder	
Ref	1	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	Sikorsky Aircraft - Stratford CT	18	96	150	8	3	6	9	0	3	6	9

#### Remarks:

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

Army

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>(1)</sup>BASE

<sup>&</sup>lt;sup>(2)</sup>BASE

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement

ID Code (A=Service Ready, B=Not Service Ready) :		Prograi	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,150.183	99.962	199.781	115.113	-	115.113	116.001	132.138	135.761	251.669	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	3,150.183	99.962	199.781	115.113	-	115.113	116.001	132.138	135.761	251.669	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,150.183	99.962	199.781	115.113	-	115.113	116.001	132.138	135.761	251.669	Continuing	Continuing
(The fi	ollowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)	,		
Initial Sparce (\$ in Millions)	_	_	_	_	_	_	_	_	_	_	_	_

# 

### **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 the Improved Hover Infrared Suppressor Subsystem (IHIRSS) as well as numerous communication, navigation, and Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM).

Item Sche	dule		Р	rior Year	rs		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	О	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost									
AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					3,150.183			99.962			199.781			115.113			-			115.113

\*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.

#### Justification:

FY 2013 procures long lead and Economic Order Quantities (EOQ) items such as T700-GE-701D engines and avionics components for the FY12-FY16 multiyear contract.

UNCLASSIFIED

Exhibit P-10, Advance Procurement Re	quirement	s Analysis	(page 1 - I	Budget Fu	ınding Jus	tification)	: PB 2013	Army	Date: Feb	ruary 2012	)		
Appropriation / Budget Activity / Budget 2031A / BA 1 / BSA 20	et Sub Acti	vity:	P-1 Line It AA0005 - U Procureme	JH-60 Blad		Model (MYI	P) Advanc	e	Name):	UH-60 Bla	(Item Numi ckhawk M N curement		
ID Code (A=Service Ready, B=Not Service Ready) :					MDA	P Code:							
First System (2013) Award Date: May 2005			First System June 2006	(2013) Com	pletion Date:	:		Interval Bet 18 Months	ween System	ıs:			
			Prior Years	FY 2011 (Each)	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	To Complete (Each)	Total (Each)	
End Item Quantity			262	262 47 36									
Cost Element	When Rqd	All Prior Years	FY 2011 (\$ M)	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	To Complete	Total		
Other			'	'	'		1	'		1			
CFE Airframe	-	6	2,820.520	52.180	147.041	36.730	-	-	-	-	-	-	
Auxiliary Power Unit	-	3	14.619	2.328	2.570	3.820	-	-	-	-	-	-	
Engines	-	3	234.000	37.926	41.860	62.213	-	-	-	-	-	-	
EGI	-	3	38.866	5.780	6.380	9.482	-	-	-	-	-	-	
Heads Up Display AVS-7	-	3	12.064	1.748	1.930	2.868	-	-	-	-	-	-	
Hover Infrared Suppressor	-	3	28.200	-	-	-	-	-	-	-	-	-	
Miscellaneous	Miscellaneous -					-	-	-	-	-	-	-	
Other Subtotal			3,150.183	99.962	199.781	115.113	0.000	0.000	0.000	0.000	0.000	0.000	
Total Advance Procurement/Obligation Authority	Advance Procurement/Obligation					115.113	-	-	-	-	-	-	

Exhibit P-10, Advance Procurement Requirements Analys	is (page 2 - Budget Funding Justification): PB 2013 Army	Date: February 2012							
Appropriation / Budget Activity / Budget Sub Activity:  2031A / BA 1 / BSA 20  P-1 Line Item Nomenclature:  AA0005 - UH-60 Blackhawk M Model (MYP) Advance  Procurement  AA0005 - UH-60 Blackhawk M Model (MYP) Advance  (MYP) Advance Procurement									
ID Code (A-Contine Donate Debte Contine Donate)	MDAD Code:								

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP Code	<b>)</b> :	
		FY 2013	
	Unit Cost	Qty (Each)	Total Cost Request
End Item	-	-	115.113

				FY 2013		
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)	Contract Forecast Date	Total Cost Request
Other						
CFE Airframe	1	-	-	-	Dec 2012	37
Auxiliary Power Unit	1	-	-	-	Dec 2012	4
Engines	2	-	-	-	Dec 2012	62
EGI	2	-	-	-	Dec 2012	9
Heads Up Display AVS-7	1	-	-	-	Dec 2012	3
Hover Infrared Suppressor	-	-	-	-	Dec 2012	-
Miscellaneous	-	-	-	-	Dec 2012	-

Description:

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05101 - CH-47 Helicopter

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	73	49	48	38	6	44	28	30	39	27	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	1,226.886	1,419.818	1,360.316	1,159.382	231.300	1,390.682	915.200	926.945	1,190.219	1,280.468	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,226.886	1,419.818	1,360.316	1,159.382	231.300	1,390.682	915.200	926.945	1,190.219	1,280.468	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,226.886	1,419.818	1,360.316	1,159.382	231.300	1,390.682	915.200	926.945	1,190.219	1,280.468	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	16,806.658	28,975.878	28,339.917	30,510.053	38,550.000	31,606.409	32,685.714	30,898.167	30,518.436	47,424.741	Continuing	Continuing

### **Description:**

Army

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

Item Sche	edule		Р	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A05008 - CH-47 NEW BUILD	P5, P5A, P21		-	59	881.805	-	38	1,114.170	-	33	870.399	-	19	525.141	-	6	231.300	-	25	756.441
CH-47 SLEP	P3A		-	14	345.081	-	11	305.648	-	15	489.917	-	19	634.241	-	-	-	-	19	634.241
Total Gross/Weapon System Cost					1,226.886			1,419.818			1,360.316			1,159.382			231.300			1,390.682

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05101 - CH-47 Helicopter

ID Code (A=Service Ready	, B=Not Service Read	dy) :				Program	Element	s for Cod	e B Items	<b>s</b> :			Oth	er Relate	d Progran	n Eleme	nts:			
				FY 2014			FY 2015			FY 2016			FY 2017		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A05008 - CH-47 NEW BUILD	P5, P5A, P21		-	6	221.100	-	4	156.805	-	12	404.445	-	-	525.580	-	-	-	_ 1	-	-
CH-47 SLEP	P3A		-	22	694.100	-	26	770.140	-	27	785.774	-	27	754.888	-	-	-	-	-	-
Total Gross/Weapon System Cost					915.200			926.945			1,190.219			1,280.468			-			-

\*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.

#### Justification:

FY13 Base procurement dollars in the amount of \$1159.4 million will procure 19 new build (12 CH-47Fs and 7 MH-47Gs) aircraft and 19 renew aircraft. FY13 OCO procurement dollars in the amount of \$231.3 million will procure 6 war replacement new build CH-47F aircraft.

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

The current CH-47F Acquisition Program Baseline procurement objective is 533 aircraft with an estimated total procurement cost of \$14,315.7M. Of the 533 aircraft 237 will be New Build aircraft and 226 will be remanufactured aircraft.

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LI A05101 - CH-47 Helicopter Army

								•	NCLAS										
Exhibit P-5, Cos	t Ar	alysis:	PB 2013	Army											Date: Feb	ruary 20	)12		
Appropriation / E 2031A / BA 1 / BS	Bud	get Acti			Sub Acti	vity:			n Nomer -47 Helic						Name, DC	DIC):	`		per, Item
Resou	rce	Summa	ry		Prior Years	FY 2011	FY 20	- 1	Y 2013 Base	FY 2013 OCO	FY 201: Total	3 FY 20	14 F	Y 2015	FY 2016	FY 20 <sup>2</sup>			Total
Procurement Quantity	/ (Ea	ch)			59	38		33	19	6	2	25	6	4	12		- Cor	tinuing	Continuing
Gross/Weapon Syster	m Co	st (\$ in Mi	llions)		881.805	1,114.170	870.	399	525.141	231.300	756.44	11 221	100	156.805	404.445	525.5	580 Cor	tinuina	Continuing
Less PY Advance Pro		•			_		0.0.	-	-				_	-	-	020.0	_	_	-
Net Procurement (P1)			1411110110)		881.805	1,114.170	870.		525.141	231.300	756.44	11 221	100	156.805	404.445	525.5	580 Cor	tinuina	Continuing
, ,			Milliana			1,114.170	670.			231.300		+1 221		130.003	404.443	323.0	000 001	unung	Continuing
Plus CY Advance Pro		• • • • • • • • • • • • • • • • • • • •			-			-	-	-	-		-	-			-	-	
Total Obligation Author	ority (	(\$ in Millior	าร)		881.805	1,114.170	870.	399	525.141	231.300	756.44	11 221	.100	156.805	404.445	525.5	re (Item Num  EW BUILD  To Complete Continuing Continuing Continuing FY 2013  Juit Cost (SK)  Cuntinuing Cunti		Continuing
			(The	e following	g Resource	Summary rows	are for inf	ormationa	al purposes o	only. The corre	esponding bu	dget request	s are doo	cumented el	sewhere.)				
Initial Spares (\$ in Mil	lions	)			-	-		-	-	-	-		-	-	-		-	-	-
Gross/Weapon Syster	m Un	it Cost (\$ i	in Thousan	ds)	-	-		-	-	-	-		-	-	-		-	-	-
		F	Prior Years			FY 2011			FY 201	2	FY	2013 Bas	e		FY 2013 OCC	)	F`	Y 2013 T	otal
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cos	t Quantity	Total Cost (\$ M)	Unit Co	est Quantity	Total y Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cos	t Quantity	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost					•														
Recurring Cost														-					
† Airframes/CFE		15,016.000	43	645.70	,	-	691.580	19,286.0		636.440	13,089.000	19	248.69		-		21,158.000		19 402.010
Engine/Accessories		851.000	86	73.24			66.513	956.0	_	61.210	997.000	24	23.91		-	14.748	•		24 38.666
CFE Avionics		-	-	42.17		-	43.274	-		39.824	-	-	15.56		-	9.594		-	
GFE	-	-	-	47.29		-	119.885	-		30.278	-	-	35.01		-	17.340		-	02.000
ECO (Flyaway)		-	-	17.56	-	-	0.000	-		13.941	-	-	12.28	_	-	7.361		-	19.643
Other Costs SOA Aircraft		-	-	28.93	3 -	-	8.847 8.929	-		26.304 12.202	-	-	74.16		-	10.039 0.000		-	00:2:0
PSE		-	-	3.82		-	6.544				-		2.42		-	0.486		-	
Peculiar Training Equipment		-	-	3.97		-	25.897	-		0.532	-	-	0.30		-	0.060		-	0.368
Publications/Tech Data		-	-	0.74	7 -	-	5.816	-		0.491	-	-	0.28	4 -	-	0.054	-	-	0.338
ECO (Support Items)		-	-	0.82	4 -	-	0.506	-	-	0.452	-	-	0.52	3 -	-	0.102	-	-	0.625
NET		-	-	-	-	-	23.886	-	-	0.000	-	-	18.04	7 -	-	3.606	-	-	21.653
Other Support Costs	Ш	-	-	11.86	0 -	-	7.755	-	-	9.129	-	-	6.86	5 -	-	1.374	-	-	
Post Production Modifications		-	-	-	-	-	99.888	-	-	31.787	-	-	61.66		-	12.018	-	-	73.682
Initial Spares		-	-	5.64		-	4.850	-		5.713	-	-	2.18		-	1.200	-	-	3.380
Total Recurring Cost	$\perp$			881.80			1,114.170			870.399			525.14			231.300			756.441
Total Flyaway Cost				881.80	-		1,114.170			870.399			525.14			231.300			756.441
Gross Weapon System Cost				881.80	5		1,114.170			870.399			525.14	1		231.300			756.441

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

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

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2031A / BA 1 / BSA 20

A05101 - CH-47 Helicopter

A05008 - CH-47 NEW BUILD

			FY 2014			FY 2015			FY 2016			FY 2017		To	o Complete			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		20,724.000	6	124.346	20,724.000	4	82.897	20,724.000	12	248.692	-	-	0.000	-	-	0.000	135,831.000	155	2,831.673
Engine/Accessories		997.000	12	11.959	997.000	8	7.973	997.000	24	23.918	-	-	0.000	-	-	0.000	7,284.000	294	283.485
CFE Avionics		1,297.000	6	7.781	1,297.000	4	5.187	1,297.000	12	15.561	-	-	0.000	-	-	0.000	3,891.000	22	178.961
GFE		2,968.000	6	17.807	3,018.000	4	12.073	3,070.000	12	36.835	-	-	0.000	-	-	0.000	9,056.000	22	316.533
ECO (Flyaway)		6,153.000	1	6.153	4,110.000	1	4.110	12,354.000	1	12.354	-	-	0.000	-	-	0.000	22,617.000	3	73.761
Other Costs		8,959.000	1	8.959	8,222.000	1	8.222	17,188.000	1	17.188	-	-	0.000	-	-	0.000	34,369.000	3	131.702
SOA Aircraft		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	95.295
PSE		-	-	1.024	-	-	0.432	-	-	1.014	-	-	0.000	-	-	0.000	-	-	17.848
Peculiar Training Equipment		-	-	0.173	-	-	2.215	-	-	5.802	-	-	0.000	-	-	0.000	-	-	38.963
Publications/Tech Data		-	-	0.133	-	-	0.084	-	-	0.198	-	-	0.000	-	-	0.000	-	-	7.807
ECO (Support Items)		-	-	0.221	-	-	0.093	-	-	0.219	-	-	0.000	-	-	0.000	-	-	2.940
NET		-	-	6.773	-	-	2.105	-	-	5.545	-	-	7.251	-	-	0.000	-	-	67.213
Other Support Costs		-	-	3.865	-	-	2.446	-	-	5.740	-	-	0.000	-	-	0.000	-	-	49.034
Post Production Modifications		-	-	30.797	-	-	28.216	-	-	29.086	-	-	518.329	-	-	0.000	-	-	811.785
Initial Spares		-	-	1.109	-	-	0.752	-	-	2.293	-	-	0.000	-	-	0.000	-	-	23.745
Total Recurring Cost				221.100			156.805			404.445			525.580			0.000			4,930.745
Total Flyaway Cost				221.100			156.805			404.445			525.580			0.000			4,930.745
Gross Weapon System Cost				221.100			156.805			404.445			525.580		C	ontinuing			Continuing

Remarks:

Secor	ndary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	32	15	19	6	25	6	4	12	-
	Total Obligation Authority	958.420	330.399	525.141	231.300	756.441	221.100	156.805	404.445	180.028
Army National	Quantity	6	18	-	-	-	-	-	-	-
Guard	Total Obligation Authority	155.750	540.000	-	-	-	-	-	-	172.776
Army Reserve	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-	172.776

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Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A05101 - CH-47 Helicopter	A05008 - CH-47 NEW BUILD

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	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/CFE		2011	The Boeing Company / Ridley Park, PA	SS/FFP	AMCOM	Dec 2010	Jan 2013	38	18,199.000	N		Apr 2007
†Airframes/CFE		2012	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2011	Jan 2014	33	19,286.000	N		Apr 2007
†Airframes/CFE		2013	The Boeing Company / Ridley Park, PA	SS/FFP	AMCOM	Jan 2013	Nov 2015	19	21,158.000	N		Jul 2011

Remarks:

LI A05101 - CH-47 Helicopter Army

E	khibit	P-21	, Budge	et Pr	oduct	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / <b>Bu</b> o 1 / BSA :		Activi	ty / B	udge	t Sub	Acti	vity:			_			nclat copte	-								<b>Nom</b> 008 - 0				ILD		
			Cost Elem (Units in Ea								F	iscal Y	ear 201	3									F	iscal Y	ear 201	4					
						BAL								Ca	lendar	Year 20	13								Calend	dar Yea	r 2014				ı
0 0 0		FY	SERVICE <sup>‡</sup>	PROG QTY		1	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	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 U	J U L	A U G	S E P	B A L
Ai	rframes	CFE																													
	1	2011	ARMY	38	3 0	38	-	-	-	3	4	5	4	2	2	3	3	3	3	3	3										
	1	2012	ARMY	33	3 0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	2	3	7
	1	2013	ARMY (1)	19	0	19	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
					•		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	n T	A U G	S E P	

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E	xhibit	t P-21	, Budge	et Pro	duct	ion S	ched	ule: F	PB 20	13 Aı	my													Date	: Feb	ruary	2012				
			on / Bud 1 / BSA		Activi	ty / B	udge	t Suk	Acti	vity:			_		_	enclat icopte									<b>Nom</b>				ILD		
			Cost Elem (Units in Ea								F	iscal Y	ear 201	5									F	iscal Y	ear 201	6					
						BAL								C	alendar	Year 20	)15								Calend	dar Yea	r 2016				
000		FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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	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	B A L
Aiı	rframes	s/CFE	I.		-												-	-													
	1	2011	ARMY	38	38	0																									
	1	2012	ARMY	33	26	7	2	3	2	]																					
	1	2013	ARMY (1)	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	2	1	2	1	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 L	A U G	S E P	

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Exhib	it P-2	1, Budge	et Pro	ducti	on So	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
	•	ion / Bud 1 / BSA	_	Activi	ty / B	udge	t Sub	Acti	vity:			<b>Line I</b> 101 -													encla CH-4			ILD		
,	,	Cost Elem (Units in Ea								ı	iscal Y	ear 201	7									ı	iscal Y	ear 201	8					
					BAL								Ca	lendar	Year 20	017								Calen	dar Yea	r 2018				
O MFR	-	SERVICE <sup>1</sup>	PROC	ACCEP PRIOR TO 1 OCT		1 O O	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N O L	J	A U G	SEP	100	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	) J	O N >	S E P	E
Airframe		OLIVIOL		00.	00.	•									_			•									_			
1	201	1 ARMY	38	38	0																									
1	201	2 ARMY	33	33	0																									
1	2013	3 ARMY (1)	19	17	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 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	N N	n T	A U G	S E P	

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 1 / BSA 20	A05101 - CH-47 Helicopter	A05008 - CH-47 NEW BUILD

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LI	EADTIME (Months	s)		
MFR						Init	ial			Reo	rder	
Ref #	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	36	36	72	5	5	35	40	0	0	0	0

#### Remarks:

LI A05101 - CH-47 Helicopter
Army

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>&</sup>lt;sup>(1)</sup>BASE

				• • • • • • • • • • • • • • • • • • • •											
Exhibit P-3A, Individual Modification: P	B 2013 Arr	ny							Date: Feb	ruary 2012	2				
Appropriation / Budget Activity / Budge 2031A / BA 1 / BSA 20						P-1 Line Item Nomenclature: A05101 - CH-47 Helicopter									
Models of Systems Affected: CH-47		Type I	<b>Nodificatio</b>	n: .			Re	lated RDT	&E PEs:						
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total			
Procurement Quantity (Each)	14	11	15	19	-	19	22	26	27	27	Continuing	Continuing			
Gross/Weapon System Cost (\$ in Millions)	345.081	305.648	489.917	634.241	-	634.241	694.100	770.140	785.774	754.888	Continuing	Continuing			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P1) (\$ in Millions)	345.081	305.648	489.917	634.241	-	634.241	694.100	770.140	785.774	754.888	Continuing	Continuing			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	345.081	305.648	489.917	634.241	-	634.241	694.100	770.140	785.774	754.888	Continuing	Continuing			
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)						
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Description: The CH-47F Chinook is a twin-turbine, tandem-roto compatible with Joint digital connectivity requirements.		•	•								•				

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

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 1 / BSA 20

P-1 Line Item Nomenclature:

A05101 - CH-47 Helicopter

Modification Nomenclature

(Modification Title, Modification Number):

CH-47 SLEP - .

Models of Systems Affected: CH-47	Type Modifica	ation: .				Related RDT&E PEs:									
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 Total				
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)											
Procurement															
CH-47 D to F Conversion (2)															
A Kits															
Recurring															
Recurring Production (Mods)	14	307.600	11	246.476	15	424.600	19	488.957	0	0.000	19	488.957			
Other Flyaway	0	15.400	0	19.700	0	24.000	0	53.900	0	0.000	0	53.900			
Other Support	0	17.500	0	36.864	0	7.600	0	40.803	0	0.000	0	40.803			
Training	0	0.900	0	0.200	0	0.200	0	11.912	0	0.000	0	11.912			
Support Equipment	0	3.681	0	2.408	0	3.717	0	7.292	0	0.000	0	7.29			
Post Production (Mods)	0	0.000	0	0.000	0	29.800	0	31.377	0	0.000	0	31.37			
Subtotal Recurring		345.081		305.648		489.917		634.241		0.000		634.24			
Total, CH-47 D to F Conversion	14	345.081	11	305.648	15	489.917	19	634.241	0	0.000	19	634.24			
Total, All Modifications		345.081		305.648		489.917		634.241		0.000		634.24			
Procurement Cost (Procurement + Support)		345.081		305.648		489.917		634.241		0.000		634.24			
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		0.00			
Total Cost (Procurement + Support + Installation)		345.081		305.648		489.917		634.241		0.000		634.24			

	FY	2014	FY:	2015	FY 2	2016	FY 2	2017	To Co	mplete	Total	
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Procurement		-										
CH-47 D to F Conversion <sup>(2)</sup>												
A Kits												
Recurring												
Recurring Production (Mods)	22	548.163	26	634.771	27	657.423	27	594.951	2	46.483	163	3,949.42
Other Flyaway	0	58.234	0	71.061	0	62.913	0	53.790	0	167.755	0	526.75
Other Support	0	40.388	0	27.474	0	23.787	0	25.923	0	9.190	0	229.52
Training	0	12.254	0	0.713	0	0.579	0	0.851	0	0.865	0	28.47
Support Equipment	0	7.819	0	7.694	0	7.441	0	5.248	0	0.395	0	45.69

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P-1 Line #15

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 1 / BSA 20

P-1 Line Item Nomenclature:
A05101 - CH-47 Helicopter

Modification Nomenclature
(Modification Title, Modification Number):
CH-47 SLEP - .

Models of Systems Affected: CH-47	Type Modif	ication: .				Related RDT&E PEs:								
	F	Y 2014	FY	2015	FY:	2016	FY 2	017	To Co	mplete	Total			
Financial Plan	Qty (Each,	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )										
Post Production (Mods)		0 27.24	2 0	28.427	0	33.631	0	74.125	0	2,004.147	0	2,228.749		
Subtotal Recurring		694.10	)	770.140		785.774		754.888		2,228.835		7,008.624		
Total, CH-47 D to F Conversion		22 694.10	26	770.140	27	785.774	27	754.888	2	2,228.835	163	7,008.624		
Total, All Modifications		694.10		770.140		785.774		754.888		2,228.835		7,008.624		
Procurement Cost (Procurement + Support)		694.10	)	770.140		785.774		754.888		2,228.835		7,008.624		
Total Installation Cost		0.00	)	0.000		0.000		0.000		0.000		0.000		
Total Cost (Procurement + Support + Installation)		694.10	)	770.140		785.774		754.888		2,228.835		7,008.624		

#### Remarks:

(2) 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. 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. Dynamic components are recapitalized by the Original Equipment Manufacturer (OEM) and returned for incorporation during the assembly process. The Renew Program rebuilds and replaces CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F and MH-47G configuration. This program is funded to meet the Army Aviation Transformation Plans full requirement for Chinook aircraft. (Prior to FY10, this program was funded on the CH-47 Cargo Helicopters Mod SSN AA0252).

Manufacturer Informati	on: CH-47 D to F Conversi	ion											
Manufacturer Name: Boo	eing			Manufacturer Location: Ripley, PA									
Administrative Leadtime	(in Months): 5			Production Leadtime (in Months): 12									
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017						
Contract Dates	Feb 2012	Feb 2013	Feb 2014	Feb 2015	Feb 2016	Feb 2017	Feb 2018						
Delivery Dates	Feb 2013	Feb 2014	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019						

Installation: CH-47 D to F Conversion	Met	thod of Imple	ementation:	Contractor		Installa	Installation Name:							
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 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		
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000		
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000		
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000		
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000		

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Exhi	bit P-	3A, lı	ndivi	dual l	Modif	icatio	n: Pi	3 201	3 Arn	ny													I	Date:	Febr	uary	2012				
	ropria A / BA				Activi	ty / B	udge	t Sub	Acti	vity:		<b>P-1 L</b> A051	_		-									Modification Nomenclature (Modification Title, Modification Number): CH-47 SLEP							
Mod	els of	Syst	tems	Affe	cted:	CH-4	7			Ту	pe N	e Modification: Related RDT										RDT8	T&E PEs:								
Instal	lation:	CH-47	' D to F	Conv	ersion					Me	ethod	of Implementation: Contractor Ins							Insta	Installation Name:											
										Prio	r Year	rs FY 2		2011			FY 2	2012		FY 2	013 E	Base		FY 20	13 00	3 OCO FY 2013 Total					
Instal	lation (	Cost								Qty (Each)		tal Cost Qty (\$ M ) (Each)		Total (\$ A		Qt (Ea		Total C		Qty (Each)	1	Total Cost		<b>Qty</b> Each)		tal Cost	Qty (Each)		tal Cost		
FY 20	15									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	16									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	17									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
To Co	mplete									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
Total										0		0.000		0.000			0	(	0.000		0	0.00	00		0.000		000		0.00		
	FY 2					2014			FY 2	2015			FY 2	2016		F	Y 201	7		To C	omple	ete		Total							
Instal	lation (	Cost						Qty (Each)						Qty ach)	Total		Qt (Ea		Total C		Qty (Each)	1	Total Cost		<b>Qty</b> Each)		tal Cost (\$ M )	Qty (Each)		tal Cost	
All Pri	or Year	s								(	0	0.000		0		0.000		0	(	0.000		0	0.00	00	-	0	0.000		0	0.00	
FY 20	11									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	12									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	13									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	14									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	15									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	16									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
FY 20	17									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
To Co	mplete									(	0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000		0	0.00	
Total										(	0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0	0.00	
Instal	lation §	Sched				-																									
			FY 2			. 1	FY 2				FY 2				FY 2				FY 2015				FY 20				FY 20			_	
	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	_	_	
In O	9	4	2	3		3	3	4	4	4	3	5	5	5	5	6	5			7	6	7	5	7	7	7	6	7	7 1:	_	
Out	-	0	2	3	4	4	2	3	3	3	3	4	4	4	3	5	5	5	5 5	6	5	6	6	7	6	1	5	7	7 39	9 16	

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P-1 Line #15

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A05101 - CH-47 Helicopter Advance Procurement

ID Code (A=Service Ready, B=Not Service Ready):	ode (A=Service Ready, B=Not Service Ready) :						Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	83.279	66.358	120.956	83.346	-	83.346	98.376	102.361	102.134	8.707	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	83.279	66.358	120.956	83.346	-	83.346	98.376	102.361	102.134	8.707	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	83.279	66.358	120.956	83.346	-	83.346	98.376	102.361	102.134	8.707	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			

(The follo	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)														
itial Spares (\$ in Millions)															
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ 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. 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		Prior Years		's		FY 2011			FY 2012		FY	′ 2013 Ba	ise	FY	2013 O	o	FY	2013 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
A05101 - CH-47 Helicopter Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					83.279			66.358			120.956			83.346			-			83.346

\*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.

#### Justification:

FY 13 Base procurement dollars in the amount of \$83.3 million will procure avionics and airframe advance procurement.

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Exhibit P-10, Advance Procurement Re	quirement	s Analysis	(page 1 -	Budget Fu	nding Jus	tification)	: PB 2013	Army	Date: Feb	ruary 2012		
Appropriation / Budget Activity / Budget 2031A / BA 1 / BSA 20	et Sub Acti	vity:	<b>P-1 Line I</b> A05101 - 0			ance Procu	ırement		Name):	CH-47 Heli	(Item Numi	
ID Code (A=Service Ready, B=Not Service Ready) :					MDA	P Code:						
First System (2013) Award Date: December 2003			First System December 20		pletion Date	:		Interval Bet 2 Months	ween System	is:		
End Item Quantity		Prior Years (Each) 73	<b>FY 2011</b> (Each) 49	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	To Complete (Each)	Total (Each)	
Cost Element	When Rqd	All Prior Years	FY 2011 (\$ M)	FY 2012 (\$ M)	FY 2013	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	To Complete	<b>Total</b> (\$ M)	
Other			. , , _		, ,		. , ,		, ,		, , , ,	
Avionics	-	16	33.339	26.543	48.382	33.338	-	-	-	-	-	-
Airframe				39.815	72.574	50.008	-	-	-	-	-	-
Other Subtotal	ther Subtotal			66.358	120.956	83.346	0.000	0.000	0.000	0.000	0.000	0.000
al Advance Procurement/Obligation chority			83.279	66.358	120.956	83.346	-	-	-	-	-	-

Cost Elements   QPA	Exhibit P-10, Advance Procurement Requirements A						
A05101 - CH-47   Helicopter   Advance   Procurement   A05101 - CH-47   Helicopter   Advance   A05101 - CH-47   Helicopter   A05101 - Helicopter   A05101		nalysis ( <i>page 2</i>	- Budget Funding Ju	stification): PB 2013	3 Army Date:	: February 2012	
Cost Elements   Cost Element   Cos				vance Procurement	Numi A051	<i>ber</i> ): 01 - CH-47 Helic	
Unit Cost	ID Code (A=Service Ready, B=Not Service Ready) :		MD	AP Code:			
Cost Elements							
FY 2013   FY 2013     FY 2013     Contract Forecast Date   Cost Elements   C			Unit Cost			Total	
Cost Elements  Cost Elements  Unit Cost (SK)  (Each)  Contract Forecast Date  Cost Elements  Other  Avionics  Airframe  Procurement Leadtime (Months)  Unit Cost (SK)  Contract Forecast Date  Total Cost Requesting (SM)	End Item			-		-	83.346
Cost Elements  QPA (Each) (Each) (SK) (SK) Qty (Each) (SK) Contract Forecast Date (SM)  Total Cost Requesting (SM)  Avionics Airframe  Dec 2012  Airframe					FY 2013		
Other         Avionics         -         -         -         -         Dec 2012           Airframe         -         -         -         -         Dec 2012	Cost Elements		Leadtime				Total Cost Request
Airframe Dec 2012	Other			,			
				-	-		33
Description:	Airframe		-   -	-	-	Dec 2012	50

LI A05101 - CH-47 Helicopter Advance Procurement Army

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 1: Aircraft / BSA 20: Rotary

A06500 - HELICOPTER NEW TRAINING

ID Code (A=Service Ready, B=Not Service Ready) :					ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	183	-	-	-	-	-	-	-	-	-	0	183
Gross/Weapon System Cost (\$ in Millions)	189.810	-	-	-	-	-	-	-	-	-	0.000	189.810
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	189.810	-	-	-	-	-	-	-	-	-	0.000	189.810
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	189.810	-	-	-	-	-	-	-	-	-	0.000	189.810

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

#### **Description:**

The TH-67 Creek is a non-developmental commercial, three-seated, single engine, training helicopter with two main rotor blades. It is a variant of the Bell Helicopter Textron, Incorporated 206B-3 helicopter. It is used exclusively at the U.S. Army Aviation Center, Fort Rucker, AL, for Initial Entry Rotor Wing (IERW). A mix of aircraft configured to support Visual Flight Rules (VFR), Instrument Flight Rules (IFR) and Basic War fighting Skills (BWS) training are used. The VFR version is ideal for early stages of flight school because it is lighter, simpler, and less sensitive to the harsher flight maneuvering generated during the students' primary training. The IFR is equipped for the more advanced instrument phase and is more complex and heavier, but does not undergo the harsher primary flight maneuvering generated in earlier training phases. An enhanced configuration of the VFR is a third design which offers a training environment for the acquisition of basic navigation/night/night vision goggles skills. All versions of the aircraft are designed to provide safe, effective and economical in-flight training when used to demonstrate and practice basic helicopter pilot skills.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	9.383	-	-	-	-

Justification:

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

A01234 - C12 AIRCRAFT MODS

Modification Of Aircraft

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

Program Elements for Code B Items:

Other Related Program Elements:

1,		3							. 5			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	40.000	122.340	-	-	-	-	-	-	-	-	0.000	162.340
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	40.000	122.340	-	-	-	-	-	-	-	-	0.000	162.340
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	40.000	122.340	-	-	-	-	-	-	-	-	0.000	162.340
(The follo	wing Resource	Summary rows	are for informa	ational purposes	s only. The corre	esponding budg	et requests are	documented e	lsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The C-12 fixed wing aircraft platform hosts a number of Army Intelligence, Surveillance and Reconnaissance/Reconnaissance Surveillance and Target Acquisition (ISR/RSTA) sensor systems that support irregular warfare in Overseas Contingency Operations (OCO). Included in those systems are the Guardrail Common Sensor (GRCS), Aerial Reconnaissance Multi Sensor (ARMS) (Iraq), the Medium Altitude Reconnaissance and Surveillance Systems (MARSS) (Iraq and Afghanistan), and Constant Hawk (Afghanistan). The ARMS system is composed of B-200 (C-12) aircraft equipped with imagery sensors, specialized COMINT sensors, and an array of line of sight and beyond line of sight communications equipment. The aircraft were fielded to Operation Iraqi Freedom (OIF) in FY06 and had provided daily support to the (Task Force Observe, Detect Identify, Neutralize (TF ODIN) commander. Constant Hawk (CH) in Afghanistan is hosted on King Air 350 (C-12) aircraft. CH is a persistent surveillance wide field of view airborne intelligence, surveillance and reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance and forensic force protection missions. CH uses high resolution Electro Optic (EO) cameras mounted on manned aircraft to provide persistent surveillance of a designated Named Area of Interest (NAI). The MARSS aircraft are C-12 variant aircraft equipped with numerous sensors to include imagery and communications intelligence (COMINT) payloads. They also include several line-of-sight and beyond line of sight communications systems and on board (manned) processing of the imagery and COMINT.

Seco	ndary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	122.340	-	-	-	-

#### Justification:

There is no FY13 budget request.

All COMPO 1 Active

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

A00020 - MQ-1 Payload - UAS

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:				
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total		
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)	87.154	83.556	146.983	231.508	-	231.508	249.486	258.027	10.146	10.162	Continuing	Continuing		
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P1) (\$ in Millions)	87.154	83.556	146.983	231.508	-	231.508	249.486	258.027	10.146	10.162	Continuing	Continuing		
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)	87.154	83.556	146.983	231.508	-	231.508	249.486	258.027	10.146	10.162	Continuing	Continuing		
(The folio	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		

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

#### **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 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, provides location information and performs cross-cue with the Electro-Optic/Infrared (EO/IR) sensors. Enhancements have been approved for the STARLite payload to extend the range. STARLite ER (Extended Range) has been cut into production (FY 2011) and will begin fielding and retrofitting in FY 2012. Capability to perform GMTI man-sized detection and vehicle classification will be incorporated into the ER systems.

Common Sensor Payload (CSP) Electro Optical / Infra Red / Laser Designator (EO/IR/LD) provides 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 that 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.

CSP High Definition (HD) is the first capability enhancement for the CSP which is planned for production cut-in in FY 2013. This new capability will provide the battlefield commander with HD Full Motion Video (FMV) in both the Electro-optical and Mid-wave IR spectrums for improved battlefield situation awareness and identification of high value targets. A retrofit plan will commence in FY 2014 to convert all CSP baseline payloads to CSP HD. All Gray Eagle platforms will be equipped with CSP HD once the retrofit plan has been fully executed.

CSP Target Location Accuracy (TLA) is the final upgrade to the current capability and provides all of the CSP HD functionality but with significantly improved targeting accuracy. CSP TLA provides the Battlefield Commander a vastly improved TLA allowing timely use of Joint Direct Attack Munitions (JDAMs) and Coordinate Seeking Weapons (CSWs) across the battlespace. CSP TLA is being procured as an upgraded capability for the Gray Eagle UAS program and can be integrated onto other manned and unmanned aerial platforms. All Gray Eagle platforms will be equipped with the CSP TLA capability.

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LI A00020 - MQ-1 Payload - UAS Army

Item Nomenclature*         Exhibits         CD         (\$K)         (Each)         (\$M)         (\$K)         (\$M)         (\$K)         (\$M)         (\$M)         (\$K)         (\$M)									UNG	CLASS	SIFIED	)									
2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:  Modification Of Aircraft  ID Code (A=Service Ready, B=Not Service Ready):  Program Elements for Code B Items:  Other Related Program Elements:  Item Schedule  Prior Years  FY 2011  FY 2012  FY 2013 Base  FY 2013 OCO  FY 2013 Total  Total Cost (SM)  (SK)  (Each)  (SK)	Exhibit P-40, Bu	ıdget Item Jı	ustifi	cation S	Sheet:	PB 201	3 Army									Date	: Febr	uary 201	12		
Item Schedule  Prior Years  FY 2011  FY 2012  FY 2013 Base  FY 2013 OCO  FY 2013 Total Cost  Init Cost  Qty  Total Cost  (\$ M)  (\$ K)  (\$ Each)  (\$ M)  (\$ K)  (\$ Each)  (\$ M)  (\$ K)  (\$ Each)  (\$ M)  (\$ K)  (\$ M)  (\$ M)	2031A : Aircraft F	Procurement,						aft / BS	A 10 :												
ID Unit Cost (\$\(\frac{\text{Qty}}{\(\chi \)}\) Total Cost (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \	ID Code (A=Service Rea	dy, B=Not Service Re	eady) :				Program	Elemen	ts for Cod	le B Item	s:			Oth	er Relate	d Progran	n Eleme	nts:			
ID Unit Cost (\$\(\frac{\text{Qty}}{\(\chi \)}\) Total Cost (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \)) (\$\(\chi \) (\$\(\chi \)) (\$\(\chi \																					
tem Nomenclature* Exhibits CD Will (SK) (SK) (Each) (SK) (SK) (Each) (SK) (SK) (Each) (SK) (Each) (SK) (Each) (SK) (SK) (SK) (Each) (SK) (SK) (Each) (SK) (SK) (SK) (SK) (SK) (SK) (SK) (SK	Item Sch	edule		Р	rior Yea	rs		FY 2011			FY 2012	2	F	/ 2013 Ba	ase	FY	′ 2013 O	со	FY	2013 T	otal
Total Gross/Weapon System Cost  *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.  *Justification:  FY 2013 base procurement dollars in the amount of \$231.508 million supports procurement of 32 STARLite ER, 32 CSP HD and 12 TSP payloads. This will be the first year CSP HD payloads (CSP baseline capability enhancement) will be procured with a retrofit plan starting FY 2014 to retrofit all of the previously procured CSP Baselines. CSP HD and STARLite payloads support the Gray Eagle UAS fielding schedule for the 8-15th Units Equipped (UE). Along with the CSP HD, STARLite ER and TSP procurement, the funding also procures spares, contractor support, initial fielding support, and Depot Facilitization.	Item Nomenclature*	Exhibits																			Total Cos
*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.  *Justification:  FY 2013 base procurement dollars in the amount of \$231.508 million supports procurement of 32 STARLite ER, 32 CSP HD and 12 TSP payloads. This will be the first year CSP HD payloads (CSP baseline capability enhancement) will be procured with a retrofit plan starting FY 2014 to retrofit all of the previously procured CSP Baselines. CSP HD and STARLite payloads support the Gray Eagle UAS fielding schedule for the 8-15th Units Equipped (UE). Along with the CSP HD, STARLite ER and TSP procurement, the funding also procures spares, contractor support, initial fielding support, and Depot Facilitization.	A00020 - MQ-1 Payload - UAS	P5, P5A, P21		-	-	-	-	-	83.556	-	-	146.983	-	-	231.508	-	-	-	-	-	231.508
*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.  Justification:  FY 2013 base procurement dollars in the amount of \$231.508 million supports procurement of 32 STARLite ER, 32 CSP HD and 12 TSP payloads. This will be the first year CSP HD payloads (CSP baseline capability enhancement) will be procured with a retrofit plan starting FY 2014 to retrofit all of the previously procured CSP Baselines. CSP HD and STARLite payloads support the Gray Eagle UAS fielding schedule for the 8-15th Units Equipped (UE). Along with the CSP HD, STARLite ER and TSP procurement, the funding also procures spares, contractor support, initial fielding support, and Depot Facilitization.						87.154			83.556			146.983			231.508			-			231.508
	There are no FY 20	013 OCO Procui	emen	t dollars.																	

LI A00020 - MQ-1 Payload - UAS Army

Exhibit P-5, Cost	An	alysis:	PB 2013	Army										ı	Date: Fe	ebruary 2	012		
<b>Appropriation / B</b> 2031A / BA 2 / BS			vity / Bu	idget Si	ub Activ	ity:	1		<b>Nomenc</b> l 1 Payload						Name, D	menclat OODIC): - MQ-1 F	•		r, Item
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	з осо	FY 2013	3 Total
Procurement Quantity	(Ead	ch)							-		-		-		-		-		_
Gross/Weapon System	ı Co	st (\$ in Mi	llions)						-		83.556	1	46.983		231.508		-		231.50
Less PY Advance Prod	cure	ment (\$ in	Millions)						-		-		-		-		-		_
Net Procurement (P1)	(\$ in	Millions)	-						-		83.556	1	46.983		231.508		-		231.50
Plus CY Advance Proc			Millions)						-		-		-		-		-		
Total Obligation Author									-		83.556	1	146.983		231.508		-		231.50
			(Th	e following	Resource S	ummary rows	s are for inf	ormational p	ourposes only	. The corre	sponding b	udget reques	ts are docu	ımented else	ewhere.)				
Initial Spares (\$ in Milli	ons)	)							-		-		-		-		-		-
Gross/Weapon System	ո Un	it Cost (\$ i	in Thousan	ıds)					-		-		-		-		-		-
		F	Prior Years	;		FY 2011	·		FY 2012		F	Y 2013 Bas	e	F'	Y 2013 O	co	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		(, ,	( /	(, ,	1 (, )	( /	(, )	(, )	( /	(, )	(, ,	( /	(, )	, ,	( /	(, )	, ,	( /	( )
Recurring Cost																			
† CSP Hardware		-	-	-	760.000	24	18.240	771.000	24	18.504	889.000	32	28.448	-	-	0.000	889.000	32	
CSP Battle Damaged Procurement		-	-	-	-	-	3.605	-	-	6.000	-	-	0.000	-	-	-	-	-	0.00
CSP HD Retrofit		-	-	-	-	-	0.000	-	-	0.000	-	-	6.437	-	-	0.000	-	-	6.43
CSP PMO Support		-	-	-	-	-	0.966	-	-	3.500	-	-	3.715	-	-	0.000	-	-	3.71
CSPProgram Management/ Eng Support		-	-	-	-	-	0.000	-	-	0.000	-	-	0.533	-	-	0.000	-	-	0.53
CSP Engineering Changes		-	-	-	-	-	0.000	-	-	1.782	-	-	3.033	-	-	0.000	-	-	3.00
CSP System Test & Eval		-	-	-	-	-	1.673	-	-	0.588	-	-	0.536	-	-	0.000	-	-	0.53
CSP Initial Spares		-	-	-	-	-	13.684	-	-	10.794	-	-	14.224	-	-	0.000	-	-	14.22
CSPInterim Contractor Support		-	-	-	-	-	10.008	-	-	5.977	-	-	0.385	-	-	0.000	-	-	0.38
CSP Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.025	-	-	0.000	-	-	3.02
CSP Depot Facilitization		-	-	-	-	-	0.000	-	-	6.000	-	-	4.000	-	-	0.000	-	-	4.00
CSP Technical Data Packages		-	-	-	-	-	0.000	-	-	15.798	-	-	33.486	-	-	0.000	-	-	33.48
† STARLite Hardware		-	-	-	684.000	25	17.100	711.000	24	17.064	759.000	32	24.288	-	-	0.000	759.000	32	24.28
			_	_		_	0.000	322.000	24	7.728	_	_	11.013	1	_	0.000	_	_	11.01

LI A00020 - MQ-1 Payload - UAS Army

UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
A00020 - MQ-1 Payload - UAS

A00020 - MQ-1 Payload - UAS

Date: February 2012

Item Nomenclature (Item Number, Item Name, DODIC):
A00020 - MQ-1 Payload - UAS

		F	Prior Years	 S		FY 2011			FY 2012		F'	Y 2013 Ba	se	F	Y 2013 OC	<u> </u>	F	/ 2013 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 Battle Damaged Procurement		-	-	-	-	-	0.000	-	-	4.800	-	-	0.000	-	-	-	-	-	0.00
STARLite PMO Support		-	-	-	-	-	0.976	-	-	3.500	-	-	2.794	-	-	0.000	-	-	2.79
Program Management/ Eng Support		-	-	-	-	-	0.746	-	-	0.276	-	-	0.251	-	-	0.000	-	-	0.25
Engineering Changes		-	-	-	-	-	0.690	-	-	1.956	-	-	2.619	-	-	0.000	-	-	2.61
System Test & Eval		-	-	-	-	-	1.473	-	-	0.588	-	-	0.274	-	-	0.000	-	-	0.27
Initial Spares		-	-	-	-	-	13.003	-	-	11.369	-	-	12.150	-	-	0.000	-	-	12.15
Interim Contractor Support		-	-	-	-	-	1.392	-	-	8.960	-	-	0.000	-	-	-	-	-	0.00
Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.011	-	-	0.000	-	-	3.01
Depot Facilitization		-	-	-	-	-	0.000	-	-	6.000	-	-	4.000	-	-	0.000	-	-	4.00
Technical Data Packages		-	-	-	-	-	0.000	-	-	15.799	-	-	33.486	-	-	0.000	-	-	33.48
† TSP Hardware		-	-	-	-	-	0.000	-	-	0.000	1,752.000	12	21.024	-	-	0.000	1,752.000	12	21.02
TSP Program Management/ Eng Support		-	-	-	-	-	0.000	-	-	0.000	-	-	4.586	-	-	0.000	-	-	4.58
TSP Engineering Changes		-	-	-	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.50
TSPSystem Test & Eval		-	-	-	-	-	0.000	-	-	0.000	-	-	3.370	-	-	0.000	-	-	3.37
TSP Initial Spares		-	-	-	-	-	0.000	-	-	0.000	-	-	2.080	-	-	0.000	-	-	2.08
Training		-	-	-	-	-	0.000	-	-	0.000	-	-	0.570	-	-	0.000	-	-	0.57
Data		-	-	-	-	-	0.000	-	-	0.000	-	-	4.340	-	-	0.000	-	-	4.34
TSP Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.330	-	-	0.000	-	-	3.33
Total Recurring Cost				0.000			83.556			146.983			231.508			0.000			231.50
Total Flyaway Cost				0.000			83.556			146.983			231.508			0.000			231.50
Gross Weapon System Cost				-			83.556			146.983			231.508			-			231.508

Remarks:

LI A00020 - MQ-1 Payload - UAS Army UNCLASSIFIED
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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

Date: February 2012

Item Nomenclature:
A00020 - MQ-1 Payload - UAS

			I		•						•	
Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†CSP Hardware		2011	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Jun 2011	Jun 2012	24	760.000	N		
†CSP Hardware		2012	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Mar 2012	Mar 2013	24	771.000	N		
†CSP Hardware		2013	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Mar 2013	Mar 2014	32	889.000	N		
†STARLite Hardware		2011	Northrop Grumman / Linthicum, MD	C / FFP	CECOM, APG	Apr 2011	Apr 2012	25	684.000	N		
†STARLite Hardware		2012	Northrop Grumman / Linthicum, MD	C / FFP	CECOM, APG	Mar 2012	Mar 2013	24	711.000	N		
†STARLite Hardware		2013	Northrop Grumman / Linthicum, MD	C / FFP	CECOM, APG	Mar 2013	Mar 2014	32	759.000	N		
†TSP Hardware		2013	BAE Systems / Nashua, NH	SS / FFP	CECOM, APG	Dec 2012	Dec 2013	12	1,752.000	N		

#### Remarks:

No funding or system procurement in FY 2011 or FY 2012 for TSP.

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Exhibit	t P-21	, Budge	et Pro	ducti	on So	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
		on / Bud 2 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:			L <b>ine I</b> 020 - I											1		encla MQ-1			UAS		
		Cost Eleme (Units in Ea									Fiscal Y	ear 201	2									ı	Fiscal Y	ear 201	3					
					BAL								Ca	lendar	Year 20	12								Calend	dar Yea	r 2013				
O MFR	FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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 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	J U	A U G	S E P	B A L
CSP Har	dware																						•							
1	2011	ARMY	24	0	24	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2					
1	2012	ARMY	24	0	24	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	1
1	2013	ARMY (1)	32	0	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	3
STARLite	Hardwa	are																												
2	2011	ARMY	25	0	25	-	-	-	-	-	-	2	2	2	2	2	2	3	2	2	2	2	2							
2	2012	ARMY	24	0	24	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	1
2	2013	ARMY (2)	32	0	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	3
TSP Hard	dware																													
3	2013	ARMY (3)	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	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	JUN	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 J	A U G	S E P	

		P-2 I	, Budge	et Pro	odu	ctic	on So	ched	ule:	PB	201	13 Ar	my													Date	: Feb	ruar	y 201	12				
03			on / Buc 2 / BSA		Act	ivity	y / B	udge	t Sı	b A	ctiv	vity:				Item I MQ-1											<b>Nom</b> 020 -				d - U	JAS		
			Cost Eleme										-	iscal Y	oar 20	14										iscal \	ear 201	5						
Т			(OIIIIS III Ea				BAL						•	10001 1	ou. 20		lendar	Year 2	014				_			10001	Calen		ar 201	5		-		
O F	/IFR	FY	SERVICE <sup>‡</sup>	PROC QTY	PRI	OR 1	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	t	J U L	A U G	S E P	
	Hard	ware																																
1		2011	ARMY	24		24	0																											
1		2012	ARMY	24		14	10	2		2	2	2	2																					
1		2013	ARMY (1)	32	:	0	32	-	-		-	-	-	3	3	3	3	3	3	3	3	2	2	2	2									
TA	RLite I	Hardwa	are				·									'																		
2			ARMY	25	_	25	0																											
2	_		ARMY	24		14	10	2		2	2	2	2													1								
2		2013	ARMY (2)	32		0	32	-	-		-	-	-	3	3	3	3	3	3	3	3	2	2	2	2									
_	Hardy																																	
3		2013	ARMY (3)	12	:	0	12	-	-		1	1	1	1	1	1	1	1	1	1	1	1												
								O C T	N O V		D   E   C	J A N	F E B	M A R	A P R	M A Y	J U N	U 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	N N	(	J U L	A U G	S E P	

LI A00020 - MQ-1 Payload - UAS Army

UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: A00020 - MQ-1 Payload - UAS	Item Nomenclature: A00020 - MQ-1 Payload - UAS

		PRODUC	CTION RATES (Unit	s/Year)		_	PI	ROCUREMENT LE	ADTIME (Month	s)	•	•
MFR						Initia	ıl			Reor	der	
Ref #	1	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	12	24	180	0	1	11	12	0	0	12	12
2	Northrop Grumman - Linthicum, MD	12	12	96	0	1	11	12	0	0	12	12
3	BAE Systems - Nashua, NH	12	24	72	6	2	12	14	0	2	12	14

#### Remarks:

LI A00020 - MQ-1 Payload - UAS Army

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>&</sup>lt;sup>(1)</sup>BASE

<sup>&</sup>lt;sup>(2)</sup>BASE

<sup>(3)</sup>BASE

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

A00025 - MQ-1 Weaponization - UAS

Modification Of Aircraft

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

Program Elements for Code B Items:

**Other Related Program Elements:** 

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	14.729	-	-	-	-	-	-	-	-	0.000	14.729
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	14.729	-	-	-	-	-	-	-	-	0.000	14.729
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	14.729	-	-	-	-	-	-	-	-	0.000	14.729
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### Description:

This budget line funds weaponization capabilities of Unmanned Aircraft Systems (UAS) such as the Gray Eagle UAS. Effort includes procurement of launchers, cables and rails from PM JAMS and all other government support required for full scale integration.

Item Sch	edule		Р	rior Yea	's		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	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)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
A00025 - MQ-1 Weaponization - UAS	P5		-	-	-	-	-	14.729	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					-			14.729			-			-			-			-

\*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.

#### Justification:

All COMPO 1 Active

**UNCLASSIFIED** 

								UN	CLASS	SIFIED									
Exhibit P-5, Cos	t An	alysis:	PB 2013	Army											Date: Fe	bruary 2	2012		
Appropriation / B 2031A / BA 2 / BS			ivity / Bu	ıdget Sı	ub Activ	ity:			<b>Nomeno</b> 1 Weapo		- UAS				Name, D	ODIC):	•	n Number zation - U	
		Resou	ırce Sun	nmary				Prior Ye	ears	FY 20	11	FY 20	12	FY 2013	Base	FY 201	3 OCO	FY 2013	3 Total
Procurement Quantity	/ (Ead	ch)							-		-		-		-		-		_
Gross/Weapon System	m Co	st (\$ in Mi	llions)						-		14.729		-		-		-		-
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	) (\$ ir	Millions)							-		14.729		-		-		-		-
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Author	ority (	\$ in Millio	ns)						-		14.729		-		-		-		-
			(The	e following	Resource S	ummary row	s are for in	formational <sub>l</sub>	purposes on	ly. The corre	sponding b	oudget reques	sts are docu	ımented els	ewhere.)		· · · · · · · · · · · · · · · · · · ·		
Initial Spares (\$ in Mil	lions	)							-		-		-		-		-		-
Gross/Weapon Syster	m Un	it Cost (\$	in Thousan	ıds)					-		-		-		-		-		-
		ı	Prior Years	;		FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 OC	Ю	F	Y 2013 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					'							'					1		
Recurring Cost	1							1		1					1				
Weaponization Effort - OGA		-	-	-	-	-	14.729	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Total Recurring Cost				0.000			14.729			0.000			0.000			0.000			0.000
Total Flyaway Cost				0.000			14.729			0.000			0.000			0.000			0.000
Gross Weapon System Cost				-			14.729			-			-			-			-
Remarks:																			

LI A00025 - MQ-1 Weaponization - UAS UNCLASSIFIED

Army Page 2 of 2 P-1 Line #19

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: 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:

37												
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **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 MOF & supporting ground equipment are migrating to DCGS-A between FY12 and FY14, to provide direct support to the Brigade Combat Teams (BCT). 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 to current GR operations in support of Operation New Dawn (OND) & Operation Enduring Freedom (OEF).

The GR/CS modernization effort provides A-Kits 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) Architecture Cooperative Operations. Enhanced Situational Awareness (ESA) provides modern airborne 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-MIDAS hardware architecture and capability to intercept and exploit special signals. ELINT is standardized in a P-Pod configuration on 14 aircraft and provides AQL processing B-Kits.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272

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P-1 Line #20

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AZ2000 - Guardrail Mods (MIP)

Modification Of Aircraft

ID Code (A=Service Read	dy, B=Not Service Re	ady) :				Program	Element	ts for Cod	le B Items	s:			Oth	er Relate	d Prograr	n Eleme	nts:			
Item Scho	edule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	ase	FY	′ 2013 O	co	FY	2013 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
Guardrail MODS MIP - 0	P3A		-	-	711.708	-	-	31.650	-	-	27.575	-	-	16.272	-	-	-	-	-	16.272
Total Gross/Weapon System Cost					711.708			31.650			27.575			16.272			-			16.272
				FY 2014			FY 2015	5		FY 2016			FY 2017	,	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
Guardrail MODS MIP - 0	P3A		-	-	10.262	-	-	8.311	-	-	11.806	-	-	5.272	-	-	-	-	-	-
Total Gross/Weapon System Cost					10.262			8.311			11.806			5.272			-			-

\*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.

#### Justification:

FY13 Base procurement funding in the amount of \$16.063 million retrofits first seven aircraft, resulting in the final GR Mod configuration on all 14 systems. 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 initial operations in support of Operation Enduring Freedom. FY 2013 is the completion of the integration and fielding of the Airborne Precision Geolocation (APG) subsystems on seven deployed aircraft which is also included in the Enhanced Situation Awareness (ESA) Subsystem Mod.

All COMPO 1 Active

LI AZ2000 - Guardrail Mods (MIP)
Army

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AZ2000 - Guardrail Mods (MIP)	Modification Nomenclature (Modification Title, Modification Number): Guardrail MODS MIP - 0

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

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	711.708	31.650	27.575	16.272	-	16.272	10.262	8.311	11.806	5.272	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

## **Description:**

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 2011	None	N/A

LI AZ2000 - Guardrail Mods (MIP) Army

Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP) (Modification Title, Modification Number):

Guardrail MODS MIP - 0

Models of Systems Affected: 1-14	Type Modification: 0							Related RDT&E PEs:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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 Cos
Procurement												
Enhanced Situational Awareness (ESA) Subsystem (1)												
A Kits												
Recurring												
NRE ESA	0	139.297	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Recur ESA B-Kit	29	89.548	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Recur A-Kit (Racks/Cable)	35	54.385	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Recur A-Kit (Airframe)	60	39.348	4	11.000	0	0.000	0	0.000	0	0.000	0	0.00
Recur Nav/Timing	35	20.848	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
NRE Data Link Air	34	25.664	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Recur Data Link Ground	0	1.830	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Spare ESA B-Kit	4	12.323	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Eng Lab Asset ESA B-Kit	2	4.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Aircraft Upgrade Cockpit	16	33.101	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
System Integration	0	10.100	3	8.600	4	11.700	0	0.000	0	0.000	0	0.00
Retrofit	0	0.000	0	0.000	0	0.000	7	7.563	0	0.000	7	7.56
Sys Assessment/Test Spt	0	12.002	0	1.500	0	1.500	0	1.500	0	0.000	0	1.50
Training Supt	0	2.900	0	1.500	0	0.000	0	1.500	0	0.000	0	1.50
Fielding (CHALS/ESA/HBC)	0	17.699	0	3.500	4	6.000	7	2.200	0	0.000	7	2.20
PM Support	0	68.444	0	4.550	0	6.875	0	3.509	0	0.000	0	3.50
Initial Spares Provision	0	3.951	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		536.340		30.650		26.075		16.272		0.000		16.2
Total, Enhanced Situational Awareness (ESA) Subsystem	215	536.340	7	30.650	8	26.075	14	16.272	0	0.000	14	16.2
Comm High Accuracy Location Sys-Compact (CHALS-C (2)			·			,						
A Kits												
Recurring												
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

LI AZ2000 - Guardrail Mods (MIP) Army

**UNCLASSIFIED** Page 4 of 23

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP) (Modification Title, Modification Number):

Guardrail MODS MIP - 0

Models of Systems Affected: 1-14	Type Modific					lated RD	T&E PE					
	Prio	Years	FY:	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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 Cos (\$ M)
Training Equipment		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Support Equipment	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
PM Support	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Comm High Accuracy Location Sys-Compact (CHALS-C		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Comm High Accuracy Location Sys-Compact (CHALS-C <sup>(3)</sup>												,
A Kits												
Recurring												
Recurring CHALS-C HW	30	16.632	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Manuals/Training Doc	(	0.676	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Production 1553 Cards	(	2.776	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Test Support		2.626	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Initial Spares		2.225	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
PM Support/TDY	(	0.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Integrate/Field Supt/Korea		1.318	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		26.853		0.000		0.000		0.000		0.000		0.00
Total, Comm High Accuracy Location Sys-Compact (CHALS-C	3.	26.853	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Special Signals (SS) Subsystem <sup>(4)</sup>												
A Kits												
Recurring												
NRE/Study		5.029	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Spare SS V3 B-Kits		0.406	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
X-Midas V.3	6	20.433	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		25.868		0.000		0.000		0.000		0.000		0.00
Total, Special Signals (SS) Subsystem	6	25.868	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Guardrail Ground Base (GGB) Station (5)												
A Kits												
Recurring										<u> </u>		

LI AZ2000 - Guardrail Mods (MIP) Army

**UNCLASSIFIED** Page 5 of 23

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2000 - Guardrail Mods (MIP)

Modification Nomenclature

(Modification Title, Modification Number):

Guardrail MODS MIP - 0

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

Models of Systems Affected: 1-14	Type Modification	Type Modification: 0						) I &E PES				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 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
Hardware	0	2.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Integration & Test	0	8.706	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Spares	0	0.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Docs	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Licenses/Hardware	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Hardware Data Link (Ground)	0	0.939	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		13.345		0.000		0.000		0.000		0.000		0.00
Total, Guardrail Ground Base (GGB) Station	0	13.345	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
High Band COMINT (HBC) Subsystem <sup>(6)</sup>												
A Kits		-				-						
Recurring		-										
Nonrecurring Engr	0	13.495	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Recurring HBC B-Kits	15	20.430	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
QRC-P Support	0	5.425	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Full B-Kit	19	26.408	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		65.758		0.000		0.000		0.000		0.000		0.00
Total, High Band COMINT (HBC) Subsystem	34	65.758	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Electronic Intelligence (ELINT) Subsystem (7)												
A Kits												
Recurring												
Recurring P-Pod	21	22.016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Non-Recurring	0	4.090	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Spare AQL Process B-Kits	33	4.398	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		30.504		0.000		0.000		0.000		0.000		0.00
Total, Electronic Intelligence (ELINT) Subsystem	54	30.504	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Airborne Precision Geolocation (APG) (8)												_
A Kits												
Recurring												

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED Page 6 of 23

P-1 Line #20

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Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP)

(Modification Title, Modification Number):

Guardrail MODS MIP - 0

Date: February 2012

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

	. , ,											
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	13 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-Kit	0	3.387	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
APG B-Kit	0	6.655	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
APG B-Kit Spare	0	1.476	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		11.518		0.000		0.000		0.000		0.000		0.000
Total, Airborne Precision Geolocation (APG)	0	11.518	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total, All Modifications		710.186		30.650		26.075		16.272		0.000		16.272
Procurement Cost (Procurement + Support)		710.186		30.650		26.075		16.272		0.000		16.272
Total Installation Cost		1.522		1.000		1.500		0.000		0.000		0.000
Total Cost (Procurement + Support + Installation)		711.708		31.650		27.575		16.272		0.000		16.272

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M)						
Procurement												
Enhanced Situational Awareness (ESA) Subsystem (1)												
A Kits												
Recurring												
NRE ESA	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	139.2
Recur ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	29	89.5
Recur A-Kit (Racks/Cable)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	54.3
Recur A-Kit (Airframe)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	64	50.3
Recur Nav/Timing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	20.8
NRE Data Link Air	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	25.6
Recur Data Link Ground	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.8
Spare ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	12.3
Eng Lab Asset ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	4.9
Aircraft Upgrade Cockpit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	33.1
System Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	30.4
Retrofit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	7.5

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP) (Modification Title, Modification Number):
Guardrail MODS MIP - 0

Models of Systems Affected: 1-14	Type Modifica				Related RDT&E PEs:							
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
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 Cos
Sys Assessment/Test Spt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.50
Training Supt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.9
Fielding (CHALS/ESA/HBC)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	11	29.39
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	83.3
Initial Spares Provision	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.9
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		609.3
Total, Enhanced Situational Awareness (ESA) Subsystem	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	244	609.3
Comm High Accuracy Location Sys-Compact (CHALS-C (2)												
A Kits												
Recurring												
Installation Kits	0	2.699	0	2.600	0	6.500	0	1.623	0	0.000	0	13.4
Equipment	0	2.100	0	1.700	0	1.144	0	1.199	0	0.000	0	6.1
Training Equipment	0	2.000	0	1.100	0	1.000	0	1.025	0	0.000	0	5.1
Support Equipment	0	2.500	0	1.800	0	1.500	0	0.925	0	0.000	0	6.7
PM Support	0	0.963	0	1.111	0	1.662	0	0.500	0	0.000	0	4.2
Subtotal Recurring		10.262		8.311		11.806		5.272		0.000		35.6
Total, Comm High Accuracy Location Sys-Compact (CHALS-C	0	10.262	0	8.311	0	11.806	0	5.272	0	0.000	0	35.6
Comm High Accuracy Location Sys-Compact (CHALS-C (3)												
A Kits												
Recurring												
Recurring CHALS-C HW	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	30	16.6
Manuals/Training Doc	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.6
Production 1553 Cards	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.7
Test Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.6
Initial Spares	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	2.2
PM Support/TDY	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.6
Integrate/Field Supt/Korea	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.3
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		26.8

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
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P-1 Line #20

Date: February 2012

Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP)

**Modification Nomenclature**(*Modification Title, Modification Number*):

Guardrail MODS MIP - 0

Date: February 2012

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

wodels of Systems Affected: 1-14	Type Modific				Re	Related RDT&E PES:						
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos								
Total, Comm High Accuracy Location Sys-Compact (CHALS-C	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	26.8
Special Signals (SS) Subsystem <sup>(4)</sup>												
A Kits												
Recurring												
NRE/Study	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.02
Spare SS V3 B-Kits	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.4
X-Midas V.3	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	66	20.4
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		25.8
Total, Special Signals (SS) Subsystem	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	66	25.8
Guardrail Ground Base (GGB) Station (5)												,
A Kits										1		
Recurring										,		
Hardware	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.3
Integration & Test	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.7
Spares	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.4
Docs	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.5
Licenses/Hardware	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.5
Hardware Data Link (Ground)	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.9
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		13.3
Total, Guardrail Ground Base (GGB) Station	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.3
High Band COMINT (HBC) Subsystem (6)												
A Kits												
Recurring												
Nonrecurring Engr	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.49
Recurring HBC B-Kits	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	20.4
QRC-P Support	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.4
Full B-Kit	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	19	26.4
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		65.7

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

Models of Systems Affected: 1-14	Type Modific	ation: 0				Re	lated RD	T&E PE	s:			
	FY	2014	FY :	2015	FY 2	2016	FY 2	017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost
Total, High Band COMINT (HBC) Subsystem	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	65.75
Electronic Intelligence (ELINT) Subsystem (7)												
A Kits		_										
Recurring												
Recurring P-Pod	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	21	22.016
Non-Recurring	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.090
Spare AQL Process B-Kits	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	33	4.398
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		30.50
Total, Electronic Intelligence (ELINT) Subsystem	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	54	30.50
Airborne Precision Geolocation (APG) (8)												
A Kits												
Recurring												
A-Kit	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.387
APG B-Kit	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.65
APG B-Kit Spare	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.476
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		11.51
Total, Airborne Precision Geolocation (APG)	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	11.51
Total, All Modifications		10.262		8.311		11.806		5.272		0.000		818.83
Procurement Cost (Procurement + Support)		10.262		8.311		11.806		5.272		0.000		818.83
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		4.02.
Total Cost (Procurement + Support + Installation)		10.262		8.311		11.806		5.272		0.000		822.856

#### Remarks:

Justification: FY13 funding provides program management support, system integration and test, New Equipment Training (NET) and fielding of aircraft 11-14 with ESA, SS, CHALS-C & HBC, plus retrofit of aircraft 1-10 with new data link and airborne precision geolocation subsystems.

LI AZ2000 - Guardrail Mods (MIP)

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<sup>(1)-</sup>The ESA Upgrade provides a Modern Airborne Communication Intelligence (COMINT) Subsystem on 14 GRCS aircraft plus spares; provides a capability against modern commercial targets; & allows GRCS to remain relevant against emerging OEF/OIF/OND threats. The ESA upgrade replaces the current 1980's subsystems with a Net-Centric Sustainable Architecture capable of mapping the modern signal environment & provides the software on the ground to enable sensor control & signal exploitation tools. ESA includes the integration, test & fielding for CHALS-C, High Band COMINT (HBC), Special Signals (SS); integration of X-Midas, & Data Link equipment.

Exhibit P-3A, Individual Modification: PB 2013	Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub A 2031A / BA 2 / BSA 10	AZ2000 - Guardrail Mods (MIP)	Modification Nomenclature (Modification Title, Modification Number): Guardrail MODS MIP - 0
Models of Systems Affected: 1-14	Type Modification: 0	Related RDT&E PEs:

(2) As SIGINT threats continue to evolve, the Guardrail (GR) capabilities will keep pace to allow for effective prosecution of high priority emitter. The capability upgrade effort is to perform modifications to the GR Mod payload to insert primarily off-the-shelf improved technologies in both hardware and software for more efficient and effective system operation. Commercial technology improvements, as well as advancements from other DoD programs, will be incorporated into the GR Mod system. The intent of these improvements is to reduce overall space, weight, and power consumption of the payload, while reaping the benefits of improved technologies in system operations. Enhancements will primarily be software upgrades, that can be installed in the field.

Justification: There is no FY13 funding request.

(3) CHALS-C will provide commercial off-the-shelf hardware for Guardrail, resulting in enhanced precision geo-location capability to the warfighter. CHALS-C extends the frequency range of GRCS precision geo-location of high value threats and supports Theater Net-Centric Geolocation (TNG) Architecture Cooperative Operations. Without these critical upgrades, the system will not remain relevant as evolving technology begins to exceed current capabilities. The goal is to install CHALS-C on all GR/CS Modernization Aircraft (14), spares (4) plus 1 Depot asset. The upgrade reduces size and weight, increases frequency coverage and throughput, while providing data archiving for improved performance and TNG Cooperative Operations.

Justification: There is no funding request for FY13.

(4) The Special Signals Modernization effort provides capability to intercept special signals through evolution of the current X-Midas capability. Special Signal efforts will include production, integration and testing of X-Midas V3 hardware required to provide capability against unique signals. This also includes modification to ground software to enable sensor control and signal exploitation tools. Design, architecture, and antennas to support Special Signal capability are included in the ESA architecture fieldings in conjunction with ESA. Each aircraft will be equipped with two processors. Funding for SS provides for 14 B-kits which consists of 2 processors in each B-Kit. Installation schedule represents GR Modernization Aircraft only.

Justification: There is no funding request for FY13.

(5)Baseline GR/CS Ground Processing for all four GRCS Systems; provides Common Hardware and Software Baselines; supports full functionality of existing Integrated Processing Facilities (IPF); minimizes footprint and improves deployability; supports split-based operations; and provides migration path to Distributed Common Ground Station System-Army (DCGS-A). GGB 2.0 is interoperable with all legacy GR/CS configurations. GGB 3.0 adds interoperability with GR Mod Aircraft.

Justification: There is no funding request for FY13.

(6) The High Band COMINT (HBC) Upgrade provides for continued capability to intercept, locate, and exploit high frequency Communication Intelligence (COMINT) signals, including critical modern signals. HBC efforts will include production, integration, and testing of hardware. This also includes modifications to ground software to enable sensor control and incorporate signal exploitation tools. Design, architecture, and antenna to support HBC capability will be included within ESA architecture efforts, as well as fielding in conjunction with ESA. Funding for HBC provides B-Kits for GR Moderization Aircraft and two spares. HBC provides greatly enhanced capabilities against Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) modern threat signals.

Justification: There is no funding request for FY13.

(7) This effort standardizes the ELINT Airborne Quick Look (AQL) Processing hardware B-Kits for 14 Aircraft. This upgrade migrates airborne processing software into ESA's Commerical Based Architecture. This results in improved processing speed and higher signal throughput, while reducing aircraft weight, and improving system sustainment. P-Pods will be procured for 5 Aircraft. The fourteen GR Modernization aircraft will have AQL B-Kits and P-Pods.

Justification: There is no funding request for FY13.

(8) This effort incorporates the Airborne Precision Geolocation (APG) subsystem developed by NSA into fourteen GRCS RC-12X aircraft to support the collection of OCO threat signals. The APG capability was developed by NSA to GRCS. This capability provides a unique capability to collect against modern OCO threat signals.

Justification: There is no funding request for FY13.

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Exhibit P-3A, Indivi	dual Modification: P	B 2013 Army				Date: February 2012	
Appropriation / Bud 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity:	P-1 Line Item No AZ2000 - Guardra			Modification Nomer (Modification Title, M Guardrail MODS MIF	odification Number)
Models of Systems	Affected: 1-14	Туј	oe Modification: 0		Related R	DT&E PEs:	
Manufacturer Information	on: Enhanced Situational	Awareness (ESA) Sul	osystem				
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (	in Months): 3			Production Leadtime (in M	lonths): 12		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Comm High Accuracy	Location Sys-Compa	ct (CHALS-C				
Manufacturer Name: TBD	)			Manufacturer Location: TB	BD		
Administrative Leadtime (	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Comm High Accuracy	Location Sys-Compa	ct (CHALS-C	<u> </u>		·	
Manufacturer Name: Lock	cheed Martin			Manufacturer Location: Ov	vego, NY		
Administrative Leadtime (	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Special Signals (SS) S	Subsystem				•	
Manufacturer Name: Zeta	Associates			Manufacturer Location: Fa	irfax, VA		
Administrative Leadtime (	(in Months): 3			Production Leadtime (in M	lonths): 12		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Guardrail Ground Bas	e (GGB) Station	'	'		'	
Manufacturer Name: CAC				Manufacturer Location: Fa	lls Church, VA		
Administrative Leadtime (	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

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Exhibit P-3A, Indivi	idual Modification: P	B 2013 Arı	my							Da	<b>ate:</b> Febru	ary 2012		
Appropriation / Bud 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Act	ivity:			<b>lomencla</b> Irail Mods				(A	<b>odificatio</b> <i>Iodification</i> uardrail M	n Title, Mo	dification I	Number):
Models of Systems	Affected: 1-14		Ту	pe Modific	ation: 0				Relat	ed RDT&E	PEs:			
Manufacturer Information	on: High Band COMINT (F	IBC) Subsys	tem						·					
Manufacturer Name: Boe	ing-Radix					Manu	ufacturer Loca	ation: Mounta	in View, CA	1				
Administrative Leadtime	(in Months): 3					Prod	uction Leadtii	me (in Months	s): 12					
Dates	FY 2011	FY	2012		FY 2013		FY 2014		FY 201	5	FY 201	16	FY 20	017
Contract Dates														
Delivery Dates														
Manufacturer Information	on: Electronic Intelligence	e (ELINT) Sul	bsystem											
Manufacturer Name: North	throp Grumman					Manu	ufacturer Loca	ation: Sacram	ento, CA					
Administrative Leadtime	(in Months): 3					Prod	uction Leadtii	me (in Months	s): 12					
Dates	FY 2011	FY	2012		FY 2013		FY 2014		FY 201	5	FY 201	16	FY 20	017
Contract Dates														
Delivery Dates														
Manufacturer Information	on: Airborne Precision Ge	eolocation (A	PG)											
Manufacturer Name: Nort	throp Grumman					Manu	ufacturer Loca	ation: Sacram	ento, CA					
Administrative Leadtime	(in Months): 3					Prod	uction Leadtii	me (in Months	s): 12					
Dates	FY 2011	FY	2012		FY 2013		FY 2014		FY 201	5	FY 201	16	FY 20	017
Contract Dates														
Delivery Dates														
Installation: Enhanced 9	Situational Awareness (ESA	) Subsystem	Ma	thod of Imple	amontation:				Inetalls	ation Name:				
motanation Emilianosa s	Made National / Walternood (EG/			Years	FY 2		FY :	2012		I3 Base	FY 201	3 000	FY 201	3 Total
			Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
Installation Cost			(Each)	(\$ M ) 0.510	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000
All Prior Years			6		3	1.000			0	1	0		0	0.000
FY 2011 FY 2012			7		0	0.000		1.500	0		0		0	0.000
FY 2012 FY 2013			6		0	0.000			0		0		0	0.000
FY 2013		0		0	0.000			0		0		0	0.000	
FY 2014 FY 2015			0		0				0		0		0	0.000
FY 2016			0		0				0		0		0	0.000
FY 2017			0		0				0		0		0	0.000

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Exhi	bit P	-3A, I	ndiv	idu	ıal Modi	ficati	on: P	B 2	2013 Aı	my														I	Dat	t <b>e:</b> Feb	ruar	y 201	2				
		ation A 2 / I			et Activi	ity / E	Budge	t S	ub Ac	tivity	<b>/</b> :		<b>P-1 L</b> AZ20												(Мо	<b>dificat</b> o <i>dificat</i> ardrail	ion 7	Title, I	Мос	dificatio	n N	luml	per):
Mod	els o	f Sys	tems	A	ffected:	1-14					Тур	e V	lodifi	catio	<b>n:</b> 0							Rela	atec	RDT8	ÆΕ	PEs:							
Instal	lation	: Enhar	iced S	Situa	ational Awa	arenes	s (ESA	) Sul	ıbsystem	<u> </u>	Met	hod	of Impl	emen	tation:							Insta	allatio	on Name	):								
										Р	rior \	<b>Years</b>	<u> </u>		FY 2	2011			FY 2	012		FY 2	2013	Base		FY 2	013 (	ОСО		FY	2013	3 Tota	al
Instal	lation	Cost								Qty (Each	)		I Cost		Qty ach)		Cost M)	Qty (Eac		Total (		Qty (Each)		Total Cost		Qty (Each)	1	otal Cos	st	Qty (Each)			Cost
To Co	mplete	)									0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
Total											29		1.522		3		1.000		4		1.500		0	0.00	00		0	0.0	000		0		0.000
											FY 2	014			FY 2	2015			FY 2	016		F	Y 20	17		То С	omp	lete			Tot	al	
Instal	lation	Cost								Qty (Each	)		I Cost		<b>Qty</b> ach)		Cost	Qty (Eac		Total (		Qty (Each)		Total Cost		Qty (Each)	1	otal Cos	st	Qty (Each)			Cost
All Pri	or Yea	ırs									0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		10		0.510
FY 20	11										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		9		1.314
FY 20	12										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		11		1.873
FY 20	13										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		6		0.325
FY 20	14										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
FY 20	15										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
FY 20	16										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
FY 20	17										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
To Co	mplete	•									0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
Total											0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		36		4.022
Instal	lation	Sched	ule								_		_																				
			FY	201	11		FY 2	2012	2			FY 2	013			FY 2	2014			FY	2015			FY 20	)16			FY	201	17			
	APY	1	2	+	3 4	1	2	3	_	1	_	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3 4	_	TC	Tot
In	-	14	(	_	0 0			_			0	0	0	0	0	0			C		+	0 0	0			0 0			0	0	0	0	14
Out	-	0	(	)	4 3	C	3		0	ס	4	0	0	0	0	0	0	0	(	0		0 0	0	0 0	(	0 0	(	) כ	0	0	0	0	14
Instal	lation	Comm	n High	Ac	curacy Loc	cation	Sys-Co	mpa	act (CHA	LS-C	Met	hod	of Impl	emen	tation:	TBD						Insta	allatio	on Name	<b>)</b> :								
										Р	rior \	<b>Years</b>	5		FY 2	2011			FY 2	012		FY 2	2013	Base		FY 2	013 (	СО		FY	2013	3 Tota	al
Install	lation	Cost								Qty (Each	)		I Cost		Qty ach)		Cost M)	Qty (Eac		Total (		Qty (Each)		Total Cost		Qty (Each)	1	otal Cos	st	Qty (Each)			Cost
All Pri	or Yea	rs									0		0.000		0		0.000		0	-	0.000		0	0.00	00		0		000		0		0.000
FY 20	11										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
FY 20	12										0		0.000		0		0.000		0		0.000		0	0.00	00		0	0.0	000		0		0.000
	0000				4 1 /84	D)									LINIC	`	COIL	HED															

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP) (Modification Title, Modification Number): Guardrail MODS MIP - 0 Models of Systems Affected: 1-14 Type Modification: 0 Related RDT&E PEs: Installation: Comm High Accuracy Location Sys-Compact (CHALS-C | Method of Implementation: TBD Installation Name: FY 2012 **FY 2013 OCO Prior Years** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) FY 2013 0.000 0.000 0.000 0.000 0.000 0.000 0 0 0 FY 2014 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 Total 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 FY 2017 Total To Complete Qty Total Cost Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Installation Cost** (\$ M) (\$ M) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) 0.000 0.000 0.000 All Prior Years 0 0.000 0 0 0.000 0 0.000 FY 2011 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2017 0 0 0 0 0.000 0.000 0 0.000 0.000 0.000 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Total 0.000 0.000 0.000 0.000 0 0.000 0 0.000 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016 FY 2017 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 0 In 0 0 0 0 Out 0

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AZ2000 - Guardrail Mods (MIP)

Modification Nomenclature

(Modification Title, Modification Number):

Guardrail MODS MIP - 0

Models of Systems Affected: 1-14

Type Modification: 0

Related RDT&E PEs:

Installation: Comm High Accuracy Location Sys-Compact (CHALS-C under the ESA Modification

**Method of Implementation:** Installation and fielding of the B-Kits

ESA Modification Installation Name:

mistaliation. Commit riight Accuracy Location Sys-Compa	ict (Ol IALO-O Julio		iodiliodiloli				motana	lion Name.				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army	/	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activi 2031A / BA 2 / BSA 10	ity: P-1 Line Item Nomenclature: AZ2000 - Guardrail Mods (MIP)	Modification Nomenclature (Modification Title, Modification Number): Guardrail MODS MIP - 0
Models of Systems Affected: 1-1/	Type Modification: 0	Related RDT&F PFs

Method of Implementation: Installation and fielding of the B-Kits

Installation: Comm High Accuracy Location Sys-Compact (CHALS-C under the ESA Modification Installation Name:

#### Installation Schedule

			FY 2	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	12	2	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	14
Out	-	0	0	4	3	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

Method of Implementation: Production, integration, and testing of X-Installation: Special Signals (SS) Subsystem Midas V3 hardware. **Installation Name:** 

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	То	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2000 - Guardrail Mods (MIP) Army

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P-1 Line #20

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Exhibit P-3A, Individual Modification: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A / BA 2 / BSA 10AZ2000 - Guardrail Mods (MIP)(Modification Title, Modification Number):<br/>Guardrail MODS MIP - 0Models of Systems Affected: 1-14Type Modification: 0Related RDT&E PEs:

Method of Implementation: Production, integration, and testing of X-

installation: Special Signals (SS) Subsystem	IVIIC	as v3 nardw	are.				instalia	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	0	C		7	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	14
Out	-	0	C	) 4	3	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

Method of Implementation: Provide Hardware/Software upgrades to Installation: Guardrail Ground Base (GGB) Station Installation Name:

Installation: Guardrail Ground Base (GGB) Station	tne	GGB.					Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 Total	
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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	0.00
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army **Date:** February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2000 - Guardrail Mods (MIP) (Modification Title, Modification Number): Guardrail MODS MIP - 0 Models of Systems Affected: 1-14 Type Modification: 0 Related RDT&E PEs: Method of Implementation: Provide Hardware/Software upgrades to the GGB Installation: Guardrail Ground Base (GGB) Station Installation Name: FY 2014 FY 2015 FY 2016 **FY 2017** To Complete Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Total Cost Total Cost** Qty Qty **Installation Cost** (Each) (\$ M) (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years 0 0.000 0.000 0.000 0.000 0 0.000 0 FY 2011 0 0 0.000 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 Ω FY 2013 FY 2014 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2016 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0 To Complete 0.000 0 0.000 0.000 0.000 0.000 0 0.000 0 Total 0.000 Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 2 2 2 **APY** 1 4 1 4 1 4 1 1 3 4 1 4 TC Tot 0 In 0 Out Method of Implementation: Production, integration, and testing of Installation: High Band COMINT (HBC) Subsystem Installation Name: hardware. **FY 2013 OCO** FY 2011 FY 2012 FY 2013 Total **Prior Years FY 2013 Base** Qty **Total Cost Total Cost** Qty **Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Installation Cost (Each) (\$ M) All Prior Years 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2011 0 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 FY 2013 0 0.000 0 0 0 0.000 0.000 0 0 0 FY 2014 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0 FY 2015 0 0.000 0 Ω 0 0.000 UNCLASSIFIED

LI AZ2000 - Guardrail Mods (MIP) Army

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P-1 Line #20

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Exh	Appropriation / Budget Activity / Budget Sub Activity:  P-1 Line Item Nomenclature:																Date: February 2012														
	ropria 1A / B				Activi	ty / B	udge	t Sub	Acti	vity:					<b>lome</b> drail M									(Mod	lificati	ion Ti	lomen itle, Mo	difica		Numb	ber):
Mod	lels of	Sys	tems	Affe	cted:	1-14				T	ype N	/lodifi	catio	<b>n</b> : 0							Rel	ated	RDT8	EΡ	Es:						
Installation: High Band COMINT (HBC) Subsystem									l <b>ethod</b> ardwar	•	lemen	itation	: Produ	ıction, i	ntegra	tion, a	nd testii	ng of	Insta	allatio	on Name	):									
							Prior Yea				FY 2	2011			FY 20	012		FY 2	2013 E	Base		FY 2	013 O	СО		FY 201	3 Tota	al			
Installation Cost					<b>Qty</b> (Each)		al Cost		Qty ach)	Total (\$ /		Qty (Eac		Total Co		Qty (Each)		Total Cost		Qty (Each)		otal Cost		Qty ach)		I Cost					
FY 20	016										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	)17										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
To Co	omplete										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
Total											0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
							FY	2014			FY 2	2015			FY 20	016		F	Y 201	17		To C	omple	ete		То	tal				
Insta	llation (	Cost								Qty (Each)		al Cost		Qty ach)	Total (\$ /		Qty (Eac		Total Co		Qty (Each)		Total Cost		Qty (Each)		otal Cost		Qty ach)		I Cost
All Pr	ior Year	s								·	0	0.000	<u> </u>	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.000		0		0.000		0	0.00	00	. ,	0	0.000		0	-	0.00
FY 20	)11										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	)12										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	013										0	0.000		0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	)14										0	0.000		0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	)15										0	0.000		0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	016										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
FY 20	)17										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
To Co	omplete										0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
Total											0	0.000	)	0		0.000		0	C	0.000		0	0.00	00		0	0.000		0		0.00
Insta	llation S	Sched	ule																												
FY 2011 FY 2012							FY 2	2013			FY 2	014			FY 2015			FY 201		016			FY 20	2017							
	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	12	2	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	14
Out	7	0	0	4	3	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	14

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AZ2000 - Guardrail Mods (MIP)

(Modification Title, Modification Number):

Guardrail MODS MIP - 0

Models of Systems Affected: 1-14

Type Modification: 0

Related RDT&E PEs:

Installation: Electronic Intelligence (ELINT) Subsystem

Method of Implementation: Processing Hardware B-Kits for 14

Installation Name:

installation: Electronic intelligence (ELINT) Subsystem	and	гап.					IIIStalia	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	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	
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	

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														UNC	JLA	SSIF	·IFD														
Exh	ibit P-	3A, I	ndivid	lual l	Modif	fication	n: PE	3 201	3 Arr	ny														ate	: Feb	ruary	2012				
	oropria 1A / B				Activi	ty / B	udget	Sub	Acti	vity:					<b>Nome</b> drail M		ture: (MIP)						(	Mod	lificati	ion Ti	omen tle, Mo S MIP	difica		Num	ber):
Мо	dels of	Sys	tems .	Affec	cted:	1-14				T	ype N	lodifi	catio	n: 0							Re	ated	RDT&	E PE	Es:						
Inote	ıllation:	Electr	onio Inte	alliaan	.oo /EI	INIT\ C	uhovoto	·m			ethod o	of Imp	lemen	itation	: Proce	essing	Hardwa	are B-	Kits fo	or 14	Inot	allatio	on Name:								
	Illation			elligeri	ce (LL	.1141) 3	ubsysie	;iii		ai	iciait.										11130	anaut	Jii Naille.	_							
		J01104	FY 2	011			FY 2	012			FY 2	013			FY 2	2014			F	Y 2015			FY 20	16			FY 20	)17			
	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	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	О	)	0	0 0	0	0	0	0	0	0	0	0	0	14
Out	7	0	0	4	3	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	14
Insta	ıllation:	Airbor	ne Pred	ision (	Geoloc	ation (	APG)				ethod (	•			: Incorp	oorate	the AP	G sub	syste	m into	Inst	allatio	on Name:	:							
										Prio	r Years	;		FY :	2011			FY 2	2012		FY	2013	Base		FY 2	013 O	СО		FY 20	13 Tot	al
Insta	ıllation	Cost								Qty (Each)		I Cost		Qty ach)	Total (\$ /		Qty (Eac			I Cost	Qty (Each)		Total Cost		Qty (Each)		tal Cost		Qty ach)		I Cost
All P	rior Yea	s								· /	0	0.000	<u> </u>	0		0.000	(====	0	(+	0.000	(====)	0	0.000		· · ·	0	0.000	· ·	0	+	0.000
FY 2	011										0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
FY 2	012										0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
FY 2	013										0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
FY 2	014										0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
FY 2	015										0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
FY 2	016										0	0.000	1	0		0.000		0		0.000		0	0.000	0		0	0.000		0		0.000
FY 2	017										0	0.000	)	0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000
To C	omplete										0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
Tota											0	0.000		0		0.000		0		0.000		0	0.000	0		0	0.000	<u></u>	0	)	0.000
										EV	2014		1	EV 4	2015			FY 2	016			Y 20	17		To C	omple	nto.		—	otal	
		_								Qty		l Cost		Qty	Total	Cost	Qty			I Cost	Qty		Total Cost		Qty		tal Cost	-	Qty		l Cost
	Illation									(Each)	0 (\$	0.000	+ ·	ach) 0	(\$ 1	<i>M)</i> 0.000	(Eac	<i>h)</i> 0	(\$	<i>M</i> )	(Each)	0	(\$ M ) 0.000	_	(Each)	0	(\$ M ) 0.000	<u> </u>	ach) 0	+ -	0.000
FY 2	rior Yea	S									0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2									-		0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2											0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2											0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0	)	0.000
FY 2											0	0.000	,	0		0.000		0		0.000		0	0.000	0		0	0.000		0	)	0.000

LI AZ2000 - Guardrail Mods (MIP) Army

**UNCLASSIFIED** 

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

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

Method of Implementation: Incorporate the APG subsystem into
Installation: Airborne Precision Geolocation (APG)

Installation Name:

instantation: All borne i recision decideation (Al G)	Oiv	100 NO-12/N	an Grant.				motana	tion Haine.				
	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	T	otal
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 )
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	(	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	(	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	(	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	(	0.000

### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	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	5	2	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Out	-	0	0	0	0	0	0	4	3	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

LI AZ2000 - Guardrail Mods (MIP) Army

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :

AZ2001 - Multi Sensor ABN Recon (MIP)

Modification Of Aircraft

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

Progran	n Elements	for Code	B Ite	ems:	
					_

Other Related Program Elements:

	Prior			FY 2013	FY 2013	FY 2013					То	1
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	573.247	103.084	62.862	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	573.247	103.084	62.862	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	573.247	103.084	62.862	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ 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 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), SOUTHCOM, and Republic of Korea (ROK).
- (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).

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	103.084	62.862	4.294	-	4.294	4.807	116.138	145.668	148.158

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

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AZ2001 - Multi Sensor ABN Recon (MIP)

Modification Of Aircraft

ID Code (A=Service Read	y, B=Not Service Re	ady) :				Program	Element	s for Cod	e B Items	<b>::</b>			Oth	er Related	d Progran	n Eleme	nts:			
Item Sche	edule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	ase	FY	2013 O	СО	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cos												
*** (See enclosed P-40A)	P40A				0.000			86.200			54.500			0.000			0.000			0.000
ARL Mod-In-Service - 000	P3A		-	-	573.247	-	-	16.884	-	-	8.362	-	-	4.294	-	-	-	-	-	4.294
Total Gross/Weapon System Cost					573.247			103.084			62.862			4.294			-			4.294
				FY 2014			FY 2015	i		FY 2016			FY 2017	,	To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
*** (See enclosed P-40A)	P40A				0.000			0.000			0.000			0.000			0.000			0.000
ARL Mod-In-Service - 000	P3A		-	-	4.807	-	-	116.138	-	-	145.668	-	-	148.158	-	-	-	-	-	-
Total Gross/Weapon System Cost					4.807			116.138			145.668			148.158			-			-

\*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.

#### Justification:

FY13 Base procurement dollars in the amount of \$4.294 million supports the procurement of interoperability data links and installation, procurement of workstation architecture software for the ARL Modernization Program. This modernization and standardization effort represents critical technology insertions to improve system capability, target relevance, and improves the system long term sustainability. The upgrades provide critical capability, target relevance, and improves the ARL's long term sustainability.

There is no FY13 OCO request.

All COMPO 1 Active

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

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

2031A / BA 2 / BSA 10 AZ2001 - Multi Sensor ABN Recon (MIP)

(Modification Title, Modification Number):

ARL Mod-In-Service - 000

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

Prior Years			FY 2013	FY 2013	EV 0040					_	
Icais	FY 2011	FY 2012	Base	OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
-	-	-	-	-	-	-	-	-	-	-	-
573.247	16.884	8.362	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
573.247	16.884	8.362	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
573.247	16.884	8.362	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
ng Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented els	sewhere.)			
-	-	-	-	-	-	-	-	-	-	-	-
n,	573.247 - 573.247 - 573.247	573.247 16.884  573.247 16.884  573.247 16.884	573.247       16.884       8.362         -       -       -         573.247       16.884       8.362         -       -       -         573.247       16.884       8.362	573.247     16.884     8.362     4.294       -     -     -       573.247     16.884     8.362     4.294       -     -     -       573.247     16.884     8.362     4.294	573.247     16.884     8.362     4.294     -       -     -     -     -       573.247     16.884     8.362     4.294     -       -     -     -     -       573.247     16.884     8.362     4.294     -	573.247       16.884       8.362       4.294       -       4.294         -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294         -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294	573.247       16.884       8.362       4.294       -       4.294       4.807         -       -       -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294       4.807         -       -       -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294       4.807	573.247       16.884       8.362       4.294       -       4.294       4.807       116.138         -       -       -       -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294       4.807       116.138         -       -       -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294       4.807       116.138	573.247       16.884       8.362       4.294       -       4.294       4.807       116.138       145.668         -       -       -       -       -       -       -       -       -         573.247       16.884       8.362       4.294       -       4.294       4.807       116.138       145.668         -       -       -       -       -       -       -       -       -	573.247       16.884       8.362       4.294       -       4.294       4.807       116.138       145.668       148.158         -	573.247       16.884       8.362       4.294       -       4.294       4.807       116.138       145.668       148.158       Continuing         -

Gross/Weapon System Unit Cost (\$ in Thousands) **Description:** 

Mod-In-Service

Development Status/Major Development Milestones

Dovolopinoni	Status major Dovoropment immosterios		
Date	Title	Description	
May 2011	Final ARL M Conversion Delivered	Completed	

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012

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

2031A / BA 2 / BSA 10 AZ2001 - Multi Sensor ABN Recon (MIP) (Modification Title, Modification Number): ARL Mod-In-Service - 000

Models of Systems Affected: ARL-M	Type Modifica	ition: Ope	erational			R	elated RD	T&E PE	<b>S</b> :			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos								
Procurement												
System Interoperability <sup>(1)</sup>												
B Kits												
Recurring												
Datalink A-Kit	0	0.000	0	0.240	0	0.480	0	0.255	0	0.000	0	0.25
Datalink Hardware	0	0.000	0	0.500	0	1.000	0	0.515	0	0.000	0	0.5
Software	0	0.000	0	2.410	0	0.300	0	1.449	0	0.000	0	1.44
Program Mgt	0	0.000	0	0.400	0	0.270	0	0.400	0	0.000	0	0.40
Spares	0	0.000	0	0.100	0	0.100	0	0.225	0	0.000	0	0.22
Tech Refresh	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		3.650		2.150		2.844		0.000		2.84
Total, System Interoperability	0	0.000	0	3.650	0	2.150	0	2.844	0	0.000	0	2.84
Workstation Architecture (2)												
B Kits										,-		
Recurring								,		,		
SW PC Client Server	0	0.000	0	1.300	0	1.200	0	0.600	0	0.000	0	0.60
Initial Spares	0	0.000	0	1.500	0	0.000	0	0.000	0	0.000	0	0.00
Program Management	0	0.000	0	0.300	0	0.200	0	0.100	0	0.000	0	0.10
Sustainability Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		3.100		1.400		0.700		0.000		0.70
Total, Workstation Architecture	0	0.000	0	3.100	0	1.400	0	0.700	0	0.000	0	0.70
COMINT Upgrades (3)					,							
B Kits												
Recurring												
Calibration & Test	0	0.000	0	0.100	0	0.100	0	0.000	0	0.000	0	0.00
Program Mgt	0	0.000	0	0.300	0	0.300	0	0.000	0	0.000	0	0.00
Signal Processing SW	0	0.000	0	0.300	0	0.300	0	0.000	0	0.000	0	0.00
Frequency Extension Antenna	0	0.000	0	1.784	0	0.000	0	0.000	0	0.000	0	0.00

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** (*Modification Title, Modification Number*):

2031A / BA 2 / BSA 10

AZ2001 - Multi Sensor ABN Recon (MIP)

ARL Mod-In-Service - 000

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

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Subtotal Recurring		0.000		2.484		0.700		0.000		0.000		0.00
Total, COMINT Upgrades	0	0.000	0	2.484	0	0.700	0	0.000	0	0.000	0	0.00
Radar <sup>(4)</sup>												
B Kits												
Recurring												
SW Improvements	0	0.000	0	1.300	0	1.462	0	0.000	0	0.000	0	0.00
Program Mgt	0	0.000	0	0.200	0	0.200	0	0.000	0	0.000	0	0.00
Sustainability Improvements	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		1.500		1.662		0.000		0.000		0.00
Total, Radar	0	0.000	0	1.500	0	1.662	0	0.000	0	0.000	0	0.00
Element IV Payload Migration <sup>(5)</sup>												
A Kits												
Recurring												
Aircraft DHC-8,Cockpit, ASE	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
NonRecurring				'								'
NRE	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		0.00
B Kits												
Recurring												
LIDAR	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Wide Area Surveillance	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Digital Pan Camera/Mapping	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FOLPEN	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
High Spectral Imaging	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
COMINT Upgrade/ Refresh	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
RADAR (MTI/SAR/DMTI)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Workstations & Comms	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2001 - Multi Sensor ABN Recon (MIP) (Modification Title, Modification Number): ARL Mod-In-Service - 000 Models of Systems Affected: ARL-M Type Modification: Operational Related RDT&E PEs: **Prior Years** FY 2011 FY 2012 **FY 2013 Base** FY 2013 OCO FY 2013 Total **Total Cost Total Cost** Total Cost Total Cost Total Cost **Total Cost** Qty Qty Qty **Financial Plan** (Each) (\$ M) 0.000 0 0.000 0.000 0.000 0 0.000 0.000 **HD Sensors** 0 0 CDL/BLOS/SATCOM 0 0.000 0 0.000 0 0.000 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 Test 0.000 0.000 0.000 0.000 0.000 0 0.000 Program Mgt 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Training 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Data 0 0.000 0.000 0.000 0.000 0 0.000 0 0 0.000 **Initial Spares** 0.000 0.000 0.000 0.000 0.000 0.000 Subtotal Recurring 0.000 0.000 0.000 0.000 0.000 0.000 Total, Element IV Payload Migration ARI -C to ARI -M Conversion (6) B Kits Recurring Air Worthiness Release 0 0.000 0.100 0 0.300 0 0.000 0 0.000 0.000 0.000 4.000 0 0.000 0 0.000 0.000 0 0.000 Test & Fielding 0 **Program Management** 0.000 0.800 0 0.000 0.000 0.000 0.000 Subtotal Recurring 0.000 4.900 0.300 0.000 0.000 0.000 Total, ARL-C to ARL-M Conversion 0.000 4.900 0.300 0.000 0 0.000 0 0.000 0.000 15.634 6.212 3.544 0.000 3.544 Total. All Modifications 3.544 Procurement Cost (Procurement + Support) 0.000 15.634 6.212 3.544 0.000 Total Installation Cost 573.247 1.250 2.150 0.750 0.000 0.750 573.247 16.884 8.362 4.294 0.000 4.294 Total Cost (Procurement + Support + Installation) FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Total Cost Qty Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Financial Plan** (Each) (Each) (\$ M) **Procurement** System Interoperability (1) B Kits Recurring

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

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

2031A / BA 2 / BSA 10

AZ2001 - Multi Sensor ABN Recon (MIP)

(Modification Title, Modification Number):
ARL Mod-In-Service - 000

Models of Systems Affected: ADL M. Type Modification: Operational Polated DDTS E DEc.

Models of Systems Affected: ARL-M	Type Modific	ation: Op	erational			Re	lated RL	T&E PE	<b>S</b> :			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )								
Datalink A-Kit	C	0.240	0	0.000	0	0.000	0	0.000	0	0.000	0	1.215
Datalink Hardware	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.015
Software	C	0.200	0	0.100	0	0.000	0	0.000	0	0.000	0	4.459
Program Mgt	C	0.200	0	0.200	0	0.000	0	0.000	0	0.000	0	1.470
Spares	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.425
Tech Refresh	C	0.860	0	1.379	0	0.000	0	0.000	0	0.000	0	2.239
Subtotal Recurring		1.500		1.679		0.000		0.000		0.000		11.823
Total, System Interoperability	C	1.500	0	1.679	0	0.000	0	0.000	0	0.000	0	11.823
Workstation Architecture (2)												
B Kits												
Recurring												
SW PC Client Server	C	1.000	0	0.900	0	0.000	0	0.000	0	0.000	0	5.000
Initial Spares	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.500
Program Management	C	0.100	0	0.100	0	0.163	0	0.165	0	0.000	0	1.128
Sustainability Upgrades	C	0.000	0	0.000	0	1.472	0	1.487	0	0.000	0	2.959
Subtotal Recurring		1.100		1.000		1.635		1.652		0.000		10.587
Total, Workstation Architecture	C	1.100	0	1.000	0	1.635	0	1.652	0	0.000	0	10.587
COMINT Upgrades (3)												
B Kits												
Recurring												
Calibration & Test	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.200
Program Mgt	C	0.100	0	0.100	0	0.163	0	0.165	0	0.000	0	1.128
Signal Processing SW	C	0.907	0	0.976	0	1.471	0	1.485	0	0.000	0	5.439
Frequency Extension Antenna	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.784
Subtotal Recurring		1.007		1.076		1.634		1.650		0.000		8.551
Total, COMINT Upgrades	C	1.007	0	1.076	0	1.634	0	1.650	0	0.000	0	8.551
Radar <sup>(4)</sup>												
B Kits												

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2001 - Multi Sensor ABN Recon (MIP)

Modification Nomenclature (Modification Title, Modification Number):

ARL Mod-In-Service - 000

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

	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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 Cos
Recurring								l				
SW Improvements	0	1.080	0	1.000	0	0.000	0	0.000	0	0.000	0	4.84
Program Mgt	0	0.120	0	0.100	0	0.163	0	0.165	0	0.000	0	0.94
Sustainability Improvements	0	0.000	0	0.000	0	1.471	0	1.485	0	0.000	0	2.95
Subtotal Recurring		1.200		1.100		1.634		1.650		0.000		8.7
Total, Radar	0	1.200	0	1.100	0	1.634	0	1.650	0	0.000	0	8.74
Element IV Payload Migration <sup>(5)</sup>						1		1				
A Kits												
Recurring												
Aircraft DHC-8,Cockpit, ASE	0	0.000	0	40.895	0	23.502	0	17.065	0	0.000	0	81.4
Subtotal Recurring		0.000		40.895		23.502		17.065		0.000		81.4
NonRecurring								1				,
NRE	0	0.000	0	4.140	0	4.164	0	0.000	0	0.000	0	8.3
Subtotal NonRecurring		0.000		4.140		4.164		0.000		0.000		8.3
B Kits				'				1		1		-
Recurring												
LIDAR	0	0.000	0	14.219	0	1.722	0	1.777	0	0.000	0	17.7
Wide Area Surveillance	0	0.000	0	12.977	0	2.096	0	2.163	0	0.000	0	17.2
Digital Pan Camera/Mapping	0	0.000	0	0.987	0	4.099	0	1.268	0	0.000	0	6.3
FOLPEN	0	0.000	0	1.560	0	17.192	0	12.255	0	0.000	0	31.0
High Spectral Imaging	0	0.000	0	0.000	0	5.163	0	5.328	0	0.000	0	10.4
COMINT Upgrade/ Refresh	0	0.000	0	0.000	0	14.133	0	21.662	0	0.000	0	35.7
RADAR (MTI/SAR/DMTI)	0	0.000	0	0.000	0	9.666	0	30.400	0	0.000	0	40.0
Workstations & Comms	0	0.000	0	0.000	0	8.142	0	3.371	0	0.000	0	11.5
HD Sensors	0	0.000	0	7.880	0	7.750	0	7.973	0	0.000	0	23.6
CDL/BLOS/SATCOM	0	0.000	0	2.405	0	1.560	0	1.790	0	0.000	0	5.7
Test	0	0.000	0	3.779	0	11.068	0	8.840	0	0.000	0	23.6
Program Mgt	0	0.000	0	3.406	0	5.206	0	5.303	0	0.000	0	13.9
Training	0	0.000	0	0.000	0	0.000	0	1.518	0	0.000	0	1.5

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AZ2001 - Multi Sensor ABN Recon (MIP)

AZ2001 - Multi Sensor ABN Recon (MIP)

ARL Mod-In-Service - 000

Models of Systems Affected: ARL-M	Type Modifica	ation: Op	erational			Re	lated RI	OT&E PE	s:			
	FY	2014	FY :	2015	FY :	2016	FY :	2017	To Co	mplete	To	otal
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
Data	0	0.000	0	1.580	0	1.580	0	1.913	0	0.000	0	5.07
Initial Spares	0	0.000	0	15.000	0	17.784	0	17.363	0	0.000	0	50.14
Subtotal Recurring		0.000		63.793		107.161		122.924		0.000		293.87
Total, Element IV Payload Migration	0	0.000	0	108.828	0	134.827	0	139.989	0	0.000	0	383.64
ARL-C to ARL-M Conversion (6)												,
B Kits												
Recurring												
Air Worthiness Release	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.40
Test & Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.00
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.80
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		5.20
Total, ARL-C to ARL-M Conversion	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.20
Total, All Modifications		4.807		113.683		139.730		144.941		0.000		428.55
Procurement Cost (Procurement + Support)		4.807		113.683		139.730		144.941		0.000		428.55
Total Installation Cost		0.000		2.455		5.938		3.217		0.000		589.00
Total Cost (Procurement + Support + Installation)		4.807		116.138		145.668		148.158		0.000		1,017.55

#### Remarks:

Justification: FY13 Base procurement funding procures Beyond Line of Sight hardware and integration with existing systems.

Justification: FY13 Base procurement funding procures continued migration to Orion 3 hardware/software architecture, standardization and maintainability improvements and accreditation requirements across the fleet.

(3) Description: The Communications Intelligence (COMINT) upgrade modification adds a COMINT subsystem to M4, M5, M7, and M8. This upgrade also provides two spare COMINT subsystems. The COMINT system includes a complete acquisition and Direction Finding (DF) antenna manifold, Tactical Signals Intelligence (SIGINT) payload system, navigation interfaces, and Man Machine Interface (MMI).

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<sup>(1)</sup>Description: This modification provides for objective data link hardware/software for over the horizon remote capability effort includes engineering, airworthiness, and associated documentation to add generic satellite A and B kit capability into the ARL-M baseline. The solution includes multi-band capability including Ka, Ku, and X bands as required. Supports combatant commander requirements and introduces a universal capability for future DCGS connectivity.

<sup>(2)</sup> Description: The Workstation Architecture modification provides personal computer (PC) client server software and hardware upgrades to maintain the relevancy of workstation, software, and communication/data networks and to maintain accreditation standards. The software and hardware upgrades provide the standardization and supportability upgrades for the Airborne Reconnaissance Low (ARL) Mission Analyst's workstations, employment of wideband data links, and evolution of beyond line of sight tactical communications. Tactical radios will be adjusted to allow conformance and compatibility with all relevant combat radio protocols. These modifications will be applied across the fleet.

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AZ2001 - Multi Sensor ABN Recon (MIP)	Modification Nomenclature (Modification Title, Modification Number): ARL Mod-In-Service - 000
Models of Systems Affected: ARL-M	Type Modification: Operational	Related RDT&E PEs:

The system will also include a frequency extension and architectural modifications for federated acquisition boxes (to allow rapid threat response). The system will be configured for remote operations and multi-level security operation. FY13-FY15 continues to provide software module drops to support the exploitation of additional high priority target waveforms. Fielding schedules are dependent on aircraft availability.

Justification: There is no FY13 funding for this Mod.

Justification: There is no FY13 funding for this Mod.

Justification: There is no FY13 procurement funding request, procurement funding begins FY15.

Justification: There is no FY13 procurement funding request, this modification is completed.

Manufacturer Name: LM	IS/SNC			Manufacturer Location: Ha	agerstown MD		
					· ·		
Administrative Leadtime	(in Months): 1			Production Leadtime (in N	ionths): 3		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Nov 2010	Nov 2011	Nov 2012	Nov 2013	Nov 2014		
Delivery Dates	May 2011	Jun 2012	Jun 2013	Nov 2014	Nov 2015		
Manufacturor Informati	on: Workstation Architectu	iro	•	•			
Manufacturer informati	on. Workstation Architecti	ui e					
Manufacturer Name: LM		ure		Manufacturer Location: Ha	agerstown, MD		
Manufacturer Name: LM	IS/SNC	ure		Manufacturer Location: Ha	·		
	IS/SNC	FY 2012	FY 2013		·	FY 2016	FY 2017
Manufacturer Name: LM Administrative Leadtime	IS/SNC (in Months): 1		FY 2013 Dec 2012	Production Leadtime (in N	fonths): 3	<b>FY 2016</b> Dec 2015	<b>FY 2017</b> Dec 2017

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<sup>(4)</sup> Description: The Radar modification supports completion of the Phoenix Eye Radar Integration effort. It includes software standardization and hardware reliability improvements for the Phoenix Eye fleet. Phoenix Eye capabilities include Ground Moving Target Indicators (GMTI), three-dimensional Synthetic Aperture Radar (SAR), SAR/Imagery fusion, complex data exploitation, etc. The ARL-M Phoenix Eye Radar is fielded on Airborne Reconnaissance Low (ARL) systems organic to the 3D MIBN and supports USFK Intelligence, Surveillance and Reconnaissance (ISR), I&W, and Counter Special Operations Forces (CSOF) missions.

<sup>(5)</sup> Description: This modification provides payload migration, niche sensor procurement, next generation configuration flexibility, advanced dissemination architecture, onboard/remote operational options, as well as system and platform lifecycle extension. Included is the purchase of four (4) used DHC 8-300 aircraft and the option to leverage four (4) existing QRC DHC 8-300 aircraft. All eight (8) aircraft will be equipped with modern avionics and Aircraft Survivability Equipment (ASE). Mission workstations and radios, applicable sensor technology and upgrades and data/communications architecture will be integrated onboard each aircraft to meet varying mission requirements. Each system will be based on a modular and segmented hard point/rail mounting strategy which minimizes requirements for intrusive structural modifications to the airframe to support rapid mission reconfiguration.

<sup>(6)</sup> Description: The Airborne Reconnaissance Low Communications Intelligence (ARL C) to Multifunctional (M) conversion consists of a Tri-port (three sensor ports) modification to allow for the installation of Electro Optical/Infrared (EO/IR), digital camera, or RADAR payloads (the RADAR payload will be purchased under the RADAR modification); aircraft navigation modification; Air Survivability Equipment (ASE) modification; aircraft power modification; and Communications Intelligence (COMINT) antenna modification. The current COMINT infrastructure will be replaced (COMINT payload will be purchased under COMINT upgrade modification). This modification will also provide an imagery capability (EO/IR and digital pan camera); upgrade the communications suite; and modify the mission analysts' workstations.

<u> </u>	dual Modification:		D 4 1 1	I4 N						te: Febru		la4u-	
2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity:			omenclat Sensor ABI		MIP)		(Mo	odification	<b>n Nomenc</b> l n <i>Title, Mod</i> -Service - 0	lification I	Number)
Models of Systems	Affected: ARL-M	Ту	pe Modific	ation: Op	erational			Relate	ed RDT&E	PEs:			
Manufacturer Information	on: COMINT Upgrades	'											
Manufacturer Name: LMI	S/BAE				Manuf	acturer Loca	ition: Nashua,	NH					
Administrative Leadtime	(in Months): 1				Produc	ction Leadtir	ne (in Months)	): 4					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	j	FY 201	16	FY 20	)17
Contract Dates	Jun 2011	Nov 2011				Nov 2013		Nov 2014	4	Nov 20	16	Nov 2	017
Delivery Dates	Mar 2012	Sep 2012				Nov 2014		Nov 201	5	Nov 20	17	Nov 2	018
Manufacturer Information	on: Radar	•	•				•		•				
Manufacturer Name: LM	Goodyear				Manuf	acturer Loca	tion: Phoenix	, AZ					
Administrative Leadtime	(in Months): 1				Produc	ction Leadtir	ne (in Months)	): 4					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 201	16	FY 20	)17
Contract Dates	Nov 2010	Dec 2011				Nov 2013		Nov 2014	4	Nov 20	15	Nov 2	016
Delivery Dates	Nov 2011	Nov 2012				Nov 2014		Nov 201	5	Nov 20	16	Nov 2	017
Manufacturer Information	on: Element IV Payload M	igration	•				•		•		•		
Manufacturer Name: Unk	nown				Manuf	acturer Loca	tion: Unknow	n					
Administrative Leadtime	(in Months): 9				Produc	ction Leadtir	ne (in Months)	): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	;	FY 201	16	FY 20	)17
Contract Dates								Nov 2014	4				
Delivery Dates								Sep 2010	6				
Manufacturer Information	n: ARL-C to ARL-M Conv	version			'				-		<u> </u>		
Manufacturer Name: LMI	S/SNC				Manuf	acturer Loca	tion: Hagersto	own, MD					
Administrative Leadtime	(in Months): 1				Produc	ction Leadtir	ne (in Months)	): 3					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	;	FY 201	16	FY 20	)17
Contract Dates	Dec 2011												
Delivery Dates	Jun 2011												
Installation: System Inte	roperability	Me	thod of Imple	mentation:	Contractor			Installa	tion Name:				
		Prior	Years	FY 2	011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost		Qty (Each)	Total Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost
All Prior Years		0		0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2011		0	573.247	1	0.750	0	0.000	0	0.000	0	0.000	0	0.00

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2001 - Multi Sensor ABN Recon (MIP) (Modification Title, Modification Number): ARL Mod-In-Service - 000 Models of Systems Affected: ARL-M Type Modification: Operational Related RDT&E PEs: Installation: System Interoperability Method of Implementation: Contractor Installation Name: **Prior Years** FY 2012 **FY 2013 OCO** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) 0.000 FY 2012 0.000 1.250 0.000 0.000 0.000 0 FY 2013 0 0.000 0.000 0 0.000 0.750 0 0.000 1 0.750 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 Ω 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 To Complete 0 0.000 0.000 0.000 0 0.000 0 0.000 0 573.247 0.750 2 1.250 0.750 n 0.000 0.750 Total FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Total Cost Total Cost **Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Qty **Total Cost** Installation Cost (Each) (\$ M) All Prior Years 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2011 0 0.000 0.000 0 0.000 0.000 0 0.000 573.997 0 0.000 0.000 0 0.000 0 0.000 0 0.000 2 1.250 FY 2012 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 1 0.750 FY 2014 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0 0 0 FY 2016 0.000 0.000 0 0.000 0.000 0.000 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 Total 0.000 0.000 0.000 0.000 0.000 575.997 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 2 4 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 4 2 3 4 TC **APY** 1 3 4 4 4 4 1 Tot In 0 1 0 0 0 1 0 1 0 0 Out 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature
(Modification Title, Modification Number):

2031A / BA 2 / BSA 10

AZ2001 - Multi Sensor ABN Recon (MIP)

ARL Mod-In-Service - 000

Models of Systems Affected: ARL-M

Type Modification: Operational

Related RDT&E PEs:

Installation: Workstation Architecture	Met	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

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

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AZ2001 - Multi Sensor ABN Recon (MIP)

(Modification Title, Modification Number):

ARL Mod-In-Service - 000

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

Installation: Workstation Architecture Method of Implementation: Contractor Installation Name:

#### Installation Schedule

				FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	015			FY 2	016			FY 2	2017			
		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
lr	ı	6	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	6
С	ut	6	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	6

Installation: COMINT Upgrades	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	1	0.500	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	1	0.900	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	1	0.500	1	0.900	0	0.000	0	0.000	0	0.000

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.500
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.900
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
Page 14 of 20

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2001 - Multi Sensor ABN Recon (MIP) (Modification Title, Modification Number): ARL Mod-In-Service - 000 Models of Systems Affected: ARL-M Type Modification: Operational Related RDT&E PEs: Method of Implementation: Contractor Installation: COMINT Upgrades Installation Name: FY 2014 FY 2016 FY 2015 FY 2017 To Complete Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Total Cost Qty Installation Cost (Each) (\$ M) 0.000 FY 2017 0.000 0.000 0.000 0.000 0.000 0 0 To Complete 0 0.000 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 2 1.400 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016** FY 2017 **APY** 2 2 1 2 4 2 3 2 2 4 2 TC 1 3 4 1 3 4 3 1 4 1 3 4 1 3 1 3 4 Tot 0 0 0 0 1 0 In 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Out 0 0 0 0 0 0 0 Method of Implementation: Contractor Installation: Radar **Installation Name: Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Qty Qty **Total Cost Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Total Cost Installation Cost (Each) (\$ M) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years FY 2011 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 FY 2014 0 0.000 0.000 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 2015 0 0 0.000 0 0 FY 2016 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2017 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 Total FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qty (Each) **Total Cost Installation Cost** (Each) (\$ M) (\$ M) 0.000 0.000 0.000 0.000 0 0.000 0.000 All Prior Years 0 0 0 FY 2011 0 0.000 0.000 0.000 0.000 0.000 0.000

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED

P-1 Line #21

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AZ2001 - Multi Sensor ABN Recon (MIP)

ARL Mod-In-Service - 000

Date: February 2012

Modification Nomenclature
(Modification Title, Modification Number):
ARL Mod-In-Service - 000

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

Installation: Radar	M	ethod of Impl	ementation	Contractor			Installa	tion Name:				
	FY	′ 2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	mplete	Tc	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
FY 2012		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			
	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	3	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	0	3
Out	3	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	0	3

Installation: Element IV Payload Migration	Me	thod of Impl	ementation	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AZ2001 - Multi Sensor ABN Recon (MIP)

Modification Nomenclature
(Modification Title, Modification Number):
ARL Mod-In-Service - 000

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

Installation: Element IV Payload Migration	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	2	2.455	0	0.000	0	0.000	0	0.000	2	2.455
FY 2016	0	0.000	0	0.000	4	5.938	0	0.000	0	0.000	4	5.938
FY 2017	0	0.000	0	0.000	0	0.000	2	3.217	0	0.000	2	3.217
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	2	2.455	4	5.938	2	3.217	0	0.000	8	11.610

### Installation Schedule

			F	Y 2	011			FY:	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	APY	1	2	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	-	C	)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1	1	0	0	0	2	0	8
Out	-	C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	3	8

Installation: ARL-C to ARL-M Conversion	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
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														OIT	OLA.	JJ:	ILD														
Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: PE	3 201	3 Arr	ny														)ate:	: Feb	ruary	2012				
	ropria 1A / B				Activi	ity / B	udge	t Sub	Act	ivity:				<b>Item I</b> Multi				con (	MIP)				(	Mod	ificati	on Ti	lomer itle, M ervice	odific	ation	Num	ber)
Мос	dels of	Sys	tems	Affe	cted:	ARL-	М			Т	ype l	Modif	icatio	on: O	perati	onal					Rel	ated	RDT&	E PE	Es:						
Insta	ıllation:	ARI -(	C to AF	N -M C	onvers	sion				м	lethod	l of Imp	lemei	ntation	· Contr	actor					Inst	allatic	n Name								
											or Yea				2011			FY 2	012			2013 I		1	FY 2	013 O	СО	$\top$	FY 20	13 Tota	al
Insta	ıllation	Cost								Qty (Each)		tal Cost		<b>Qty</b> Each)		Cost	Qı (Ea		Total Co		Qty (Each)		Total Cost		Qty (Each)		otal Cost		Qty Each)	Tota	al Cost
To C	omplete									, ,	0	0.000	+	0		0.000		0	,,,	0.000	( ,	0	0.00			0	0.00	<del>-</del>	0	+ ·	0.00
Total											0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
										F۱	/ 2014		1	FY	2015			FY 2	016			Y 201	17		То С	omple	ete	$\overline{1}$	To	tal	
Insta	ıllation	Cost								Qty (Each)		tal Cost		Qty Each)		Cost	Qı (Ea		Total Co		Qty (Each)		Total Cost		Qty (Each)		otal Cost		Qty Each)		al Cost
All P	rior Yea	'S								, ,	0	0.000	+	0		0.000		0		0.000	( )	0	0.00		· /	0	0.00	<del>- `</del>	0	<del></del>	0.00
FY 2	011										0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
FY 2	012										0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
FY 2	013										0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
FY 2	014										0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
FY 2	015										0	0.000		0		0.000		0	(	0.000		0	0.00	0		0	0.00	0	0		0.00
FY 2											0	0.000		0		0.000		0		0.000		0	0.00			0	0.00		0		0.00
FY 2											0	0.000		0		0.000		0		0.000		0	0.00			0	0.00		0		0.00
_	omplete										0	0.000		0		0.000		0		0.000		0	0.00			0	0.00		0		0.00
Total											0	0.000	)	0		0.000		0	(	0.000		0	0.00	0		0	0.00	٥	0		0.00
Insta	Illation	Sched			_	I				I				1				ı							1						
	APY	1	FY 2	2011	4	1	FY 2	3	4	1	2	2013	4	1	FY 2	2014 3	4	1	FY 2	2015 3	4	1	FY 20	16 3	4	1	FY 2	3	4	тс	Tot
In	2	0	0	0	-		0	0	0	-	0	-	0	_		0	0			0		0		0	0	0	_	0	0	0	+
Out	1	0			_			0		_	0	_	0	_		0			_	0		0		0	0	0		0		0	+
Out	'			<u>'</u>	0					0		0	U	0				0	0		0		0	- 0	٥		0				

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AZ2001 - Multi Sensor ABN Recon (MIP)

Various

		Al	I Prior Years	3		FY 2011			FY 2012			FY 2013 Base	9		FY 2013 OCC	)		FY 2013 Tota	
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	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 (\$ M)
(Uncategorized)																			
AZ2052 - ARMS MARSS MODS (MIP)		-	-	-	-	-	41.700	-	-	39.500	-	-	-	-	-	-	-	-	-
AZ2054 - CONSTANT HAWK (MIP)		-	-	1	-	1	12.400	-	-	15.000	-	-	-	-	-	-	-	-	-
AZ2056 - ABN ISR MODS (MIP)		-	-	-	-	=	32.100	-	-	-	-	-	-	-	-	-	-	-	-
Uncategorized Subtotal				0.000			86.200			54.500			0.000			0.000			0.000
Total				0.000			86.200			54.500			0.000			0.000			0.000

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Aggregated Item Name:2031A / BA 2 / BSA 10AZ2001 - Multi Sensor ABN Recon (MIP)Various

Items († indicates the presence of a P-5A) (Uncategorized)		Jnit Cost	FY 2014	Total		FY 2015			FY 2016			FY 2017			To Complete			Total	
(† indicates the presence of a P-5A)		Jnit Cost		Total										1	io complete				
(Uncategorized)	- 1	(\$ K )	<b>Qty</b> (Each)	Cost (\$ M)	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 (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)
	,																		
AZ2052 - ARMS MARSS MODS (MIP)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AZ2054 - CONSTANT HAWK (MIP)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AZ2056 - ABN ISR MODS (MIP)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uncategorized Subtotal				0.000			0.000			0.000			0.000			0.000			0.000
Total				0.000			0.000			0.000			0.000			0.000			0.000

Remarks:

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA6605 - AH-64 MODS

Modification Of Aircraft

:D.O. .

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,977.168	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,555.936
Less PY Advance Procurement (\$ in Millions)	180.439	-	-	-	-	-	-	-	-	-	0.000	180.439
Net Procurement (P1) (\$ in Millions)	4,796.729	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,375.497
Plus CY Advance Procurement (\$ in Millions)	180.439	-	-	-	-	-	-	-	-	-	0.000	180.439
Total Obligation Authority (\$ in Millions)	4,977.168	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,555.936
(The fo	ollowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented e	sewhere.)			
Initial Sparce (\$ in Millions)	_	_	_	_	_	_	_	_	_	_	_	_

(The folio	wing Resource	Sullillary lows	are ioi illioillia	lional purposes	only. The come	sponding budg	iei requesis are	documented et	Sewileie.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>B</b> 1 41												

### **Description:**

The AH-64 MODS program provides for modernization of the fielded AH-64D Longbow Apache (LBA) fleet. Modifications accomplished by this funding line are not included in the Block III Program. The 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 ay 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 independant 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 lesons learned, reliability improvements, and solving obsolescense 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 Obsolencence upgrades, Software upgrades, Condition Based Maintenance (CBM), Trainer upgrades, the Lightweight Missile launcher (LWML) and Computer/Processing and Data Display and Control upgrades. 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.

Item Sche	dule		Р	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	ase	FY	2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (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
AH-64 Modifications - 0000	P3A		-	-	4,977.168	-	-	1,045.740	-	-	331.230	-	-	178.805	-	-	-	-	-	178.805
Total Gross/Weapon System Cost					4,977.168			1,045.740			331.230			178.805			-			178.805

LI AA6605 - AH-64 MODS

Army

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P-1 Line #22

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

Modification Of Aircraft

AA6605 - AH-64 MODS

ID Code (A=Service Ready	, B=Not Service Read	dy):				Program	Element	s for Cod	e B Items	s:			Othe	er Related	d Progran	n Elemei	nts:			
				FY 2014			FY 2015			FY 2016			FY 2017		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
AH-64 Modifications - 0000	P3A		-	-	167.356	-	-	86.691	-	-	113.448	-	-	74.922	-	-	580.576	-	-	7,555.936
Total Gross/Weapon System Cost					167.356			86.691			113.448			74.922			580.576			7,555.936

\*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.

#### Justification:

FY13 Base funding in the amount of \$178.805 Million supports modification efforts for the Airframe, Armament, Mission Command, Senros, Survivability, Support Elements, and Training Systems.

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P-1 Line #22

Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	<b>'</b> :	P-1 Line Item Nomenclature: AA6605 - AH-64 MODS		Modification Nomenclature (Modification Title, Modification Number): AH-64 Modifications - 0000
Models of Systems Affected: Longbow Apache	, J.	Modification: Operational & Reliability	Related RDT	&E PEs:

		1										
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,977.168	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,555.936
Less PY Advance Procurement (\$ in Millions)	180.439	-	-	-	-	-	-	-	-	-	0.000	180.439
Net Procurement (P1) (\$ in Millions)	4,796.729	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,375.497
Plus CY Advance Procurement (\$ in Millions)	180.439	-	-	-	-	-	-	-	-	-	0.000	180.439
Total Obligation Authority (\$ in Millions)	4,977.168	1,045.740	331.230	178.805	-	178.805	167.356	86.691	113.448	74.922	580.576	7,555.936
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **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 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. The upgrade provides improved agility for rapid deployment and reduces operational costs by employing streamlined logistics, including a 30-minute mean time repair objective.

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 resolution of obsolescence issues to the LBA Sensor suite, which includes the MTADS/PNVS, the Modernized Day Sensor Assembly (MDSA), and the Modernized Radio 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 the Modernized Laser Rangefinder/Designator (M-LFRD) which provides enhanced laser ranging, improved target designation, and target tracking capability enabled by holding a stabilized laser beam on a distant stationary or moving point target for highly precise handoff to precision

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		01102/10011122		_
Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA6605 - AH-64 MODS		Modification Nomenclature (Modification Title, Modification Number): AH-64 Modifications - 0000
Models of Systems Affected: Longbow Apache		Modification: Operational & Reliability ovements and Resolve Obsolescence Issues	Related RDT	T&E PEs:
guided weapons. M-LFRD replaces the obsolete Laser Transceiver MRFI Processor, Receiver, and Antenna solve obsolescence issues performance for fusing visible/near infrared imagery with forward loc between FLIR, fused and El2. Funding will satisfy emerging require Support Elements include the modification and production of those is system while not directly engaged in the performance of its mission Corpus Christi Army Depot (CCAD) and Tobyhanna Army Depot (TOrganic Support (PPOS) provides Depot Maintenance Plant Equipm depot. PPOS improves Repair Turn Around Time and retain depot in Training Systems include deliverable training services, devices, accomaximum efficiency. Examples include Operator / Maintainer Training and collective training. Efforts include the production and upgrade of	Impror Unit, who so on the	overments and Resolve Obsolescence Issues hich mitigates ongoing obsolescence risks, improves reliability at Single Board Computer and the Parameter Measurement Unit of rared (FLIR) imagery, enhanced capability for image fusion and so or modernizing and revolving obsolescence on all Apache Senso hich are not part of the aircraft system but are required to mainta not be in the inventory for support of other weapon systems. Por a selected Depot Level Repairables (DLR) as part of the Original ecial Tools and Test Equipment, labor training and associated te ance capabilities.  s, aids, equipment, and parts used to facilitate instruction through raft/classroom), obsolescence and training concurrency to training	nd maintainability nip. The Enhance stand alone capa ors. in, service, or cal set Production Ore Equipment Manu- chnical data for form	r, and reduces operations and support costs. The ed Imagining Intensifier (EI2) Camera will provide bility for pilotage which allows the pilot to switch librate the aircraft systems or portions of the aircraft ganic support establishes Depot Pilot Programs at ifacturer (OEM) to Depot Transition. Post Production uture repairs once the DLR has transitioned to the
<u> </u>				

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P-1 Line #22

Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000

Related RDT&E PEs: Models of Systems Affected: Longbow Apache **Type Modification:** Operational & Reliability

	Improvements											
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 20	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M)
Procurement												
Apache Sensors Life Extension & Upgrade (1)												
A Kits												
Recurring												
Kit Quantity	633	106.000	36	8.005	45	10.592	0	0.000	0	0.000	0	0.00
Equipment (GFE)	0	44.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Visible Near Infrared (V/NIR)	0	0.000	0	28.600	0	0.000	0	0.000	0	0.000	0	0.00
Other	0	5.500	0	0.800	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		156.400		37.405		10.592		0.000		0.000		0.00
Total, Apache Sensors Life Extension & Upgrade	633	156.400	36	37.405	45	10.592	0	0.000	0	0.000	0	0.00
AH-64A MISC Mods \$5M or less (no P3a set)										'		
A Kits												
Recurring												
Interim Contractor Support	0	736.200	0	6.359	0	9.031	0	0.000	0	0.000	0	0.00
Subtotal Recurring		736.200		6.359		9.031		0.000		0.000		0.00
Total, AH-64A MISC Mods \$5M or less (no P3a set)	0	736.200	0	6.359	0	9.031	0	0.000	0	0.000	0	0.00
Apache Transformation (no P3a set) (2)												
A Kits												
Recurring												
Sets, Kits & Outfits (SKO)	0	20.000	0	0.000	0	3.990	0	0.000	0	0.000	0	0.00
Equipment, NGF	0	29.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
ASL/PLL	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		51.100		0.000		3.990		0.000		0.000		0.00
Total, Apache Transformation (no P3a set)	0	51.100	0	0.000	0	3.990	0	0.000	0	0.000	0	0.00
Modernized TADS/PNVS (M-TADS) (3)												
A Kits												
Recurring												_

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**Exhibit P-3A, Individual Modification:** PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA6605 - AH-64 MODS

Modification Nomenclature

(Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs:

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M)								
Equipment	530	785.700	12	25.100	0	50.830	0	0.000	0	0.000	0	0.00
Equipment (OCO)	0	0.000	23	49.070	0	0.000	0	0.000	0	0.000	0	0.0
TEDAC/IHDSS	0	67.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Other Support	0	42.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		895.100		74.170		50.830		0.000		0.000		0.0
Total, Modernized TADS/PNVS (M-TADS)	530	895.100	35	74.170	0	50.830	0	0.000	0	0.000	0	0.0
Video from UAS Interoperability Teaming (VUIT-2) (4)												
A Kits												
Recurring												
VUIT-2 FY10 OCO	48	91.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
VUIT-2 FY11 OCO	0	0.000	144	170.600	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		91.900		170.600		0.000		0.000		0.000		0.0
Total, Video from UAS Interoperability Teaming (VUIT-2)	48	91.900	144	170.600	0	0.000	0	0.000	0	0.000	0	0.0
Apache Product Improvements (5)												
A Kits												
Recurring												
CBM Hardware/VMEP	368	13.100	0	0.000	60	4.500	0	0.000	0	0.000	0	0.0
Other Recap	0	37.600	0	2.200	0	8.300	0	0.000	0	0.000	0	0.0
NG Recap Support	0	28.500	0	30.610	0	20.190	0	0.000	0	0.000	0	0.0
CBM Services	0	41.600	0	3.800	0	4.200	0	0.000	0	0.000	0	0.0
Composite Main Rotor Blade ship sets	0	0.000	0	0.000	10	17.100	0	0.000	0	0.000	0	0.0
Other	0	563.268	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		684.068		36.610		54.290		0.000		0.000		0.0
Total, Apache Product Improvements	368	684.068	0	36.610	70	54.290	0	0.000	0	0.000	0	0.0
Lightweight Missile Launcher (LWML) (6)												
A Kits												

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Related RDT&E PEs: Models of Systems Affected: Longbow Apache **Type Modification:** Operational & Reliability Improvements and Resolve Obsolescence Issues

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M )						
LWML Procurement	0	0.000	362	23.464	160	10.600	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		23.464		10.600		0.000		0.000		0.00
Total, Lightweight Missile Launcher (LWML)	0	0.000	362	23.464	160	10.600	0	0.000	0	0.000	0	0.00
Apache Upgrades and Remanufacture (7)												
A Kits												
Recurring												
Blk II Reman Aircraft	116	1,276.400	1	16.900	0	0.000	0	0.000	0	0.000	0	0.00
NG Aircraft Procurement	60	709.100	12	143.321	0	13.430	0	0.000	0	0.000	0	0.00
NG Aircraft Procurement (OCO)	0	0.000	23	284.530	0	0.000	0	0.000	0	0.000	0	0.00
System / Software Upgrade	0	0.000	0	0.000	0	23.323	0	0.000	0	0.000	0	0.00
Obsolescence	0	0.000	0	0.000	0	18.257	0	0.000	0	0.000	0	0.00
NG MEP	0	71.900	0	44.860	0	5.920	0	0.000	0	0.000	0	0.00
Other Support	0	147.300	0	23.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		2,204.700		512.611		60.930		0.000		0.000		0.00
Total, Apache Upgrades and Remanufacture	176	2,204.700	36	512.611	0	60.930	0	0.000	0	0.000	0	0.00
Modernized Day Side Assembly (M-DSA), Phase1 <sup>(8)</sup>												
A Kits												
Recurring												
Equipment	0	0.000	11	18.487	147	102.347	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		18.487		102.347		0.000		0.000		0.00
Total, Modernized Day Side Assembly (M-DSA), Phase1	0	0.000	11	18.487	147	102.347	0	0.000	0	0.000	0	0.00
Fire Control Radar (FCR) <sup>(9)</sup>												
A Kits												
Recurring												
Installation Kits	24	91.500	3	14.120	0	28.620	0	0.000	0	0.000	0	0.00
Installation Kits (OCO)	0	0.000	9	44.880	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		91.500		59.000		28.620		0.000		0.000		0.00

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Type Modification: Operational & Reliability Related RDT&E PEs: Models of Systems Affected: Longbow Apache

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost
Total, Fire Control Radar (FCR)	24	91.500	12	59.000	0	28.620	0	0.000	0	0.000	0	0.00
Apache Block III <sup>(10)</sup>												
A Kits												
Recurring												
Long Lead Items	0	11.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
A to Block III (NRE)	0	0.000	0	29.370	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		11.100		29.370		0.000		0.000		0.000		0.00
Total, Apache Block III	0	11.100	0	29.370	0	0.000	0	0.000	0	0.000	0	0.00
Apache Training Aids, Devices, Simulators & Simul (11)												
A Kits												
Recurring												
LCT (NG/USAACE/WAATS)	2	31.600	3	53.260	0	0.000	0	0.000	0	0.000	0	0.00
System TADSS	0	0.000	50	24.404	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		31.600		77.664		0.000		0.000		0.000		0.00
Total, Apache Training Aids, Devices, Simulators & Simul	2	31.600	53	77.664	0	0.000	0	0.000	0	0.000	0	0.00
Airframe <sup>(12)</sup>												
A Kits												
Recurring												
Structural Subsystems	0	0.000	0	0.000	0	0.000	0	5.875	0	0.000	0	5.87
Health Monitoring System	0	0.000	0	0.000	0	0.000	0	3.500	0	0.000	0	3.50
Recap Support / Kits	0	0.000	0	0.000	0	0.000	0	7.964	0	0.000	0	7.96
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		17.339		0.000		17.33
B Kits		,						,				
NonRecurring												
Propulsion-Drive-Rotor Systems	0	0.000	0	0.000	0	0.000	18	11.981	0	0.000	18	11.98
Subtotal NonRecurring		0.000		0.000		0.000		11.981		0.000		11.98

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache **Type Modification:** Operational & Reliability Related RDT&E PEs:

Improvements and Resolve Obsolescence Issues

	Prior	Voare	FY 2	2011	FY 2	012	FY 201	3 Basa	FY 201	3.000	FY 201	3 Total
				Total Cost		Total Cost						Total Cost
Financial Plan	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	(\$ M)	<b>Qty</b> (Each)	(\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	(\$ M )
Total, Airframe	0	0.000	0	0.000	0	0.000	18	29.320	0	0.000	18	29.32
Armament (13)												
A Kits												
Recurring												
PIU Obsolescence	0	0.000	0	0.000	0	0.000	0	6.000	0	0.000	0	6.00
Subtotal Recurring		0.000		0.000		0.000		6.000		0.000		6.00
B Kits												
NonRecurring												
Lightweight Missile Launcher	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Armament	0	0.000	0	0.000	0	0.000	0	6.000	0	0.000	0	6.00
Mission Command (14)												
A Kits												
Recurring												
Processors	0	0.000	0	0.000	0	0.000	0	12.000	0	0.000	0	12.00
Displays	0	0.000	0	0.000	0	0.000	0	5.000	0	0.000	0	5.00
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		17.000		0.000		17.00
Total, Mission Command	0	0.000	0	0.000	0	0.000	0	17.000	0	0.000	0	17.00
Sensors <sup>(15)</sup>												
A Kits												
Recurring												
Fire Control Radar	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
MTADS/PNVS	0	0.000	0	0.000	0	0.000	0	11.468	0	0.000	0	11.46
RFI	0	0.000	0	0.000	0	0.000	0	4.370	0	0.000	0	4.37
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Type Modification: Operational & Reliability Models of Systems Affected: Longbow Apache Related RDT&E PEs:

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Subtotal Recurring		0.000		0.000		0.000		15.838		0.000		15.83
B Kits												
NonRecurring												
MDSA Phase 1	0	0.000	0	0.000	0	0.000	138	81.523	0	0.000	138	81.52
El2	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		0.000		0.000		0.000		81.523		0.000		81.52
Total, Sensors	0	0.000	0	0.000	0	0.000	138	97.361	0	0.000	138	97.36
Support Elements <sup>(16)</sup>												
A Kits												
Recurring												
Post Production Organic Support	0	0.000	0	0.000	0	0.000	0	8.438	0	0.000	0	8.43
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		8.438		0.000		8.43
Total, Support Elements	0	0.000	0	0.000	0	0.000	0	8.438	0	0.000	0	8.43
Training Systems <sup>(17)</sup>												
A Kits												
Recurring												
Operator Devices	0	0.000	0	0.000	0	0.000	0	16.980	0	0.000	0	16.98
Maintainer Devices	0	0.000	0	0.000	0	0.000	0	3.706	0	0.000	0	3.70
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		20.686		0.000		20.68
Total, Training Systems	0	0.000	0	0.000	0	0.000	0	20.686	0	0.000	0	20.68
Total, All Modifications		4,953.668		1,045.740		331.230		178.805		0.000		178.80
Procurement Cost (Procurement + Support)		4,953.668		1,045.740		331.230		178.805		0.000		178.80
Total Installation Cost		23.500		0.000		0.000		0.000		0.000		0.00
Total Cost (Procurement + Support + Installation)		4,977.168		1,045.740		331.230		178.805		0.000		178.80

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS

(*Modification Title, Modification Number*): AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs:

Improvements and Resolve Obsolescence Issues

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Procurement												
Apache Sensors Life Extension & Upgrade (1)												
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	714	124.59
Equipment (GFE)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	44.90
Visible Near Infrared (V/NIR)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	28.60
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.30
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		204.39
Total, Apache Sensors Life Extension & Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	714	204.39
AH-64A MISC Mods \$5M or less (no P3a set)												
A Kits												
Recurring												
Interim Contractor Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	751.59
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		751.59
Total, AH-64A MISC Mods \$5M or less (no P3a set)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	751.59
Apache Transformation (no P3a set) (2)												
A Kits												
Recurring												
Sets, Kits & Outfits (SKO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.99
Equipment, NGF	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	29.10
ASL/PLL	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		55.09
Total, Apache Transformation (no P3a set)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	55.09
Modernized TADS/PNVS (M-TADS) (3)		,								,		
A Kits												
Recurring						-						

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs:

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	Tot	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos								
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	542	861.63
Equipment (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	49.0
TEDAC/IHDSS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	67.20
Other Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	42.20
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		1,020.1
Total, Modernized TADS/PNVS (M-TADS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	565	1,020.1
Video from UAS Interoperability Teaming (VUIT-2) (4)												
A Kits												
Recurring												
VUIT-2 FY10 OCO	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	48	91.9
VUIT-2 FY11 OCO	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	144	170.6
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		262.5
Total, Video from UAS Interoperability Teaming (VUIT-2)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	192	262.5
Apache Product Improvements (5)												
A Kits												
Recurring												
CBM Hardware/VMEP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	428	17.6
Other Recap	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	48.1
NG Recap Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	79.3
CBM Services	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	49.6
Composite Main Rotor Blade ship sets	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	17.1
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	563.2
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		774.9
Total, Apache Product Improvements	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	438	774.9
Lightweight Missile Launcher (LWML) <sup>(6)</sup>		·		·								
A Kits												
Recurring												

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

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2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs:

Improvements and Resolve Obsolescence Issues

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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 )
LWML Procurement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	34.06
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		34.06
Total, Lightweight Missile Launcher (LWML)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	34.06
Apache Upgrades and Remanufacture (7)												
A Kits												
Recurring												
Blk II Reman Aircraft	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	117	1,293.30
NG Aircraft Procurement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	72	865.85
NG Aircraft Procurement (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	284.53
System / Software Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.32
Obsolescence	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	18.25
NG MEP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	122.68
Other Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	170.30
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		2,778.24
Total, Apache Upgrades and Remanufacture	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	212	2,778.24
Modernized Day Side Assembly (M-DSA), Phase1 (8)												
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	158	120.83
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		120.83
Total, Modernized Day Side Assembly (M-DSA), Phase1	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	158	120.83
Fire Control Radar (FCR) (9)												
A Kits												
Recurring												
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	27	134.24
Installation Kits (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	9	44.88
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		179.12

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2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000

Type Modification: Operational & Reliability Models of Systems Affected: Longbow Apache Related RDT&E PEs:

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	То	tal
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 Cos
Total, Fire Control Radar (FCR)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	36	179.12
Apache Block III <sup>(10)</sup>												
A Kits												
Recurring												,
Long Lead Items	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	11.10
A to Block III (NRE)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	29.37
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		40.47
Total, Apache Block III	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	40.47
Apache Training Aids, Devices, Simulators & Simul (11)												
A Kits												
Recurring												
LCT (NG/USAACE/WAATS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	84.86
System TADSS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	50	24.40
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		109.26
Total, Apache Training Aids, Devices, Simulators & Simul	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	55	109.26
Airframe (12)												
A Kits												,
Recurring												,
Structural Subsystems	0	12.274	0	10.211	0	7.872	0	9.207	0	0.000	0	45.43
Health Monitoring System	0	11.200	0	7.141	0	5.670	0	6.125	0	0.000	0	33.63
Recap Support / Kits	0	4.309	0	4.381	0	4.456	0	4.532	0	0.000	0	25.64
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	72.648	0	72.64
Subtotal Recurring		27.783		21.733		17.998		19.864		72.648		177.36
B Kits								· · · · · · · · · · · · · · · · · · ·				
NonRecurring												
Propulsion-Drive-Rotor Systems	25	20.774	0	0.000	0	0.000	0	0.000	0	0.000	43	32.75
Subtotal NonRecurring		20.774		0.000		0.000		0.000		0.000		32.75

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number):

AH-64 Modifications - 0000

Related RDT&E PEs: Models of Systems Affected: Longbow Apache **Type Modification:** Operational & Reliability

Improvements and Resolve Obsolescence Issues

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	Tot	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Total, Airframe	25	48.557	0	21.733	0	17.998	0	19.864	0	72.648	43	210.12
Armament (13)												
A Kits												
Recurring												
PIU Obsolescence	0	6.500	0	0.000	0	0.000	0	0.000	0	0.000	0	12.50
Subtotal Recurring		6.500		0.000		0.000		0.000		0.000		12.50
B Kits					,	,					,	
NonRecurring												
Lightweight Missile Launcher	298	29.826	57	5.717	146	14.692	154	15.427	0	0.000	655	65.66
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	79.133	0	79.13
Subtotal NonRecurring		29.826		5.717		14.692		15.427		79.133		144.79
Total, Armament	298	36.326	57	5.717	146	14.692	154	15.427	0	79.133	655	157.29
Mission Command (14)												
A Kits												
Recurring												
Processors	0	11.324	0	24.266	0	33.209	0	13.149	0	0.000	0	93.94
Displays	0	7.700	0	5.617	0	7.650	0	7.650	0	0.000	0	33.61
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	289.996	0	289.99
Subtotal Recurring		19.024		29.883		40.859		20.799		289.996		417.56
Total, Mission Command	0	19.024	0	29.883	0	40.859	0	20.799	0	289.996	0	417.56
Sensors <sup>(15)</sup>												
A Kits												
Recurring												
Fire Control Radar	0	9.000	0	9.000	0	10.822	0	0.000	0	0.000	0	28.82
MTADS/PNVS	0	12.880	0	13.158	0	17.806	0	15.357	0	0.000	0	70.66
RFI	0	3.699	0	0.000	0	0.000	0	0.000	0	0.000	0	8.06
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	95.906	0	95.90

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA6605 - AH-64 MODS

Modification Nomenclature

(Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs:

Improvements and Resolve Obsolescence Issues

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)										
Subtotal Recurring		25.579		22.158		28.628		15.357		95.906		203.46
B Kits												
NonRecurring												
MDSA Phase 1	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	138	81.52
El2	264	21.370	0	0.000	0	0.000	0	0.000	0	0.000	264	21.37
Subtotal NonRecurring		21.370		0.000		0.000		0.000		0.000		102.89
Total, Sensors	264	46.949	0	22.158	0	28.628	0	15.357	0	95.906	402	306.35
Support Elements (16)												
A Kits												
Recurring												
Post Production Organic Support	0	0.000	0	0.000	0	2.764	0	0.000	0	0.000	0	11.20
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	24.003	0	24.00
Subtotal Recurring		0.000		0.000		2.764		0.000		24.003		35.20
Total, Support Elements	0	0.000	0	0.000	0	2.764	0	0.000	0	24.003	0	35.20
Training Systems <sup>(17)</sup>												
A Kits												
Recurring												
Operator Devices	0	12.000	0	2.500	0	4.307	0	0.800	0	0.000	0	36.58
Maintainer Devices	0	4.500	0	4.700	0	4.200	0	2.675	0	0.000	0	19.78
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	18.890	0	18.89
Subtotal Recurring		16.500		7.200		8.507		3.475		18.890		75.25
Total, Training Systems	0	16.500	0	7.200	0	8.507	0	3.475	0	18.890	0	75.25
Total, All Modifications		167.356		86.691		113.448		74.922		580.576		7,532.43
Procurement Cost (Procurement + Support)		167.356		86.691		113.448		74.922		580.576		7,532.43
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		23.50
Total Cost (Procurement + Support + Installation)		167.356		86.691		113.448		74.922		580.576		7,555.93

Remarks:

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Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA6605 - AH-64 MODS			Modification Nomenclature (Modification Title, Modification Number): AH-64 Modifications - 0000
Models of Systems Affected: Longbow Apache	1	Modification: Operational & Reliability vements and Resolve Obsolescence Issues	Relate	ed RDT	&E PEs:

FY12 funding will be used to procure 160 launchers, which will support NG1-3 fielding of Attack Battalions. Per Basis of Issue Plan, 4 Launchers are required per helicopter (4 LWML = 1 ship set/aircraft).

AH-64D remanufacturing efforts generate greater attack helicopter combat power for OEF/OND and accelerates Reserve Component by cascading Longbow Block I aircraft directly to United States Army Reserve and Army National Guard Apache battalions.

(8) Funding totals include \$120.834 Million in FY 11-12 to procure 158 Laser Rangefinder/Designator (M-LRFD) with spares to support the Apache AH-64 fleet. The M-LRFD unit will replace the obsolete Laser Transceiver Unit (LTU) to mitigate ongoing risks, improve reliability and maintainability, and reduce O&S costs associated with the LTU and the Laser Electronics Unit (LEU) which contain 30 year old technology. The M-LRFD provides laser ranging, designation and target tracking capable by holding a laser beam on a stationary or moving point target for handoff. In addition, the M-LRFD will enable the Block III to be ready to meet technology insertion production timelines which the current 1970s technology does not.

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<sup>(1)</sup>Operational and logistical improvement. This is a critical stage in the Longbow remanufacturing effort as it produces a single configuration Modernized Target Acquisition Designation Sight (M-TADS) for AH-64 Extended Block II Upgrade (117 aircraft) and Longbow Apache Block III (AB3). This mod facilitates maintainers' access to Target Acquisition Designation Sight/Pilot Night Vision Sensor/MTADS (TADS/PNVS/MTADS) systems thereby allowing for accelerated application of outstanding Engineering Change Proposals (ECPs). Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrade/integration of hardware in the TADS/PNVS/MTADS. Funding is required throughout the AB3 program to overhaul sensors/ TADS Electronic Display and Controls (TEDACs), etc., through the Arizona Support Center (ASC) facility to the proper configuration for the AB3 aircraft.

<sup>(2)</sup> Funding supports Aviation Transformation Force Structure change requirements. It provides Aviation Maintenance Companies (AMC) and Aviation Support Companies (ASC) the ability to perform split-operations through the requisitioning of Apache Special Tools and Test Equipment (STTE). Also, funds are used for the procurement of Captive Harmonization Boresight Kits (CBHK) due to the increase in requirement to enable split-operations.

<sup>(3)</sup> The Modernized Target Acquisition & Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) modification program is the Army initiative to provide Second Generation FLIR sensors for the Apache fleet. Suite modifications encompass: M-TADS/PNVS Line Replaceable Units (LRUs), TADS Electronic Display and Control (TEDAC) assemblies, and the Integrated Helmet Display Sight System (IHDSS) assemblies. The SGF system improves overall pilotage and enhances the pilot's ability to engage targets during night and bad weather. Several specific improvements include, increased detection range, enhanced recognition and target identification, higher resolution and sensitivity for safety and pilotage performance (especially in adverse weather), better identifying of friend/foe during hostilities, and increased reliability and reduction in O&S costs.

<sup>(4)</sup> Funding total includes \$91.900 Million FY10 supplemental funding and \$170.600 Million FY11 funding to procure 8 BN sets of 24 each plus spares of Apache Video Unmanned Aircraft System (UAS) Interoperability Teaming - Level II (Apache VUIT-2) capability to support Overseas Contingency Operations (OCO). VUIT-2 gives Apache pilots the capability to receive off platform sensor video in the cockpit and transmit sensor data to the ground or other similarly equipped air platforms. This capability will improve situational awareness and enable real-time intelligence sharing. The complete modification includes UAS Level II interoperability and Apache sensor video transmission to the ground capabilities.

<sup>(5)</sup> Apache Mods and Recap provides near term improvements to the Apache fleet and focuses on reliability & safety (R&S) upgrades and operational deficiencies. The R&S mods and selected component recapitalization are being accomplished by the reman line, field retrofits, and through spares. Improvements focus on main transmission, rotor blades, gear boxes, and hydraulic systems. The program includes select Task Force Hawk initiatives (i.e., HF Radio or Satcom and New Digital Video Recorder). The selected component recap fixes were identified through a Sandia National Lab analysis of components coupled with the results of a nonrecurring engineering analysis of components. These assessments ensure that the recap resources are focused on the highest payoff components. Condition Based Maintenance (CBM) and expansion of the Modernized Signal Processing Unit (MSPU) capabilities will continue to evolve, reducing ownership costs and improving the maintenance posture and burden on the Warfighter.

<sup>(6)</sup> The M299A1 missile launcher is a lightweight upgrade to the current launcher used on the AH-64D. The new launcher addresses obsolescence issues and provides the additional capability of being able to fire all current Hellfire missiles and future missiles currently under development.

<sup>(7)</sup> Funding for the AH-64 Extended Block II+ Upgrade supports the remanufacture of additional AH-64A aircraft to the AH-64D configuration. Additional aircraft will field AH-64Ds to three National Guard battalions that would otherwise remain as AH-64A units. Funding line also includes funding to update aircraft systems and associated software. FY11 aircraft quantities include 12 aircraft for NG3 and 23 aircraft for NG4

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10  P-1 Line Item Nomenclature: AA6605 - AH-64 MODS  Modification Nomenclature (Modification Title, Modification Number): AH-64 Modifications - 0000			UNCLASSIFIED		
Models of Systems Affected: Longbow Apache  Type Modification: Operational & Reliability Improvements and Resolve Obsolescence Issues    Oh	Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Improvements and Resolve Obsolescence Issues  (9) The FCR is a monopulse, coherent Doppler radar system. It is a multimode system capable of acquiring moving and stationary targets in ground and air environments. It also provides navigational and provides the Longbow Apache with fire-and-forget capability. The FCR includes a Mast Mounted Assembly (MMA), Low Power Radio Frequency (I-PRF), Programmable Signal Processor (PSP), and RFI Line Replaceable Unit (LRU). This provides the aircrew with the capability to detect and locate moving and stationary ground targets, helicopters, and fixed wing aircraft, even when operating in limited adverse weather or minimum visibility conditions. The mast-mounted Radar Frequency Interferometer (RFI) provides threat emitter warming and azimuth direction finding/cueing.  (10) AH-64A to Block III (NRE): The evolutionary system improvement process that has kept the Apache AH-64 attack helicopter a viable combat multiplier for over 20 years has moved from the original AH-64A through two block improvement programs of the AH-64D clopsbow (Block I and Block II). The most significant modification and technological change was from the AH-64A to the AH-64D Block I configuration. The plan to remanufacture AH-64A aircraft directly into the AB3 configuration will require design work and the associated drawing changes not originally planned.  (11) AH-64D aircrew TADSS are the Longbow Crew Trainer (LCT) for individual/team training tasks, and the AH-64D amaned modules within the Aviation Combined Arms Tactical Trainer (AVCATT) for collective training. Maintenance Training Devices (MTD) for institutional training of AH-64D Military Operations Speciaties (MOS) 15R and 15Ya 1US Army Aviation Logistics School, Ft. Eustis comprise a range of thirteen (13) different devices, including the Multiplex, Avionics, Visionics, Visionics, Weapons & Electrical Systems Trainer (MAVWEST-L7), Airframe, Engine, and Drivetrain Systems Trainer (PTT).  (12) FY13 Base procurement dollars in the amount of \$29.320 Mil	Appropriation / Budget Activity / Budget Sub Activit 2031A / BA 2 / BSA 10	y:			(Modification Title, Modification Number):
piloting information on the surrounding terrain. The FCR, in combination with the Radio Frequency (RF) missile, provides the Longbow Apache with fire-and-forget capability. The FCR includes a Mast Mounted Assembly (MMA), Low Power Radio Frequency (LPRF), Programmable Signal Processor (PSP), and RFI Line Replaceable Unit (LRUI). This provides the aircrew with the capability to detect and locate moving and stationary ground targets, helicopters, and fixed wing aircraft, even when operating in limited adverse weather or minimum visibility conditions. The mast-mounted Radar Frequency Interferometer (RFI) provides threat emitter warning and azimuth direction finding/cucing.  (10)AH-64A to Block III (NRE): The evolutionary system improvement process that has kept the Apache AH-64 attack helicopter a viable combat multiplier for over 20 years has moved from the original AH-64A through two block improvement programs of the AH-64D Longbow (Block I and Block II). The most significant modification and technological change was from the AH-64A to the AH-64D block I configuration. The plan to remanufacture AH-64A aircraft directly into the AB3 configuration will require design work and the associated drawing changes not originally planned.  (11)AH-64D aircrew TADSS are the Longbow Crew Trainer (LCT) for individual/team training tasks, and the AH-64D manned modules within the Aviation Combined Arms Tactical Trainer (AVCATT) for collective training. Maintenance Training Devices (MTD) for institutional training of AH-64D minimal particle (13) different devices, including the Multiplex, Avionics, Visionics, Weapons & Electrical Systems Trainer (MAVWEST-L7), Airframe, Engine, and Dividual Trainer (ACDST-L6), and eleven (11) different actives, including the Multiplex, Avionics, Visionics, Weapons & Electrical Systems Trainer (MAVWEST-L7), Airframe, Engine, and Dividual Trainer (AEDST-L6), and eleven (11) different subsystem Part Task Trainers (PTT).  (12)F13 Base procurement dollars in the amount of \$29.320 Million supports by the	Models of Systems Affected: Longbow Apache			Related RDT	&E PEs:
through two block improvement programs of the AH-64D Longbow (Block I and Block II). The most significant modification and technological change was from the AH-64A to the AH-64D Block I configuration. The plan to remanufacture AH-64A aircraft directly into the AB3 configuration will require design work and the associated drawing changes not originally planned.  (11)AH-64D aircrew TADSS are the Longbow Crew Trainer (LCT) for individual/team training tasks, and the AH-64D manned modules within the Aviation Combined Arms Tactical Trainer (AVCATT) for collective training. Maintenance Training Devices (MTD) for institutional training of AH-64D Military Operational Specialties (MOS) 15R and 15Y at US Army Aviation Logistics School, Ft. Eustis comprise a range of thirteen (13) different devices, including the Multiplex, Avionics, Visionics, Weapons & Electrical Systems Trainer (MAVWEST-L7), Airframe, Engine, and Drivetrain Systems Trainer (AEDST-L6), and eleven (11) different subsystem Part Task Trainers (PTT).  (12)FY13 Base procurement dollars in the amount of \$29.320 Million supports improvements to the Structural Subsystem, Propulsion/Drive/Rotor Systems, Health Monitoring Systems, Recap Support / Kits and modernization of older technologies. Structural Subsystems and Propulsion/Drive/Rotor Systems work together to modify and improve performance by taking advantage of new technology and weight reduction efforts. Composite Main Rotor Blades allow the Longbow Apache to take advantage of the weight reduction and improved performance over the legacy metal main rotor blades. Improvements also affect the main engines as well as the gear boxes and associated drive system. The Health Monitoring System funding allows for the continued expansion of the MSPU capabilities adding the ability to monitor additional components and transition more dynamic parts to the condition based maintenance (CBM) posture. Funding for Recap Component kits allows for the depopulation and refurbishment of various items.  (13)FY13 Base procuremen	piloting information on the surrounding terrain. The FCR, in combin Assembly (MMA), Low Power Radio Frequency (LPRF), Programm and stationary ground targets, helicopters, and fixed wing aircraft, e provides threat emitter warning and azimuth direction finding/cueing	nation with able Sig even whe g.	th the Radio Frequency (RF) missile, provides the Longbow Apa nal Processor (PSP), and RFI Line Replaceable Unit (LRU). Then operating in limited adverse weather or minimum visibility cor	ache with fire-and- nis provides the air nditions. The mas	forget capability. The FCR includes a Mast Mounted crew with the capability to detect and locate moving the immunities and requency Interferometer (RFI)
collective training. Maintenance Training Devices (MTD) for institutional training of AH-64D Military Operational Specialties (MOS) 15R and 15Y at US Army Aviation Logistics School, Ft. Eustis comprise a range of thirteen (13) different devices, including the Multiplex, Avionics, Visionics, Weapons & Electrical Systems Trainer (MAVWEST-L7), Airframe, Engine, and Drivetrain Systems Trainer (AEDST-L6), and eleven (11) different subsystem Part Task Trainers (PTT).  (12)FY13 Base procurement dollars in the amount of \$29.320 Million supports improvements to the Structural Subsystem, Propulsion/Drive/Rotor Systems, Health Monitoring Systems, Recap Support / Kits and modernization of older technologies. Structural Subsystems and Propulsion/Drive/Rotor Systems work together to modify and improve performance by taking advantage of new technology and weight reduction efforts. Composite Main Rotor Blades allow the Longbow Apache to take advantage of the weight reduction and improved performance over the legacy metal main rotor blades. Improvements also affect the main engines as well as the gear boxes and associated drive system. The Health Monitoring System funding allows for the continued expansion of the MSPU capabilities adding the ability to monitor additional components and transition more dynamic parts to the condition based maintenance (CBM) posture. Funding for Recap Component kits allows for the depopulation and refurbishment of various items.  (13)FY13 Base procurement dollars in the amount of \$6.000 Million provides funding for Pylon Interface unit (PIU) obsolescence which will be used to address obsolescence issues on multiple components of the PIU.  (14)FY13 Base procurement dollars in the amount of \$17.000 Million supports the following improvements MTADS/PNVS, MDSA, and MRFI. MTADS/PNVS support will provide outstanding ECPs for Apache Sensors. MDSA will mitigate ongoing obsolescence risks, improves reliability and maintainability, and reduces O&S costs. MRFI will solve obsolescence issues for the Single Bo	through two block improvement programs of the AH-64D Longbow The plan to remanufacture AH-64A aircraft directly into the AB3 cor	(Block I a nfiguration	and Block II).  The most significant modification and technologion will require design work and the associated drawing changes	al change was fro not originally plan	m the AH-64A to the AH-64D Block I configuration. ned.
modernization of older technologies. Structural Subsystems and Propulsion/Drive/Rotor Systems work together to modify and improve performance by taking advantage of new technology and weight reduction efforts. Composite Main Rotor Blades allow the Longbow Apache to take advantage of the weight reduction and improved performance over the legacy metal main rotor blades. Improvements also affect the main engines as well as the gear boxes and associated drive system. The Health Monitoring System funding allows for the continued expansion of the MSPU capabilities adding the ability to monitor additional components and transition more dynamic parts to the condition based maintenance (CBM) posture. Funding for Recap Component kits allows for the depopulation and refurbishment of various items.  (13)FY13 Base procurement dollars in the amount of \$6.000 Million provides funding for Pylon Interface unit (PIU) obsolescence which will be used to address obsolescence issues on multiple components of the PIU.  (14)FY13 Base procurement dollars in the amount of \$17.000 Million supports critical upgrades and solve obsolescence issues with the Mission Command Processors and Displays.  (15)FY13 Base procurement dollars in the amount of \$97.361 Million supports the following improvements MTADS/PNVS, MDSA, and MRFI. MTADS/PNVS support will provide outstanding ECPs for Apache Sensors. MDSA will mitigate ongoing obsolescence risks, improves reliability and maintainability, and reduces O&S costs. MRFI will solve obsolescence issues for the Single Board Computer and Parameter Measurement Unit chip.  (16)FY13 Base procurement dollars in the amount of \$8.438 Million supports the Depot Level Repairable (DLR) transition from Original Equipment Manufacturer (OEM) to the Corpus Christi Army Depot (CCAD) or Tobyhanna Army Depot (TYAD).	collective training. Maintenance Training Devices (MTD) for institu range of thirteen (13) different devices, including the Multiplex, Avio	tional tra	iining of AH-64D Military Operational Specialties (MOS) 15R an	d 15Y at US Army	Aviation Logistics School, Ft. Eustis comprise a
the PIU.  (14)FY13 Base procurement dollars in the amount of \$17.000 Million supports critical upgrades and solve obsolescence issues with the Mission Command Processors and Displays.  (15)FY13 Base procurement dollars in the amount of \$97.361 Million supports the following improvements MTADS/PNVS, MDSA, and MRFI. MTADS/PNVS support will provide outstanding ECPs for Apache Sensors. MDSA will mitigate ongoing obsolescence risks, improves reliability and maintainability, and reduces O&S costs. MRFI will solve obsolescence issues for the Single Board Computer and Parameter Measurement Unit chip.  (16)FY13 Base procurement dollars in the amount of \$8.438 Million supports the Depot Level Repairable (DLR) transition from Original Equipment Manufacturer (OEM) to the Corpus Christi Army Depot (TVAD).  (17)FY13 Base procurement dollars in the amount of \$20.686 Million provides concurrency and obsolescence updates for the Apache operator and maintainer training systems.	modernization of older technologies. Structural Subsystems and Prefforts. Composite Main Rotor Blades allow the Longbow Apache to main engines as well as the gear boxes and associated drive system components and transition more dynamic parts to the condition bas	ropulsior to take a m. The ted main	n/Drive/Rotor Systems work together to modify and improve per dvantage of the weight reduction and improved performance ov Health Monitoring System funding allows for the continued expate tenance (CBM) posture. Funding for Recap Component kits all	formance by taking er the legacy meta ansion of the MSPI ows for the depop	g advantage of new technology and weight reduction all main rotor blades. Improvements also affect the U capabilities adding the ability to monitor additional ulation and refurbishment of various items.
(15)FY13 Base procurement dollars in the amount of \$97.361 Million supports the following improvements MTADS/PNVS, MDSA, and MRFI. MTADS/PNVS support will provide outstanding ECPs for Apache Sensors. MDSA will mitigate ongoing obsolescence risks, improves reliability and maintainability, and reduces O&S costs. MRFI will solve obsolescence issues for the Single Board Computer and Parameter Measurement Unit chip.  (16)FY13 Base procurement dollars in the amount of \$8.438 Million supports the Depot Level Repairable (DLR) transition from Original Equipment Manufacturer (OEM) to the Corpus Christi Army Depot (TOAD) or Tobyhanna Army Depot (TYAD).  (17)FY13 Base procurement dollars in the amount of \$20.686 Million provides concurrency and obsolescence updates for the Apache operator and maintainer training systems.	(13)FY13 Base procurement dollars in the amount of \$6.000 Million the PIU.	provides	s funding for Pylon Interface unit (PIU) obsolescence which will	be used to addres	s obsolescence issues on multiple components of
(15)FY13 Base procurement dollars in the amount of \$97.361 Million supports the following improvements MTADS/PNVS, MDSA, and MRFI. MTADS/PNVS support will provide outstanding ECPs for Apache Sensors. MDSA will mitigate ongoing obsolescence risks, improves reliability and maintainability, and reduces O&S costs. MRFI will solve obsolescence issues for the Single Board Computer and Parameter Measurement Unit chip.  (16)FY13 Base procurement dollars in the amount of \$8.438 Million supports the Depot Level Repairable (DLR) transition from Original Equipment Manufacturer (OEM) to the Corpus Christi Army Depot (TOAD) or Tobyhanna Army Depot (TYAD).  (17)FY13 Base procurement dollars in the amount of \$20.686 Million provides concurrency and obsolescence updates for the Apache operator and maintainer training systems.	(14)FY13 Base procurement dollars in the amount of \$17.000 Million	n suppor	ts critical upgrades and solve obsolescence issues with the Mis	sion Command Pr	rocessors and Displays.
or Tobyhanna Army Depot (TYAD).  (17) FY13 Base procurement dollars in the amount of \$20.686 Million provides concurrency and obsolescence updates for the Apache operator and maintainer training systems.	(15)FY13 Base procurement dollars in the amount of \$97.361 Million Sensors. MDSA will mitigate ongoing obsolescence risks, improves Measurement Unit chip.	n suppor s reliabili	ts the following improvements MTADS/PNVS, MDSA, and MRF ty and maintainability, and reduces O&S costs. MRFI will solve	I. MTADS/PNVS obsolescence iss	support will provide outstanding ECPs for Apache ues for the Single Board Computer and Parameter
	or Tobyhanna Army Depot (TYAD).				
Manufacturer Information: Apache Sensors Life Extension & Upgrade			es concurrency and obsolescence updates for the Apache opera	ator and maintaine	r training systems.
	Manufacturer Information: Apache Sensors Life Extension & Upg	grade			

Manufacturer Informati	ion: Apache Sensors Life E	xtension & Upgrade										
Manufacturer Name: Var	rious			Manufacturer Location: Va	arious							
Administrative Leadtime	(in Months): 2			Production Leadtime (in N	fonths): 1							
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017					
Contract Dates	Nov 2011											
Delivery Dates	Dec 2011											
Manufacturer Informati	ion: AH-64A MISC Mods \$5	M or less (no P3a set)										
Manufacturer Name: NA Manufacturer Location: NA												
Administrative Leadtime (in Months):  Production Leadtime (in Months):												

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Exhibit P-3A, Indiv	idual Modification: Pl	3 2013 Army				Date: February 2012	-							
<b>Appropriation / Bu</b> 2031A / BA 2 / BSA	dget Activity / Budge 10	t Sub Activity:	P-1 Line Item No AA6605 - AH-64 I			Modification Nome (Modification Title, M AH-64 Modifications	lodification Number <mark>)</mark>							
Models of Systems	Affected: Longbow A		ype Modification: Ope mprovements and Reso	rational & Reliability lve Obsolescence Issues		DT&E PEs:								
Manufacturer Information	on: AH-64A MISC Mods \$5	M or less (no P3a s	set)		'									
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017							
Contract Dates	Feb 2012													
Delivery Dates	Feb 2012													
Manufacturer Informati	on: Apache Transformation	n (no P3a set)	'			1								
Manufacturer Name: NA				Manufacturer Location: NA	\									
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):									
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017							
Contract Dates	Feb 2012													
Delivery Dates	Feb 2012													
Manufacturer Informati	on: Modernized TADS/PNV	S (M-TADS)												
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: Orl	lando, FL									
Administrative Leadtime	(in Months): 2			Production Leadtime (in Months): 24										
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017							
Contract Dates		Dec 2011												
Delivery Dates		Dec 2013												
Manufacturer Informati	on: Video from UAS Intero	perability Teaming	(VUIT-2)											
Manufacturer Name: Scient	ence and Engineering Service	es, Inc		Manufacturer Location: Hu	ntsville, AL									
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):									
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017							
Contract Dates	Apr 2010													
Delivery Dates														
Manufacturer Informati	on: Apache Product Impro	vements												
Manufacturer Name: Var	ious			Manufacturer Location: Va	rious									
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):									
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017							
Contract Dates			Feb 2012											
Delivery Dates			Mar 2012											
Manufacturer Informati	on: Lightweight Missile La	uncher (LWML)												
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: Orlando, FL										

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Exhibit P-3A, Indiv	idual Modification: P	B 2013 Army				Date: February 2012	
Appropriation / Bu 2031A / BA 2 / BSA	<b>dget Activity / Budge</b> 10	et Sub Activity:	<b>P-1 Line Item No</b> AA6605 - AH-64 N			Modification Nomer (Modification Title, M AH-64 Modifications	odification Number)
Models of Systems	S Affected: Longbow /		Type Modification: Ope mprovements and Reso	rational & Reliability lve Obsolescence Issues		DT&E PEs:	
Manufacturer Informati	on: Lightweight Missile La	nuncher (LWML)	·				
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Sep 2007						
Delivery Dates							
Manufacturer Informati	on: Apache Upgrades and	Remanufacture		<u> </u>		·	
Manufacturer Name: Boo	eing			Manufacturer Location: Me	esa, AZ		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Mar 2006						
Delivery Dates							
Manufacturer Informati	on: Modernized Day Side	Assembly (M-DSA)	, Phase1	<u> </u>		·	
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: Orl	ando, FL		
Administrative Leadtime	(in Months): 6			Production Leadtime (in Mo	onths): 30		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Sep 2011						
Delivery Dates	Mar 2013						
Manufacturer Informati	on: Fire Control Radar (FC	CR)		<u> </u>			
Manufacturer Name: Lor	gbow Limited			Manufacturer Location: Ow	vego, NY		
Administrative Leadtime	(in Months): 4			Production Leadtime (in Mo	onths): 24		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Jan 2012						
Delivery Dates	Jan 2014						
Manufacturer Informati	on: Apache Block III			<u> </u>			
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates			Feb 2012				
Delivery Dates			Feb 2012				

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Exhibit P-3A, Indiv	idual Modification: P	PB 2013 Army				Date: February 2012			
Appropriation / Bud 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity:	<b>P-1 Line Item No</b> AA6605 - AH-64 I			Modification Nomer (Modification Title, M AH-64 Modifications	odification Number):		
Models of Systems	Affected: Longbow		ype Modification: Ope mprovements and Reso	rational & Reliability lve Obsolescence Issues		DT&E PEs:			
Manufacturer Information	on: Apache Training Aids	, Devices, Simulator	rs & Simul		·				
Manufacturer Name: .				Manufacturer Location: .					
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates			Feb 2012						
Delivery Dates			Feb 2012						
Manufacturer Information	on: Airframe			<u>.                                    </u>		•			
Manufacturer Name: .				Manufacturer Location: .					
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates									
Delivery Dates									
Manufacturer Information	on: Armament		·	<u> </u>		·			
Manufacturer Name: .				Manufacturer Location: .					
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates									
Delivery Dates									
Manufacturer Information	on: Mission Command								
Manufacturer Name: .				Manufacturer Location: .					
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates									
Delivery Dates									
Manufacturer Information	on: Sensors								
Manufacturer Name: Lock	kheed Martin			Manufacturer Location: Orl	lando, FL				
Administrative Leadtime	(in Months):			Production Leadtime (in Months):					
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates									

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Exhibit P-3A, Indiv	vidual Modification: PE	3 2013 Army							D	ate: Febru	uary 2012		
•	udget Activity / Budge			<b>ine Item N</b> 05 - AH-64		ture:			(Λ	∕lodificatio	n Nomen n Title, Mo ifications -	dification l	Number):
Models of System	s Affected: Longbow A		rpe Modific					Relat	ed RDT&E	PEs:			
Manufacturer Informat	ion: Support Elements	'											
Manufacturer Name: .					Man	ufacturer Loc	ation: .						
Administrative Leadtime	(in Months):				Prod	uction Leadti	me (in Month	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 201	5	FY 20	16	FY 2	.017
Contract Dates													
Delivery Dates													
Manufacturer Informat	ion: Training Systems												
Manufacturer Name: .			Man	ufacturer Loc	ation: .								
Administrative Leadtime	(in Months):				Prod	uction Leadti	me (in Month	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 201	5	FY 20	16	FY 2	.017
Contract Dates													
Delivery Dates													
Installation: Apache Se	ensors Life Extension & Upgra	ade <b>M</b> e	thod of Impl	ementation:	: Modificatio	n		Installa	ation Name:				
			Years		2011	1	2012		13 Base	FY 20°	13 OCO	FY 201	13 Total
Installation Cost		Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
All Prior Years		621	0.000	12	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011		(	0.000	24	0.000	12	0.000	0	0.000	0	0.000	0	0.000
FY 2012		(	0.000	0	0.000	45	0.000	0	0.000	0	0.000	0	0.000
FY 2013		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete		(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	
Total		621	0.000	36	0.000	57	0.000	0	0.000	0	0.000	0	0.000

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Apache Sensors Life Extension & Upgrade Method of Implementation: Modification Installation Name: FY 2015 FY 2016 FY 2017 FY 2014 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) 0 0.000 0.000 0 0.000 0 0.000 0 0.000 633 0.000 All Prior Years FY 2011 0 0.000 0.000 0.000 0.000 0.000 36 0.000 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 45 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 FY 2014 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 2 4 1 2 3 4 1 2 3 4 1 2 4 1 2 4 1 2 4 1 2 4 TC Tot 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 714 In 642 0 0 0 12 12 12 12 12 12 9 0 0 0 0 714 Out 621 12 Installation: AH-64A MISC Mods \$5M or less (no P3a set) Method of Implementation: NA Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qtv **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qtv Total Cost Installation Cost (Each) (\$ M) All Prior Years 0.000 0.000 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2011 0 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 FY 2014 0 0.000 Ω 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000 FY 2016 0.000 0.000 0.000 0.000 0 0.000 0 0.000

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<b>Exhibit F</b>	P-3	A, Iı	ndi	ividu	al N	/lodif	icati	on: F	PB 2	)13 <i>A</i>	٩rmy																Date	: Feb	ruary	2012				
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Models o	of :	Syst	ten	ns Ai	fec	ted:	Long	bow	Ара	che								erationa olve Ob					s	Re	lated	RDT	&E P	Es:						
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FY 2016												C	)	0.00	0		0	0.00	00		0		0.000		0	0.0	000		0	0.000		(	)	0.00
FY 2017												C	)	0.00	0		0	0.00	00		0		0.000		0	0.0	000		0	0.000		(	)	0.00
To Comple	te													0.00			0	0.00			0		0.000		0		000		0	0.000		(		0.00
Total												(	)	0.00	0		0	0.00	00		0		0.000		0	0.0	000		0	0.000		(	)	0.00
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Installation	n: /	pach	e T	ransfo	rma	tion (n	o P3a	set)				Me	ethod o	of Im	plemei	ntatio	n: N	NA						Ins	tallatio	n Nam	e:							
												Prior	Years	;		FY	20	)11			FY 2	012		FY	2013 E	Base		FY 2	013 O	co		FY 20	13 Tota	al
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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Modification Nomenclature
2031A / BA 2 / BSA 10	AA6605 - AH-64 MODS	(Modification Title, Modification Number):
		AH-64 Modifications - 0000

Type Modification: Operational & Reliability Improvements and Resolve Obsolescence Issues Models of Systems Affected: Longbow Apache Related RDT&E PEs:

Installation: Apache Transformation (no P3a set)	Me	thod of Impl	ementation	: NA			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	13 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #22

UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Apache Transformation (no P3a set) Method of Implementation: NA Installation Name: Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016** FY 2017 **APY** 1 2 4 2 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 4 2 3 4 TC 1 3 3 1 Tot In 0 Out 0 0 0 0 0 0 Installation: Modernized TADS/PNVS (M-TADS) Method of Implementation: Modification Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Total Cost Qty **Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Installation Cost (\$ M) (Each) (Each) (\$ M) (Each) (Each) (Each) (Each) 446 0.000 53 0.000 31 0.000 0.000 0 0.000 0 0.000 All Prior Years FY 2011 0.000 0.000 0.000 15 0.000 0.000 15 0 12 0 0.000 0 0 FY 2012 0 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2014 0.000 0 0.000 0.000 0.000 0.000 0 0.000 FY 2015 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0 0 0.000 0.000 0 0.000 0.000 0 0.000 FY 2016 0.000 0 0 0

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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	530	0.000
FY 2011	8	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA6605 - AH-64 MODS	Modification Nomenclature (Modification Title, Modification Number): AH-64 Modifications - 0000

Type Modification: Operational & Reliability Improvements and Resolve Obsolescence Issues Models of Systems Affected: Longbow Apache Related RDT&E PEs:

Installation: Modernized TADS/PNVS (M-TADS)	Me	thod of Impl	ementation:	Modification	l		Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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)
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	8	0.000	0	0.000	0	0.000	0	0.000	0	0.000	565	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	0	0	0	0	11	10	10	12	0	0	6	9	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	565
Out	499	0	0	0	0	11	10	10	12	0	0	6	9	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	565

Installation: Video from UAS Interoperability Teaming (VUIT-	2) Met	hod of Imple	ementation:				Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	24	0.000	24	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	36	0.000	108	0.000	0	0.000	108	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	24	0.000	60	0.000	108	0.000	0	0.000	108	0.000

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Video from UAS Interoperability Teaming (VUIT-2) Method of Implementation: . Installation Name: FY 2015 FY 2016 FY 2017 FY 2014 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) 0 0.000 0.000 0 0.000 0 0.000 0 0.000 48 0.000 All Prior Years FY 2011 0 0.000 0.000 0.000 0.000 0.000 144 0.000 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 FY 2014 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 192 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 2 4 1 2 3 4 1 2 3 4 1 2 4 1 2 4 1 2 4 1 2 3 4 TC Tot In 24 0 0 36 36 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 192 24 36 0 0 0 24 0 0 36 36 0 0 0 0 192 Out 24 36 36 0 Installation: Apache Product Improvements Method of Implementation: Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qtv **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qtv Total Cost Installation Cost (Each) (\$ M) All Prior Years 772 19.200 0.000 0.000 0.000 0.000 0.000 100 1.800 0.000 0.000 0.000 0.000 0 0.000 FY 2011 0 FY 2012 100 2.500 0.000 0 0.000 60 0.000 0 0.000 60 0.000 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2014 0 0.000 Ω 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000 FY 2016 0.000 0.000 0.000 0.000 0 0.000 0 0.000

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	r <b>opria</b> A / B				Activi	ty / B	udge	t Sub	Acti	vity:			<b>Line I</b> 605 -			encla DDS	ture:							(Mc	<b>dificat</b> i o <i>dificati</i> -64 Mo	on T	itle, M	odific	cation	Num	ber <b>)</b> :
Mod	els of	Sys	tems	Affe	cted:	Long	bow A	Apach	е		•					tional Obse			•	S	Re	lated	RDT8	ξE I	PEs:						
Instal	lation:	Apach	ne Prod	duct Im	prover	nents				М	ethod	of Im	plemer	ntation	:.						Inst	allatio	n Name	e:							
										Prio	r Year	s		FY	2011			FY 2	2012		FY	2013 E	Base		FY 2	013 O	СО		FY 20	13 Tot	al
Instal	lation	Cost								<b>Qty</b> (Each)		al Cost		Qty ach)		al Cost	Qı (Ea		Total (		<b>Qty</b> (Each)	1	Total Cost (\$ M)	t	Qty (Each)		otal Cost (\$ M)		<b>Qty</b> (Each)		al Cost
FY 20	17										0	0.00	0	0		0.000		0		0.000		0	0.0	00		0	0.00	3	0	)	0.000
To Co	mplete										0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.00	3	0	)	0.000
Total										97	2	23.50	0	0		0.000		0		0.000		60	0.00	00		0	0.000	<b>)</b>	60	)	0.000
										FY	2014			FY	2015			FY 2	2016			FY 201	7		To C	ompl	ete		T(	otal	
Instal	lation	Cost								Qty (Each)		al Cost		Qty ach)		al Cost	Qt (Ea	ty ich)	Total (		Qty (Each)		Total Cost	t	Qty (Each)		otal Cost		Qty (Each)		al Cost
All Pri	ior Years							. ,	0	0.00	10	0		0.000	_	0	,	0.000		0	0.00	00		0	0.000	5	772	2	19.200		
FY 20	11	115							0	0.00	0	0		0.000		0		0.000		0	0.0	00		0	0.000	0	100	)	1.800		
FY 20	12									1	0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.000	٥	170	)	2.500
FY 20	13										0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.000	0	0	)	0.000
FY 20	14										0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.000	0	0	)	0.000
FY 20	15										0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.00	3	0	)	0.000
FY 20	16										0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.00	3	0	)	0.000
FY 20	17										0	0.00	0	0		0.000		0		0.000		0	0.0	00		0	0.000	3	0	)	0.000
To Co	mplete										0	0.00	0	0		0.000		0		0.000		0	0.0	00		0	0.000	3	0	)	0.000
Total										1	0	0.00	0	0		0.000		0		0.000		0	0.0	00		0	0.000	<u>ي</u>	1,042	!	23.500
Instal	lation	Sched					_						_				_														
				2011	1 .			2012	_			2013	1 .			2014	1 .	<u> </u>	_	2015			FY 20				FY 2				
	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	972	0		_				0	0	15	15	15		0	0			-		_	0 0	0	0		0 0	0	-	0			1,042
Out	972	U	U	0	0	0	0	U	U	15	15	15	15	0	U	) 10	0		) 0		0	0	0		0 0	U	0		0	0	1,042
Installation: Lightweight Missile Launcher (LWML)  Method of Implementation: Modification  Installation N												n Name	e:																		
										Prio	r Year	s		FY	2011			FY 2	2012		FY	2013 E	Base		FY 2	013 O	СО		FY 20	13 Tot	al
Instal	lation	Cost								<b>Qty</b> (Each)		al Cost		Qty (ach)		al Cost	Qı (Ea		Total (		Qty (Each)		Total Cost (\$ M )	t	Qty (Each)		otal Cost (\$ M )		<b>Qty</b> (Each)		al Cost
All Pri	or Yea	s									0	0.00	10	0		0.000		0		0.000		0	0.0	00		0	0.00	5	0	)	0.000
ΙΙΛΛ	6605	ΛЦ	64 N	1000										UN	CI A	SSIF	IFD														

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

Modification Nomenclature
(Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability

Related RDT&E PEs:

Improvements and Resolve Obsolescence Issues

Installation: Lightweight Missile Launcher (LWML)	Me	thod of Impl	ementation:	Modification	1		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)						
FY 2011	0	0.000	0	0.000	362	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	160	0.000	0	0.000	160	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	362	0.000	160	0.000	0	0.000	160	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	362	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	160	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	0.000

LI AA6605 - AH-64 MODS Army

Exhibit P-3A, Individual Modification: PB 2013 Army **Date:** February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 (Modification Title, Modification Number): AA6605 - AH-64 MODS AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache **Type Modification:** Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Lightweight Missile Launcher (LWML) Method of Implementation: Modification **Installation Name:** Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 APY TC Tot In Out Method of Implementation: Remanufacture Installation Name:

Installation: Apache Upgrades and Remanufacture	Me	thod of Impl	ementation:	Remanufac	ture		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 2013	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	129	0.000	47	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	13	0.000	23	0.000	0	0.000	23	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	129	0.000	47	0.000	13	0.000	23	0.000	0	0.000	23	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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	176	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	36	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Related RDT&E PEs: Type Modification: Operational & Reliability

Improvements and Resolve Obsolescence Issues

Installation: Apache Upgrades and Remanufacture	Me	thod of Impl	ementation	Remanufac	ture		Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	otal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	212	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	176	3	4	3	3	5	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
Out	176	0	0	0	0	3	4	3	3	5	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212

Installation: Modernized Day Side Assembly (M-DSA), Phas	e1 Me	thod of Impl	ementation:	Modification	1		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	11	0.000	0	0.000	11	0.000
FY 2012	0	0.000	0	0.000	0	0.000	6	0.000	0	0.000	6	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	17	0.000	0	0.000	17	0.000

**UNCLASSIFIED** 

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Modernized Day Side Assembly (M-DSA), Phase1 Method of Implementation: Modification Installation Name: FY 2015 FY 2016 FY 2017 FY 2014 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years FY 2011 0 0.000 0.000 0.000 0.000 0.000 11 0.000 0 FY 2012 141 0.000 0 0.000 0 0.000 0 0.000 0.000 147 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 FY 2014 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 4 1 4 1 2 3 4 1 2 4 1 2 4 1 2 4 1 2 3 4 TC Tot In 0 0 0 0 0 0 0 0 6 26 45 52 0 0 0 0 0 0 0 0 0 158 10 18 0 0 0 0 0 17 26 45 52 18 0 0 0 158 Out Installation: Fire Control Radar (FCR) Method of Implementation: Modification Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qty **Total Cost** Qtv **Total Cost Total Cost** Qty **Total Cost** Qtv Total Cost Installation Cost (Each) (\$ M) All Prior Years 0.000 0.000 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 3 0.000 FY 2011 0 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 FY 2014 0 0.000 Ω 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000

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FY 2016

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P-1 Line #22

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Exhibit I	P-3	BA, I	nd	ivid	ual	Modi	fica	ior	ı: PB	201	3 Arm	ıy															Date	: Feb	ruary	2012				
<b>Appropi</b> 2031A /						Activ	ity /	Bu	dget	Sub	Activ	/ity:						lomen I MOD		ure:							(Moa	lificati	on Ti	omeno tle, Mo tions -	dific	ation	Numi	ber):
Models	of	Sys	ter	ns A	Affe	cted:	Lon	gbo	ow A	pach	е							eratio olve C					s	Re	ated	RDT8	E PI	Es:						
Installatio	n: l	Fire C	ont	rol R	adar	(FCR)	1					М	ethod	of In	nplem	nenta	ation:	Modific	cation					Inst	allatio	n Name	):							
												Prio	r Yea	s			FY 2	2011			FY 2	012		FY	2013 B	Base		FY 2	013 O	co		FY 20	13 Tota	al
Installatio	n C	ost										<b>Qty</b> Each)		tal Cos	t	Qty (Eac		Total C		Qty (Eac		Total (		Qty (Each)		otal Cost		Qty (Each)		tal Cost (\$ M )		Qty ach)		I Cost
FY 2017													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
To Comple	ete												0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
Total													0	0.0	000		0		0.000		24		0.000		3	0.0	00		0	0.000		3	3	0.000
												FY	2014				FY 2	2015			FY 2	016		ı	Y 201	7		То С	omple	te		To	otal	
Installatio	n C	ost										<b>Qty</b> Each)		tal Cos (\$ M )	t	Qty (Eac		Total C (\$ M		Qty (Eac		Total (		<b>Qty</b> (Each)	T	otal Cost		<b>Qty</b> (Each)		tal Cost (\$ M )	(E	Qty ach)		I Cost
All Prior Ye	ears	5											0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		24	ļ.	0.000
FY 2011													9	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		12	2	0.000
FY 2012													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		O	)	0.000
FY 2013													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		O	)	0.000
FY 2014													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		O	)	0.000
FY 2015													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
FY 2016													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
FY 2017													0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
To Comple	ete												0	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		C	)	0.000
Total													9	0.0	000		0		0.000		0		0.000		0	0.0	00		0	0.000		36	5	0.000
Installatio	n S	ched				_											_																	1
			_	FY 20		1 .	ļ ,		FY 20					2013				FY 20				_	2015		. [	FY 2				FY 20				
AP'	Y	1	-	2	3	4	1	7	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 -		0		0	0		-	7	8	6	3	0	0		_	1	0	5	4	0	0		1	0	0	0	0	0	0	0	0	0	_	-
Out -		0		U	U	(		/	8	6	3	U	U	,	2	1	U	5	4	U	U	0	U	U	U	0	U	U	0	U	U	U	U	36
Installatio	n: /	Apach	ne E	Block	III							М	ethod	of In	plem	enta	ation:							Inst	allatio	n Name	):							
												Prio	r Yea	's			FY 2	2011			FY 2	012		FY	2013 B	Base		FY 2	013 O	co		FY 20	13 Tota	al
	n C	net										Qty		al Cos	t	Qty		Total C		Qty		Total (		Qty (Each)	T	otal Cost		Qty (Each)		tal Cost		Qty		I Cost
Installatio	,,, C	,001									(	Each)		(\$ M )		(Eac	:11)	(\$ M	1)	(Eac	n)	(\$ N	1)	(Eacii)		(\$ IVI )		(Lacii)		(\$ M )	(=	ach)	(φ	, ,,,

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P-1 Line #22

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Modification Nomenclature
2031A / BA 2 / BSA 10	AA6605 - AH-64 MODS	(Modification Title, Modification Number
		AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Related RDT&E PEs:

Type Modification: Operational & Reliability Improvements and Resolve Obsolescence Issues

Installation: Apache Block III	Me	thod of Impl	ementation:	١.			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)						
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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														• • • •		<b>-</b>																
Exh	ibit P	3A, I	ndivi	dual	Modi	ficati	on: Pl	B 201	3 Arr	ny														Dat	e: Fe	ebrua	ary 2	2012				
	ropria 1A / B				Activ	ity / E	Budge	t Sub	Acti	vity:			_		<b>Nome</b> 4 MOI		ture:							(Mc	difica	ation	Titi	omend le, Modions -	difica		Numl	ber <b>)</b> :
Mod	lels o	Sys	tems	Affe	cted:	Long	bow A	Apach	е						peration					es	Re	elated	RDT	&Е I	PEs:							
Insta	llation:	Apach	ne Bloo	k III						M	ethod	of Imp	lemei	ntation	:.						Ins	tallati	on Nam	ie:								
Insta	llation	Sched	ule																													
			FY	2011			FY 2	2012			FY 2	013			FY 2	014			F١	Y 2015			FY 2	2016				FY 20	17			
	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	-	0	0	_	-	_	-		0		0	0	0	_	0	0			_	_	0 0	-			0	0	0	0	0	0	0	_
Out	-	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	(
Insta	llation:	Apach	ne Trai	ning A	ids, De	evices.	Simulat	ors & S	Simul	M	ethod	of Imp	lemei	ntation	:.						Ins	tallati	on Nam	e:								
		•				•					r Year				2011			FY 2	2012		FY	2013	Base		FY	2013	ос	0	F	Y 201	3 Tota	al
la a 4 a	II a 4! a .a	04								Qty		al Cost		Qty	Total		Qt			al Cost	Qty		Total Cos	st	Qty			al Cost	Qt			l Cost
	<b>Ilation</b> ior Yea									(Each)	0	\$ M ) 0.000	+	Each)	(\$ 1	И) 0.000	(Ea	ch) 24	(\$	0.000	(Eacl	0	(\$ M )	000	(Each	0	(\$	0.000	(Ea	<i>ch)</i> 0		0.00
FY 20		5									0	0.000				0.000		0		0.000		0		000		0		0.000		0		0.00
FY 20											0	0.000		0		0.000		0		0.000		0		000		0		0.000		0		0.00
FY 20											0	0.000		0		0.000		0		0.000		0		000		0		0.000		0		0.00
FY 20											0	0.000	)	0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20	)15									-	0	0.000		0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20	)16										0	0.000	)	0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20	)17									-	0	0.000	)	0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
To C	omplete										0	0.000	)	0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
Total										(	0	0.000		1		0.000		24		0.000		0	0.0	000		0		0.000		0		0.00
										FY	2014			FY	2015			FY 2	2016			FY 20	)17		To	Com	plet	e		То	tal	
Ineta	llation	Coet								Qty (Fact)		al Cost		Qty	Total		Qt			al Cost	Qty		Total Cos	st	Qty		Tota	al Cost	Qt			I Cost
	ior Yea									(Each)	0	\$ <i>M</i> ) 0.000	<u> </u>	Each) 0	(\$ 1	0.000	(Ea	<i>cn)</i> 0		0.000	(Eacl	0	(\$ M ) 0.0	000	(Each	0	(3	0.000	(Eac	cn) 25		0.00
FY 20											0	0.000		0		0.000		0		0.000		0		000		0		0.000		0		0.00
FY 20											0	0.000		0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20										-	0	0.000		0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20	)14									-	0	0.000		0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00
FY 20	)15										0	0.000		0		0.000		0		0.000		0	0.0	000		0		0.000		0		0.00

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA6605 - AH-64 MODS

Modification Nomenclature

(Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability
Improvements and Resolve Obsolescence Issues

Related RDT&E PEs:

Installation: Apache Training Aids, Devices, Simulators & Sim	ul <b>Me</b> t	hod of Imple	ementation:	١.			Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)						
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	25	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Airframe	Me	thod of Impl	ementation	: Modification	ns		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AA6605 - AH-64 MODS

Army

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Airframe Method of Implementation: Modifications Installation Name: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) All Prior Years 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2011 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 18 0.000 0.000 0 0.000 0 0.000 18 0.000 FY 2013 0 FY 2014 0.000 0.000 25 0.000 0.000 0.000 25 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 4 1 4 1 2 3 4 1 2 4 1 2 4 1 2 4 1 2 3 4 TC Tot In 0 Out Method of Implementation: Modification Installation: Armament Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qty Total Cost Installation Cost (Each) (\$ M) All Prior Years 0.000 0.000 0.000 0.000 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2011 0 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000 FY 2016 0.000 0.000 0.000 0.000 0 0.000 0 0.000

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Exhibit P-3A, Individual Modification:	PB 2013	Army													D	ate	Febi	uary	2012				
Appropriation / Budget Activity / Budg 2031A / BA 2 / BSA 10	et Sub A	Activity:					lomend MODS		ıre:						(/	Mod	ificati	on Ti	omeno tle, Mo tions -	dific	ation	Num	ber):
Models of Systems Affected: Longbow	Apache						eration olve O					3	Rel	ated	RDT&I	E PE	s:						
Installation: Armament			/lethod	of Impl	ement	ation:	Modifica	ation					Insta	llatio	n Name:								
		Pri	or Year	s		FY 2	2011			FY 2	012		FY 2	013 B	Base		FY 20	013 O	co		FY 20	13 Tot	al
Installation Cost		Qty (Each)		al Cost	Qt (Ea		Total Co		Qty (Each		Total C		Qty (Each)	Т	otal Cost		Qty (Each)		tal Cost	(E	Qty ach)		I Cost
FY 2017			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
To Complete				-		-		-		-		-		-	-		-		-		-		-
Total			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
		F	Y 2014			FY 2	2015			FY 2	016		F	Y 201	7		То С	omple	te		T	otal	
Installation Cost		Qty (Each)		al Cost \$ M )	Qt (Ea		Total Co	st	<b>Qty</b> (Each		Total C		Qty (Each)	Т	otal Cost (\$ M)		<b>Qty</b> (Each)		tal Cost	(E	Qty ach)		I Cost
All Prior Years			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
FY 2011			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
FY 2012			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
FY 2013			0	0.000		0	0.	.000		0		0.000		0	0.000	)		0	0.000		(	0	0.000
FY 2014			0	0.000		298	0.	.000		0		0.000		0	0.000	)		0	0.000		298	8	0.000
FY 2015			0	0.000		0	0.	.000		57		0.000		0	0.000	)		0	0.000		57	7	0.000
FY 2016			0	0.000		0	0.	.000		0		0.000		46	0.000	)		0	0.000		146	6	0.000
FY 2017			0	0.000		0	0.	.000		0		0.000		0	0.000	)	15	54	0.000		154	4	0.000
To Complete				-		-		-		-		-		-	-		-		-		-		-
Total			0	0.000		298	0.	.000		57		0.000		46	0.000	)	15	54	0.000		655	5	0.000
Installation Schedule  FY 2011  F	2012		FY 2	2012			FY 201	14			EV 1	2015			FY 20	16			FY 20	17			
APY 1 2 3 4 1 2	3	4 1	2	3	4	1		3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In - 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	-	-
Out - 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	0	0
Installation: Mission Command			/lethod	of Impl	ement	ation:							Insta	llatio	n Name:								
			or Year			FY 2				FY 2	012			013 B			FY 20	013 O	00		FY 20	13 Tot	al
				al Cost	Qı		Total Co	et	Qty		Total C	net	Qty		otal Cost	+	Qty	_	al Cost		Qty		l Cost
Installation Cost		Qty (Each)		\$ M )	(Ea		(\$ M)	3	(Each		(\$ M		(Each)	'	(\$ M )		(Each)		(\$ M )		ach)		(M)

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P-1 Line #22

Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army P-1 Line Item Nomenclature:

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

AA6605 - AH-64 MODS

**Modification Nomenclature** (Modification Title, Modification Number):

AH-64 Modifications - 0000

Models of Systems Affected: Longbow Apache Related RDT&E PEs: Type Modification: Operational & Reliability

Improvements and Resolve Obsolescence Issues

Installation: Mission Command	M	ethod of Impl	ementation:	•			Installa	tion Name:				
	Prio	r Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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)
FY 2011		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	-	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues Installation: Mission Command Method of Implementation: . Installation Name: Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016** FY 2017 **APY** 1 2 4 2 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 4 2 3 4 TC 1 3 3 1 Tot In 0 Out 0 0 0 0 0 0 Method of Implementation: Modifications Installation: Sensors Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty **Total Cost Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Installation Cost (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (Each) 0.000 0.000 0.000 0.000 0 0.000 0.000 All Prior Years 0 FY 2011 0.000 0.000 0.000 0.000 0.000 0 0 0 0 0.000 0 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 FY 2013 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2014 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	То	tal
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 )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	40	0.000	98	0.000	0	0.000	0	0.000	0	0.000	138	0.000
FY 2014	0	0.000	198	0.000	66	0.000	0	0.000	0	0.000	264	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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LI AA6605 - AH-64 MODS Army

FY 2016

FY 2017

Total

To Complete

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P-1 Line #22

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Related RDT&E PEs: Type Modification: Operational & Reliability

Improvements and Resolve Obsolescence Issues

Installation: Sensors	Met	hod of Imple	ementation:	Modification	s		Installa	tion Name:				
	FY 2	2014	FY 2	015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	40	0.000	296	0.000	66	0.000	0	0.000	0	0.000	402	0.000

#### Installation Schedule

			FY	2011				FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	APY	1	2	3	4	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	-	0	(	ס	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
Out	-	0	(	וכ	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

Installation: Support Elements	Me	thod of Impl	ementation	١.			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AA6605 - AH-64 MODS Army Page 42 of 44

UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA6605 - AH-64 MODS (Modification Title, Modification Number): AH-64 Modifications - 0000 Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability Related RDT&E PEs: Improvements and Resolve Obsolescence Issues **Installation:** Support Elements Method of Implementation: . Installation Name: FY 2015 FY 2016 FY 2017 FY 2014 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years FY 2011 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 FY 2014 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 4 1 4 1 2 3 4 1 2 4 1 2 4 1 2 4 1 2 3 4 TC Tot In 0 Out Installation: Training Systems Method of Implementation: Modification Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qtv Total Cost Installation Cost (Each) (\$ M) All Prior Years 0.000 0.000 0.000 0.000 0.000 0.000 0 0.000 0.000 0.000 0.000 0.000 0 0.000 FY 2011 0 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000 FY 2016 0.000 0.000 0.000 0.000 0 0.000 0 0.000

LI AA6605 - AH-64 MODS Army

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														UNU	LAS	OOIL	IED													
xhib	it P-	3A, I	ndivi	dual	Modi	fication	on: P	B 20	13 Arı	my													Dat	e: Febi	ruary	2012				
• •	•		/ <b>Buo</b> BSA	_	Activi	ty / B	udge	t Sul	b Act	ivity:		<b>P-1</b> L	_		-		ure:						(Mo	dificati	on Ti	lomend itle, Mo itions -	dificati		'umb	oer):
ode	ls of	Sys	tems	Affe	cted:	Longl	bow A	Apach	ne			<b>Modifi</b> vemen									Relat	ed RDT	&E F	PEs:						
stalla	ition:	Traini	ng Sys	tems						N	/letho	d of Imp	lemen	tation	: Modifi	cation					Install	ation Nar	ne:							
										Pric	or Yea	ars		FY 2	2011			FY 20	012		FY 20	13 Base		FY 20	013 O	co	FY	2013	Tota	ıl
stalla	ition (	Cost								Qty (Each)	To	otal Cost (\$ M )		<b>Qty</b> ach)	Total (		Qty (Eac		Total Co (\$ M)		Qty (Each)	Total Co		Qty (Each)		otal Cost (\$ M )	Qty (Each	)	Total (\$ /	Cost M)
2017	7										0	0.000		0		0.000		0	0.	.000		0	.000		0	0.000		0		0.00
Com	nplete										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
tal											0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
										F`	Y 201	4		FY 2	2015			FY 20	016		FY	2017		To C	omple	ete		Tota	al	
stalla	ition (	Cost								Qty (Each)	T	otal Cost (\$ M)		Qty ach)	Total (		Qty (Eac		Total Co		Qty (Each)	Total Co	st	Qty (Each)		otal Cost (\$ M )	Qty (Each	)	Total (\$ /	Cost
Prior	r Year	s									0	0.000	· ·	0		0.000		0	0.	.000	(	0 0	.000		0	0.000	,	0		0.00
201 <sup>2</sup>	1										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
2012	2										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
2013	3										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
2014	4										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
201	5										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
/ 2016	6										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
2017	7										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
Com	nplete										0	0.000		0		0.000		0	0.	.000	(	0	.000		0	0.000		0		0.00
tal											0	0.000		0		0.000		0	0.	.000		0	.000		0	0.000		0		0.00
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	APY	1	FY 2	2011	4	1	FY 2	2012	4	1	FY 2	2013	4	1	FY 2	014 3	4	1	FY 20	3	4	1 2	2016	4	1	FY 20		4 .	тс	T-4
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LI AA6605 - AH-64 MODS Army UNCLASSIFIED
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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents: 02037	44A	
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)	,		

(The folio	wing Resource	Summary rows	are for informa	tionai purposes	s only. The corre	esponaing buag	et requests are	aocumentea ei	sewnere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The major modifications are Engine Improvement to include 1553 Data Bus Integration, Maintenance Training Devices, Transformation Sets, Kits and Outfits, M24A1 Window/Door Gun Mount, Adjustable Pitch Change Link, Crashworthy Seats, Hook Load Measurement System, Cargo On/Off Loading System, Aircraft Component Parts-Marking, Ballistic Protection Systems, Rotor Blades, and Performance Enhancements to equip new Chinook units forming under the Army's Aviation Transformation Plan.

Item Sche	edule		P	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	ase	FY	2013 O	CO	FY	2013 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
CH-47 Cargo Helicopter Mods - 0000	P3A		-	-	5,525.177	-	-	139.902	-	-	57.012	-	-	39.135	-	-	-	-	-	39.135
Total Gross/Weapon System Cost					5,525.177			139.902			57.012			39.135			-			39.135
				FY 2014			FY 2015			FY 2016			FY 2017		То	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
CH-47 Cargo Helicopter Mods - 0000	P3A		-	-	172.744	-	-	62.016	-	-	85.602	-	-	486.931	-	-	-	-	-	-

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								UNC	CLASS	SIFIED	)									
Exhibit P-40, Bud	get Item Ju	stific	cation	Sheet:	PB 201	3 Army									Date	: Febr	uary 201	2		
<b>Appropriation / B</b> 2031A : Aircraft Pro Modification Of Air	udget Activ	ity /	Budge	t Sub A	Activity	:	aft / BS	A 10 :			Item No - CH-47			ter Mod	s (MYP)	ı	-			
ID Code (A=Service Ready,	B=Not Service Rea	idy) :				Program	Element	ts for Cod	e B Items	s:			Oth	er Relate	d Progran	n Eleme	nts: 0203	744A		
				FY 2014			FY 2015	5		FY 2016			FY 2017	7	To	Compl	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	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 (\$ M)	Unit Cost	Qty (Each)	Total Cost
Total Gross/Weapon System Cost					172.744			62.016			85.602			486.931			-			-

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

Exhibit P-3A, Individual Modification: P	B 2013 Arn	ny							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budget 2031A / BA 2 / BSA 10	et Sub Acti	vity:		<b>tem Nome</b> CH-47 Car		ter Mods (l	MYP)		١,	ion Title, M	nclature lodification pter Mods -	,
Models of Systems Affected: CH-47		Type I	Modification	n: Unclass	sified		Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,525.177	139.902	57.012	39.135	-	39.135	172.744	62.016	85.602	486.931	Continuing	Continuing
(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			

### Description:

Initial Spares (\$ in Millions)

Gross/Weapon System Unit Cost (\$ in Thousands)

The major modifications are Engine Improvement to include 1553 Data Bus Integration, Maintenance Training Devices, Transformation Sets, Kits and Outfits, M24A1 Window/Door Gun Mount, Adjustable Pitch Change Link, Crashworthy Seats, Hook Load Measurement System, Cargo On/Off Loading System, Aircraft Component Parts-Marking, Ballistic Protection Systems, Rotor Blades, and Performance Enhancements to equip new Chinook units forming under the Army's Aviation Transformation Plan.

**UNCLASSIFIED** 

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

								CH-47	Cargo H	elicopter	Mods - 0	0000
Models of Systems Affected: CH-47	Type Modifica	ation: Unc	classified			Rel	lated RI	OT&E PEs	):			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	I3 Base	FY 201	3 ОСО	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Co								
Procurement				'					,	,		
Engine Filtration System <sup>(1)</sup>												
A Kits												
Recurring												
B-Kit Quantity	103	33.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
A-Kits	337	3.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Logistics	0	3.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
PM Support	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		42.100		0.000		0.000		0.000		0.000		0.
Total, Engine Filtration System	440	42.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Engine Improvement <sup>(2)</sup>				'					,	,		
A Kits												_
Recurring												_
New Engines	1,250	2,495.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
T55 Engine Control Unit Prog (ECU)	427	29.500	240	15.500	0	0.200	0	0.000	0	0.000	0	0.0
P3 Check Valve	373	4.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.
Digital ECU Remote Readout	0	0.000	23	0.700	0	0.000	0	0.000	0	0.000	0	0.0
Next Generation Torque System	260	9.100	144	5.400	132	4.826	0	0.000	0	0.000	0	0.0
Logistics	0	39.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
ECU Test Stand	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
ECU Test Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
1553 Software Upgrade	0	0.000	0	0.000	0	0.700	0	0.000	0	0.000	0	0.0
RIMFIRE	0	0.000	0	0.000	0	0.000	0	0.400	0	0.000	0	0.4
Digital Maint Panel Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
PM Admin Support	0	2.800	0	1.400	0	0.800	0	0.021	0	0.000	0	0.0
Subtotal Recurring		2,581.200		23.000		6.526		0.421		0.000		0.
NonRecurring												
Next Generation Torque System Test Set	0	0.000	0	0.000	0	2.000	0	0.000	0	0.000	0	0.0

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

inodels of Systems Affected. Of 1-47	rype mounication. Officiassified Related RD (& FES.											
Financial Plan	Prior	Prior Years			FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost
Subtotal NonRecurring		0.000		0.000		2.000		0.000		0.000		0.00
Total, Engine Improvement	2,310	2,581.200	407	23.000	132	8.526	0	0.421	0	0.000	0	0.42
Maintenance Training Devices (MTD) (3)												
A Kits												
Recurring												
MTD Upgrades	11	20.800	3	5.400	4	4.700	0	0.000	0	0.000	0	0.00
Engineering Support	0	9.500	0	1.300	0	1.400	0	0.000	0	0.000	0	0.000
Logistics	0	0.900	0	0.300	0	0.300	0	0.000	0	0.000	0	0.00
Subtotal Recurring		31.200		7.000		6.400		0.000		0.000		0.000
Total, Maintenance Training Devices (MTD)	11	31.200	3	7.000	4	6.400	0	0.000	0	0.000	0	0.00
Transformation Sets, Kits and Outfits (4)												
A Kits												
Recurring												
SKOs	25	64.600	4	12.300	3	9.000	0	1.000	0	0.000	0	1.000
Subtotal Recurring		64.600		12.300		9.000		1.000		0.000		1.000
Total, Transformation Sets, Kits and Outfits	25	64.600	4	12.300	3	9.000	0	1.000	0	0.000	0	1.000
M24A1 Window/Door Gun Mount <sup>(5)</sup>												
A Kits												
Recurring												
Door Gunner Mount B Kits	540	14.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
M240 Window/Door Gun Mount Mod 1	0	0.000	0	0.000	650	11.895	0	0.000	0	0.000	0	0.00
PM Support	0	0.200	0	0.000	0	0.595	0	0.000	0	0.000	0	0.00
Subtotal Recurring		14.300		0.000		12.490		0.000		0.000		0.000
Total, M24A1 Window/Door Gun Mount	540	14.300	0	0.000	650	12.490	0	0.000	0	0.000	0	0.000
Adjustable Pitch Change Link <sup>(6)</sup>		,				,				,		
A Kits												
Recurring												
Boot & Link Assemblies	44	3.300	21	1.600	0	0.000	0	0.000	0	0.000	0	0.000

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

Models of Systems Affected: CH-4/ Financial Plan	Type Modifica	Type Modification: Unclassified Related RDT&E PES:										
	Prior	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		13 Total
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		3.300		1.600		0.000		0.000		0.000		0.00
NonRecurring						,						
Tools and Facilitation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Adjustable Pitch Change Link	44	3.300	21	1.600	0	0.000	0	0.000	0	0.000	0	0.00
Crashworthy Pilot Seats <sup>(7)</sup>												
A Kits												
Recurring												
Crashworthy Seats Pilot CoPilot	0	0.000	0	0.000	0	2.281	0	0.000	0	0.000	0	0.00
PM Support	0	0.000	0	0.000	0	0.214	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		2.495		0.000		0.000		0.00
Total, Crashworthy Pilot Seats	0	0.000	0	0.000	0	2.495	0	0.000	0	0.000	0	0.00
AVCATT (8)												
A Kits		_										
Recurring												
AVCATT Upgrades	17	7.100	0	10.585	0	0.000	0	0.000	0	0.000	0	0.00
Engineering Support	0	2.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Logistics	0	0.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		9.900		10.585		0.000		0.000		0.000		0.00
Total, AVCATT	17	9.900	0	10.585	0	0.000	0	0.000	0	0.000	0	0.00
CH-47 MISC Mods \$5M or Less <sup>(9)</sup>												
A Kits												
Recurring												
Algorithm Development	0	0.000	0	0.000	0	4.500	0	0.000	0	0.000	0	0.00
VSWR	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Aircraft Continuity Test Set (ACTS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Thermal Image Gun	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

	Prior	Years	FY	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Co								
Misc Mods for Millville	0	0.000	0	0.000	0	1.750	0	0.000	0	0.000	0	0.
Combining Transmission Fan Drive Shaft	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.
Swashplate Assembly	0	0.000	0	0.000	0	3.509	0	0.000	0	0.000	0	0.
EPUSHA	0	7.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0
Crashworthy Seats	0	12.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0
Adjustable Pitch Change Link	174	5.100	0	0.000	0	0.000	0	0.000	0	0.000	0	С
Aft Pylon Workplatform	0	13.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0
Swashplate Bearing	0	1.500	0	0.000	0	0.000	0	0.000	0	0.000	0	С
Hook Load Measuring System	0	1.000	0	0.000	0	0.700	0	0.000	0	0.000	0	C
Parts Interchangeability/Obsolescense	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000	0	(
Halon Replacement	250	7.500	0	0.000	0	0.000	0	0.000	0	0.000	0	
Night Vision Goggle Internal Lighting	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	
EAPS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	
Weapon Sys Spec Data Collection	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	
Frangible Fuel Fitting	0	0.000	0	0.000	0	4.000	0	0.000	0	0.000	0	
PM Support	0	0.600	0	0.300	0	0.726	0	0.000	0	0.000	0	
Subtotal Recurring		49.900		0.300		15.185		0.000		0.000		
Total, CH-47 MISC Mods \$5M or Less	424	49.900	0	0.300	0	15.185	0	0.000	0	0.000	0	
Cargo On/Off Loading System (COOLS) and COOLS BPS (10)						,		,		,		
A Kits												
Recurring												
Ballistic Protection System (BPS)	74	10.700	0	0.000	0	0.000	52	12.117	0	0.000	52	1:
PM Support	0	0.400	0	0.207	0	0.000	0	1.253	0	0.000	0	
Cargo Handling Floor System (BASE)	0	29.700	0	3.400	0	0.000	52	11.016	0	0.000	52	1
Cargo Handling Floor System (OCO)	0	0.000	0	29.300	0	0.000	0	0.000	0	0.000	0	
PM Support (OCO)	0	0.000	0	8.010	0	0.000	0	0.000	0	0.000	0	
Subtotal Recurring		40.800		40.917		0.000		24.386		0.000		2
Total, Cargo On/Off Loading System (COOLS) and COOLS BPS	74	40.800	0	40.917	0	0.000	104	24.386	0	0.000	104	24

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

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

										lelicopter	Moas - C	0000
Models of Systems Affected: CH-47	Type Modification	ation: Und	classified	l		Re	lated RD	T&E PEs	:			
	Prior	Years	FY:	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Aircraft Component Parts-Marking <sup>(11)</sup>												
A Kits		_										
Recurring												
Component Markings	0	21.000	0	0.000	0	0.000	0	1.300	0	0.000	0	1.3
Subtotal Recurring		21.000		0.000		0.000		1.300		0.000		1.3
Total, Aircraft Component Parts-Marking	0	21.000	0	0.000	0	0.000	0	1.300	0	0.000	0	1.30
New Equipment Training (NET) <sup>(12)</sup>												,
A Kits												
Recurring												
NET Operations	0	6.100	0	7.800	0	0.000	0	0.000	0	0.000	0	0.00
Interim Contractor Support	0	0.000	0	23.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		6.100		30.800		0.000		0.000		0.000		0.0
Total, New Equipment Training (NET)	0	6.100	0	30.800	0	0.000	0	0.000	0	0.000	0	0.00
Improved Rotor Blades <sup>(13)</sup>												,
A Kits												
Recurring												
Rotor Blades Shipsets	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
PM Admin Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.0
Total, Improved Rotor Blades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Special Operations Aircraft Commonality <sup>(14)</sup>												
A Kits												
Recurring												
Equipment	0	0.000	1	8.900	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		0.000		8.900		0.000		0.000		0.000		0.0
Total, Special Operations Aircraft Commonality	0	0.000	1	8.900	0	0.000	0	0.000	0	0.000	0	0.0
Transmission and Torque Management <sup>(15)</sup>		·										
A Kits												

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: **Prior Years** FY 2011 FY 2012 **FY 2013 Base** FY 2013 OCO FY 2013 Total **Total Cost** Total Cost Total Cost Total Cost Total Cost **Total Cost** Qty Qty Qty Qtv **Financial Plan** (Each) (\$ M) Recurring Advanced Rotor Torque Management 0 0.000 0 0.000 0 0.000 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 **Advanced Chinook Transmissions** 0.000 0.000 0 0.000 0.000 0.000 0.000 PM Support 0.000 0.000 0.000 0.000 0.000 0.000 Subtotal Recurring Total, Transmission and Torque Management 0.000 0.000 0.000 0.000 0.000 0.000 Airframe Optimization and Payload Improvements (16) A Kits Recurring 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Electrical System Upgrade **Fuel Tank Consumption** 0 0.000 0.000 0 0.000 0.000 0.000 0 0.000 Composit Synch Shafts 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Jam Resistant Hydraulic Actuators 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 0.000 0.000 0 0.000 0.000 0.000 0.000 PM Support Subtotal Recurring 0.000 0.000 0.000 0.000 0.000 0.000 Total, Airframe Optimization and Payload Improvements 0 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 Improved Vibration Control System (17) A Kits Recurring 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 **Engineering Support** 0.000 0.000 0 0.000 0.000 0 0.000 0 Kits 0 0.000 0 0.000 0.000 0 0.000 0.000 0.000 0.000 PM Support 0.000 Subtotal Recurring 0.000 0.000 0.000 0.000 0.000 Total, Improved Vibration Control System 0.000 0.000 0.000 0.000 0.000 0.000 Cargo Platform Health Environment (18) A Kits Recurring 0 0.000 0.000 0 0.000 10.100 0 0.000 0 10.100 Integration

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

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

	1760			-								
	Prior	Years	FY 2	2011	FY 2	2012	FY 20 <sup>-</sup>	13 Base	FY 201	13 OCO	FY 201	3 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
Subtotal Recurring		0.000		0.000		0.000		10.100		0.000		10.10
Total, Cargo Platform Health Environment	0	0.000	0	0.000	0	0.000	O	10.100	0	0.000	0	10.10
Degraded Visual Environment (MOD 21) (19)												
A Kits												
Recurring												
Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
PM Support	0	2,653.877	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		2,653.877		0.000		0.000		0.000		0.000		0.00
Total, Degraded Visual Environment (MOD 21)	0	2,653.877	0	0.000	0	0.000	C	0.000	0	0.000	0	0.00
Total, All Modifications		5,518.277		135.402		54.096		37.207		0.000		37.20
Procurement Cost (Procurement + Support)		5,518.277		135.402		54.096		37.207		0.000		37.20
Total Installation Cost		6.900		4.500		2.916		1.928		0.000		1.92
Total Cost (Procurement + Support + Installation)		5,525.177		139.902		57.012		39.135		0.000		39.13

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Procurement												
Engine Filtration System <sup>(1)</sup>												
A Kits												
Recurring												
B-Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	103	33.400
A-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	337	3.800
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.100
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.800
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		42.100
Total, Engine Filtration System	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	440	42.100
Engine Improvement (2)												
A Kits												

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

nodels of Systems Affected. Of 1-47	Type Mounic	ation. One	Jassilieu			110	iatea itt	I OL FL	· .			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Recurring		-										
New Engines	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,250	2,495.0
T55 Engine Control Unit Prog (ECU)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	667	45.20
P3 Check Valve	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	373	4.90
Digital ECU Remote Readout	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	0.70
Next Generation Torque System	149	5.734	107	4.214	74	2.894	200	4.215	569	23.267	1,635	59.6
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	39.90
ECU Test Stand	0	0.431	0	0.000	0	0.446	0	0.000	0	0.461	0	1.33
ECU Test Kit	0	0.200	0	0.000	0	0.220	0	0.000	0	0.000	0	0.4
1553 Software Upgrade	0	0.706	0	0.000	0	0.780	0	0.000	0	0.000	0	2.1
RIMFIRE	0	0.592	0	0.603	0	0.613	0	0.623	0	5.634	0	8.46
Digital Maint Panel Upgrade	75	6.665	32	2.892	10	0.919	80	7.478	496	47.881	693	65.8
PM Admin Support	0	0.706	0	0.401	0	0.283	0	0.803	0	3.862	0	11.0
Subtotal Recurring		15.034		8.110		6.155		13.119		81.105		2,734.6
NonRecurring												
Next Generation Torque System Test Set	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.00
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		2.00
Total, Engine Improvement	224	15.034	139	8.110	84	6.155	280	13.119	1,065	81.105	4,641	2,736.6
Maintenance Training Devices (MTD) (3)												
A Kits												
Recurring												
MTD Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	18	30.9
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.2
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.5
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		44.60
Total, Maintenance Training Devices (MTD)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	18	44.6
Transformation Sets, Kits and Outfits (4)												
A Kits												

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

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2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

Models of Systems Affected: CH-47	туре моантс	ation: One	ciassified	l		Re	iated RL	JIGE PES	5.			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
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 Cos
Recurring				'		'						
SKOs	(	2.796	0	0.000	0	0.000	0	0.000	0	0.000	32	89.69
Subtotal Recurring		2.796		0.000		0.000		0.000		0.000		89.69
Total, Transformation Sets, Kits and Outfits		2.796	0	0.000	0	0.000	0	0.000	0	0.000	32	89.69
M24A1 Window/Door Gun Mount (5)												
A Kits												
Recurring												
Door Gunner Mount B Kits	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	540	14.10
M240 Window/Door Gun Mount Mod 1	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	650	11.89
PM Support	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.79
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		26.79
Total, M24A1 Window/Door Gun Mount		0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,190	26.79
Adjustable Pitch Change Link <sup>(6)</sup>												
A Kits												
Recurring												
Boot & Link Assemblies	6	4.654	30	2.366	100	8.022	113	9.218	131	10.887	499	40.04
PM Support	(	0.484	0	0.118	0	0.401	0	0.461	0	0.544	0	2.00
Subtotal Recurring		5.138		2.484		8.423		9.679		11.431		42.05
NonRecurring								,		,		
Tools and Facilitation	(	5.028	0	0.000	0	0.000	0	0.000	0	0.000	0	5.02
Subtotal NonRecurring		5.028		0.000		0.000		0.000		0.000		5.02
Total, Adjustable Pitch Change Link	6	10.166	30	2.484	100	8.423	113	9.679	131	11.431	499	47.08
Crashworthy Pilot Seats (7)												
A Kits												
Recurring												
Crashworthy Seats Pilot CoPilot	100	5.171	120	4.382	100	4.456	100	10.877	790	36.844	1,210	64.01
PM Support		0.259	0	0.338	0	0.239	0	0.560	0	2.015	0	3.62
Subtotal Recurring		5.430		4.720		4.695		11.437		38.859		67.63

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

Modification Nomenclature

Date: February 2012

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Total, Crashworthy Pilot Seats	100	5.430	120	4.720	100	4.695	100	11.437	790	38.859	1,210	67.6
AVCATT (8)												
A Kits												
Recurring												
AVCATT Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	17.68
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.60
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.20
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		20.48
Total, AVCATT	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	20.48
CH-47 MISC Mods \$5M or Less (9)												,
A Kits						1				1		
Recurring						,				,		
Algorithm Development	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.50
VSWR	0	4.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.00
Aircraft Continuity Test Set (ACTS)	0	4.200	0	0.000	0	0.000	0	0.000	0	0.000	0	4.20
Thermal Image Gun	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.00
Misc Mods for Millville	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.75
Combining Transmission Fan Drive Shaft	0	1.400	0	0.000	0	0.000	0	0.000	0	0.000	0	1.40
Swashplate Assembly	0	3.300	0	0.000	0	0.000	0	0.000	0	0.000	0	6.80
EPUSHA	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.60
Crashworthy Seats	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.30
Adjustable Pitch Change Link	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	174	5.10
Aft Pylon Workplatform	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.10
Swashplate Bearing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.50
Hook Load Measuring System	0	0.000	0	0.000	0	0.000	0	4.000	0	38.200	0	43.90
Parts Interchangeability/Obsolescense	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.20
Halon Replacement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	250	7.50
Night Vision Goggle Internal Lighting	0	0.000	0	0.000	0	0.000	0	2.600	0	21.000	0	23.60

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

Date: February 2012

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Total Cost **Total Cost** Total Cost Total Cost Total Cost **Total Cost** Qty Qty Qty **Financial Plan** (Each) (\$ M) (Fach) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) 1.400 1.300 0.800 0.500 0 6.600 10.600 **EAPS** 0 0 Weapon Sys Spec Data Collection 0 0.000 0 0.000 0 0.000 0.500 0 2.500 0 3.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 4.000 Frangible Fuel Fitting 0.814 0.065 0.040 0.380 3.415 6.340 PM Support 17.114 1.365 0.840 7.980 71.715 164.399 Subtotal Recurring Total. CH-47 MISC Mods \$5M or Less 17.114 1.365 0.840 7.980 71.715 424 164.399 Cargo On/Off Loading System (COOLS) and COOLS BPS (10) A Kits Recurring 47 11.138 0 0.000 0 0.000 0 0.000 0 0.000 173 33.955 Ballistic Protection System (BPS) PM Support 0 0.776 0.789 0 0.800 0.634 0.000 4.859 Cargo Handling Floor System (BASE) 72 15.512 72 15.776 56 16.043 0 12.690 0 0.000 252 104,137 Cargo Handling Floor System (OCO) 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0 29.300 0.000 0.000 0.000 0.000 0.000 PM Support (OCO) 0 8.010 Subtotal Recurring 27.426 16.565 16.843 13.324 0.000 180.261 Total, Cargo On/Off Loading System (COOLS) and COOLS BPS 119 27.426 72 16.565 56 16.843 13.324 0.000 425 180.261 Aircraft Component Parts-Marking (11) A Kits Recurring 2.900 1.400 0 1.500 3.200 3.200 0 34.500 Component Markings 2.900 1.400 1.500 3.200 3.200 34.500 Subtotal Recurring 0 2.900 1.400 0 1.500 0 3.200 3.200 34.500 Total, Aircraft Component Parts-Marking New Equipment Training (NET) (12) A Kits Recurring 0.000 0.000 0.000 0.000 0 0 0.000 13.900 **NET Operations** 

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Interim Contractor Support

Subtotal Recurring

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0.000

0.000

0.000

0.000

P-1 Line #23

0.000

0.000

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0.000

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36.900

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Exhibit P-3A, Individual Modification: PB 2013 Army

Modification Nomenclature

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

P-1 Line Item Nomenclature:

(Modification Title, Modification Number):

CH-47 Cargo Helicopter Mods - 0000

Models of Systems Affected: CH-47	ype Modification: Unclassified	Related RDT&E PEs:
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Models of Systems Affected. Of 1-47	Type Modifica	ation. One	Jassilie	ı		1/6	ialeu ix	TIQL FL	<b>)</b> .			
	FY	2014	FY:	2015	FY:	2016	FY 2	2017	To Co	nplete	То	tal
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 Cos (\$ M)
Total, New Equipment Training (NET)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	36.90
Improved Rotor Blades (13)												
A Kits												
Recurring												
Rotor Blades Shipsets	0	0.000	0	0.000	56	18.834	727	247.039	2,901	1,003.002	3,684	1,268.87
PM Admin Support	0	0.000	0	0.000	0	0.942	0	12.320	0	50.150	0	63.41
Subtotal Recurring		0.000		0.000		19.776		259.359		1,053.152		1,332.28
Total, Improved Rotor Blades	0	0.000	0	0.000	56	19.776	727	259.359	2,901	1,053.152	3,684	1,332.28
Special Operations Aircraft Commonality (14)												
A Kits												
Recurring						,						
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	8.90
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		8.90
Total, Special Operations Aircraft Commonality	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	8.90
Transmission and Torque Management (15)												
A Kits		_										
Recurring		_										
Advanced Rotor Torque Management	0	0.000	0	0.000	0	0.000	0	40.500	0	19.100	0	59.60
Advanced Chinook Transmissions	0	0.000	0	0.000	0	0.000	0	16.405	0	9.200	0	25.60
PM Support	0	0.000	0	0.000	0	0.000	0	2.745	0	1.415	0	4.16
Subtotal Recurring		0.000		0.000		0.000		59.650		29.715		89.36
Total, Transmission and Torque Management	0	0.000	0	0.000	0	0.000	0	59.650	0	29.715	0	89.36
Airframe Optimization and Payload Improvements (16)												
A Kits												
Recurring												
Electrical System Upgrade	0	17.200	0	0.000	0	0.000	0	12.100	0	7.533	0	36.83
Fuel Tank Consumption	0	13.100	0	0.000	0	4.577	0	15.939	0	11.743	0	45.35
Composit Synch Shafts	0	10.800	0	0.000	0	0.000	0	11.500	0	8.500	0	30.80

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

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P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
Financial Plan	Qty (Each)	Total Cost										
Jam Resistant Hydraulic Actuators	0	13.600	0	0.000	0	0.000	0	15.580	0	6.800	0	35.980
PM Support	0	2.735	0	0.000	0	0.231	0	2.756	0	1.729	0	7.451
Subtotal Recurring		57.435		0.000		4.808		57.875		36.305		156.423
Total, Airframe Optimization and Payload Improvements	0	57.435	0	0.000	0	4.808	0	57.875	0	36.305	0	156.423
Improved Vibration Control System (17)												
A Kits												
Recurring												
Engineering Support	0	5.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.000
Kits	30	3.878	56	7.362	47	6.284	131	17.811	286	39.547	550	74.882
PM Support	0	0.444	0	0.427	0	0.426	0	0.986	0	2.907	0	5.190
Subtotal Recurring		9.322		7.789		6.710		18.797		42.454		85.072
Total, Improved Vibration Control System	30	9.322	56	7.789	47	6.710	131	18.797	286	42.454	550	85.072
Cargo Platform Health Environment (18)												
A Kits												
Recurring												
Integration	0	21.200	0	12.500	0	7.670	0	5.000	0	0.000	0	56.470
Subtotal Recurring		21.200		12.500		7.670		5.000		0.000		56.470
Total, Cargo Platform Health Environment	0	21.200	0	12.500	0	7.670	0	5.000	0	0.000	0	56.470
Degraded Visual Environment (MOD 21) (19)												
A Kits												
Recurring												
Kits	0	0.000	0	0.000	0	0.000	137	18.627	413	57.108	550	75.735
PM Support	0	0.000	0	0.000	0	0.000	0	0.931	0	3.660	0	2,658.468
Subtotal Recurring		0.000		0.000		0.000		19.558		60.768		2,734.203
Total, Degraded Visual Environment (MOD 21)	0	0.000	0	0.000	0	0.000	137	19.558	413	60.768	550	2,734.203
Total, All Modifications		168.823		54.933		77.420		478.978		1,428.704		7,953.840
Procurement Cost (Procurement + Support)		168.823		54.933		77.420		478.978		1,428.704		7,953.840
Total Installation Cost		3.921		7.083		8.182		7.953		45.577		88.960

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

models of Systems I models at the first	71											
	FY	FY 2014		FY 2015 FY 20		FY 2016		FY 2017		mplete	Total	
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)		172.744		62.016		85.602		486.931		1,474.281		8,042.800

#### Remarks:

(1) Type of Improvement - Improved Operational Capability. This funding provides an engine filtration system to separate sand and dust at the engine inlet to allow clean air to flow into the engine. For missions requiring extended operation at very low altitudes over sand and dust terrain, separation of sand and dust at engine inlet is a necessity to assure normal engine life for sustained operations. Procurement of this system is essential to assure operation in sandy or dusty regions. This effort is a follow-on to modify an existing engine filtration system design, modify existing kits and procure new kits. The fielding plan for A Kits was modified since initial procurement of A Kits due to the change in F Model rebuild utilizing new airframes versus modified which eliminated the need for these A Kits. The 40 remaining A Kits are being held at Sierra Army Depot to support GWOT.

(2) Type of Improvement: Improved Operational Capability, Improved reliability and lower Operational/Support Costs. T55-GA-714A engine improvements will increase reliability, increase engine time on wing and lower operational and support costs. The Next Generation Torque System will address torque errors associated with the current system. Torque accuracy of the current system is plus or minus 5.9 percent, and the new system is designed to meet plus or minus 2.3 percent. This will lower operational and support costs and increase torque kit reliability. In addition, the 1553 Electronic Control Unit (ECU) Software Upgrade will provide communication capability using the 1553 Data Bus hardware on the ECU. This software will also provide further enhancements to increase reliability and lower operational and support costs. The engine programs will also provide upgrades to the tools and ground support equipment needed for the T55-GA-714A engine upgrade program. Installation schedule varies.

(3) The Maintenance Training Devices (MTDs) to be upgraded include the Electrical Trainer, Hardware Maintenance Trainer, Automatic Flight Control System Classroom Trainer, Single Point Pressure Refueling Systems Trainer, Composite Maintenance Trainer, Landing Gear, Cargo Hook, Hydraulics Maintenance Trainers, and Flight Controls Trainers. Since almost all dynamic components will remain the same between the CH-47D and CH-47F models, many of these trainers will be required for CH-47F as it transitions.

(4) Type of Improvements - Improved Operational and Safety Capability. Sets, Kits and Outfits. This funding procures initial start-up tooling and equipment to facilitate unit reorganizations as part of the Army Aviation Transformation. Procurement of these kits are through requisition in the supply system.

(5) Type of Improvement: The M24A1 Window/Door Gun Mount will replace the legacy gun mount to improve operational capability. The current M240H machine gun is adapted to the legacy M24 mount by means of a mount and pintle assembly with a 200 round capacity ammunition can and a collection system. The M240H machine gun Operational Requirement Document (ORD) requires an increase in the number of rounds available for firing without the need to change ammunition cans. The current M24 gun mount will not support a 400 ammunition can nor provide the user requirement for egressibility/stowability without modification.

The M24A1 Gun Mount provides the user with increased field of fire (FOF), 400 rounds of ammo, and the ability to stow the weapon inside the aircraft for easy ingress/egress when on the ground. Mod 1 will adapt the gun mount with outboard articulation for emergency egress. These are user installed.

(6) The U.S. Army desires a newly designed and qualified Adjustable Pitch Change Link and weather protective boot assembly on the CH-47 aircraft. The new design is anticipated to significantly reduce field maintenance. Existing 114R3611 Pitch Change Links and boots have performed commendable service to the fleet. However, maintenance, adjustment or replacement of either the Pitch Change Link or weather protective boot is labor intensive. Newer manufacturing processes, materials, and technology suggest that a new Adjustable Pitch Change Link and boot assembly would better serve the maintainer and the fleet. The new link and boot will reduce field labor hours, provide ease of adjustment, and negate the need for a maintenance test flight after adjustment procedures are performed. A new Adjustable Pitch Change Link and boot will improve fleet performance. These are user installed.

(7) The current CH-47D/F co-pilot and pilot seats are hard mounted and do not offer crash protection to the pilots. In addition, the current seats have been configured with armor plating to provide ballistic protection to the crew during combat operations. An armor compensation modification has been applied to the seats; however, the weight of the ballistic protection renders the seats difficult to adjust. The Cargo Helicopters Project Manager desires to replace the existing pilot and co-pilot seats used on the CH-47D/F airframe. A crashworthy cockpit seat designed with current technology application would provide a significant improvement in pilot and co-pilot safety and comfort while completing missions.

(8) The Aviation Combined Arms Tactical Trainer (AVCATT) is a collective training virtual simulation system specifically designed to achieve and sustain unit proficiency and combat readiness and leader development training. System capabilities directly support "train as you fight" and allow commanders to tailor training to specific battle focused training requirements. Units will train as units, not as individuals

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Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0252 - CH-47 Cargo Helicopter Mods (N	Modification Nomenclature (Modification Title, Modification Number CH-47 Cargo Helicopter Mods - 0000
Models of Systems Affected: CH-47 Ty	pe Modification: Unclassified	Related RDT&E PEs:
or aircrews. Commanders and staff personnel will plan, command and or proficiency at the desired level of complexity. AVCATT will be a mobile, collective and combined arms training.		
(9)Mods include redesign of the Transmission Fan Drive Shaft to incorpce eliminating the bearing cage lifting failure mode and reduce cracking; Hothe cargo area; improved Engine Air Particle Separator to reduce missing qualification.	ook Load Measurement System to provide the crew with wei	ght information for external payloads; improved night vision goggle lightir
(10)The Cargo On/Off Loading (COOL) System with Ballistic Protection (mission diversity currently faced in Overseas Contingency Operations. T stopping to reconfigure the helicopter. The current system is a bolt on sy the aircraft all the time allowing for in-flight mission changes as needed a	The system would be integrated into the aircraft. This would a restem that is maintenance intensive to install and remove. The	allow for units to perform cargo missions and passenger missions withou ne cargo handling floor would allow a cargo handling system to be installe
(11)The CH-47 Cargo program will adopt an automatic information systemacross the fleet. This project will locate mobile partsmarking facilities to a	m (AIS). This will include automatic identification technology allow the Cargo Helicopter PMO to effectively manage the C	(AIT) which will provide error free documentation of aircraft and compon H-47 fleet.
(12)The CH-47 Program Management Office was scheduled to complete with New Equipment Training for fifth through thirteenth Unit Equipped. N		
(13)New Rotor Blades will provide significantly increased performance for pounds of lift thus enabling the CH-47 to carry more payload. Without the This translates to increased risk to the soldier by requiring them to spend Additionally, these new blades will eliminate two Safety of Flight restrictions.	nese new Rotor Blades, the CH-47 will not be able to carry a d more time in the air. New Rotor Blades will increase readi	s much load thus requiring more missions to accomplish the same objectives because the new blades will not require current blade inspections.
(14)This funding will cover the hardware costs and installation costs for the	he common items between the CH-47F and the MH-47G Sp	ecial Operations Aircraft. Installation schedule varies.
(15)This program will provide an advanced Transmission Driveline and T and Aft Rotor Head. Efficiencies can be gained by optimizing the split of flight control O&S costs, and improved handling qualities. Installation So	f the torque between rotor heads. Improvement will provide	and balanced drive train with improved power sharing between the Forw additional payload capability, improved Dynamic component lives, reduc

(17) The Improved Vibration Control System which will provide an active vibration suppression system will replace the Self Tuned Vibration Absorbers (STVAs) to minimize CH-47 aircraft vibrations, reduce aircraft weight by approx 100 lbs, provide improved vibration dampening for the entire aircraft, and reduce O&S costs and Soldier burden.

reduced parts count and aircraft weight savings reducing Soldier burden. Contract award and installation schedule is various.

(16) Airframe Optimization and Payload Improvements Optimize aircraft structure to reduce weight and improve reliability. Improved aircraft electrical system that provides increased power capacity, improved power distribution, and reduces O&S costs. Composite Synch Shafts will reduce weight and improve reliability through use of state of the art materials with lower O&S costs. Hydraulic system upgrade that improves reliability, survivability, and safety provided by incorporating state of the art technology and design standards, including iam resistance. Fuel System improvement that increases reliability through

(18) The Cargo Platform Health Environment is the integration of the CH-47 Condition Based Maintenance solution into the fleet. The purpose of this project is to provide a Digital Source Collector (DSC) on the CH-47F within the Avionics Systems LAN that already exists onboard the aircraft. This design will monitor the performance parameters of selected aircraft subsystems. The DSC evaluates these parameters and presents fault conditions to the maintainers and/or aircrew for action.

(19) Degraded Visual Environment - System to improve the aircrews' ability to operate in sand, dust, and obscurant conditions. System will provide visual cue of intended touchdown point, show topography and location and size of obstacles, provide cues to reduce aircraft drift, and fuse other sensor information into the pilot vehicle interface. This system will improve aircraft safety and provide improved operational capability. Delivery and installation schedule TBD.

Manufacturer Information: Engine Filtration System	
Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 1

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Date: February 2012

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Exhibit P-3A. Indivi	idual Modification: PE	3 2013 Armv				Date: February 2012	
<u> </u>	dget Activity / Budget	<b>-</b>	<b>P-1 Line Item No</b> AA0252 - CH-47	menclature: Cargo Helicopter Mods (N	/IYP)	Modification Nome (Modification Title, M CH-47 Cargo Helicop	nclature lodification Number)
Models of Systems	Affected: CH-47	Тур	e Modification: Unc	assified	Related R	DT&E PEs:	
Manufacturer Information	on: Engine Filtration Syste	m			·		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates		Jan 2012					
Delivery Dates		Feb 2012					
Manufacturer Information	on: Engine Improvement						
Manufacturer Name: Hon	eywell Inc			Manufacturer Location: Pho	oenix, AZ		
Administrative Leadtime (	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Maintenance Training D	Pevices (MTD)		<u> </u>			
Manufacturer Name: TBD	)			Manufacturer Location: TB	D		
Administrative Leadtime	(in Months): 3			Production Leadtime (in Mo	onths): 12		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Jan 2010	Jan 2011	Jan 2012				
Delivery Dates	Jan 2011	Jan 2012	Jan 2013				
Manufacturer Information	on: Transformation Sets, K	its and Outfits		<u> </u>			
Manufacturer Name: TBD	)			Manufacturer Location: TB	D		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: M24A1 Window/Door G	un Mount		<u> </u>			
Manufacturer Name: TBD	)			Manufacturer Location: TB	D		
Administrative Leadtime	(in Months): 6			Production Leadtime (in Mo	onths): 5		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates		Dec 2011		Dec 2013			
Delivery Dates		May 2012		May 2014			
Manufacturer Information	on: Adjustable Pitch Chang	je Link		-			
Manufacturer Name: Boe	ing			Manufacturer Location: Rid	lley Park, PA		
Administrative Leadtime	(in Months): 6			Production Leadtime (in Mo	onths): 4		

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Models of Systems	Affected: CH-47	Тур	e Modification: Unc	lassified	Related R	DT&E PEs:	
Manufacturer Information	on: Adjustable Pitch Chan	ge Link			'		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Oct 2011	Jun 2012		Jun 2014		Jun 2016	Jun 2017
Delivery Dates	Feb 2012	Oct 2012		Oct 2014		Oct 2016	Oct 2017
Manufacturer Information	on: Crashworthy Pilot Sea	ts					
Manufacturer Name: TBD	)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months): 6			Production Leadtime (in M	fonths): 10		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates				Apr 2014	Apr 2015	Apr 2016	Apr 2017
Delivery Dates				Feb 2015	Feb 2016	Feb 2017	Feb 2018
Manufacturer Information	on: AVCATT						
Manufacturer Name: PEC	STRICOM			Manufacturer Location: Or	lando, FL		
Administrative Leadtime	(in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: CH-47 MISC Mods \$5M	l or Less					
Manufacturer Name: TBD	)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Cargo On/Off Loading	System (COOLS) and	COOLS BPS				
Manufacturer Name: Boe	ing			Manufacturer Location: Ric	dley Park, PA		
Administrative Leadtime	(in Months): 5			Production Leadtime (in M	fonths): 8		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates			Oct 2012	Oct 2013	Oct 2014	Oct 2015	Oct 2016
Delivery Dates			Jun 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017
Manufacturer Information	on: Aircraft Component Pa	arts-Marking					
Manufacturer Name: TBD	)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in M	fonths):		

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Appropriation / Bu 2031A / BA 2 / BSA	<b>dget Activity / Budge</b> 10	et Sub Activity:	<b>P-1 Line Item No</b> AA0252 - CH-47	menclature: Cargo Helicopter Mods (N	MYP)	Modification Nome (Modification Title, M CH-47 Cargo Helico	odification Number):
Models of Systems	Affected: CH-47	Тур	<b>ne Modification:</b> Unc	lassified	Related R	DT&E PEs:	
Manufacturer Information	on: Aircraft Component Pa	arts-Marking			I		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informati	on: New Equipment Traini	ng (NET)		<u> </u>			
Manufacturer Name: TBI	)			Manufacturer Location: TB	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informati	on: Improved Rotor Blade	s					
Manufacturer Name: Boo	eing			Manufacturer Location: Ric	dley Park, PA		
Administrative Leadtime	(in Months): 4			Production Leadtime (in M	lonths): 6		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates						Jun 2016	Jun 2017
Delivery Dates						Dec 2016	Dec 2017
Manufacturer Informati	on: Special Operations Ai	rcraft Commonality					
Manufacturer Name: Boo	eing			Manufacturer Location: Ric	dley Park, PA		
Administrative Leadtime	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Transmission and Tor	que Management					
Manufacturer Name: TBI	)			Manufacturer Location: TB	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informati	on: Airframe Optimization	and Payload Improve	ements				
Manufacturer Name: TBI	)			Manufacturer Location: TB	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in M	lonths):		

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Exhibit P-3A, Indiv	vidual Modification: F	PB 2013 Army							Da	ı <b>te:</b> Febru	uary 2012		
Appropriation / Bu 2031A / BA 2 / BSA	udget Activity / Budgo v 10	et Sub Activity:	I		<b>lomenclat</b> 7 Cargo H		lods (MYP	)	(M	odificatio	n Nomeno n Title, Mo go Helicopt	dification l	,
Models of Systems	s Affected: CH-47	Тур	e Modific	<b>cation:</b> Ur	classified			Relate	d RDT&E	PEs:			
Manufacturer Informati	ion: Airframe Optimizatior	n and Payload Improve	ments										
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015		FY 20	16	FY 2	017
Contract Dates													
Delivery Dates													
Manufacturer Informati	ion: Improved Vibration C	ontrol System											
Manufacturer Name: TB	D				Manu	facturer Loca	ation: TBD						
Administrative Leadtime	(in Months):				Produ	ıction Leadtir	ne (in Months	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015		FY 20	16	FY 2	017
Contract Dates													
Delivery Dates													
Manufacturer Informati	ion: Cargo Platform Healtl	n Environment											
Manufacturer Name: Boo	eing				Manu	facturer Loca	ation: Ridley F	Park, PA					
Administrative Leadtime	(in Months):				Produ	ıction Leadtir	ne (in Months	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015		FY 20	16	FY 2	017
Contract Dates													
Delivery Dates													
Manufacturer Informati	ion: Degraded Visual Envi	ronment (MOD 21)											
Manufacturer Name: TB	D				Manu	facturer Loca	ation: TBD						
Administrative Leadtime	(in Months):				Produ	ıction Leadtir	me (in Months	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015		FY 20	16	FY 2	017
Contract Dates													
Delivery Dates													
								T					
Installation: Engine Filti	ration System		<del>.</del>	ementation			242		ion Name:	E)/ 00	40.000	E)/ 00/	
		Prior Y	Total Cost	FY 2	2011 Total Cost		2012 Total Cost	FY 2013 Qty	Total Cost		13 OCO Total Cost	FY 201	3 Total Total Cost
Installation Cost		Qty (Each)	(\$ M)	(Each)	(\$ M )	<b>Qty</b> (Each)	(\$ M)	(Each)	(\$ M)	<b>Qty</b> (Each)	(\$ M)	<b>Qty</b> (Each)	(\$ M)
All Prior Years		406	1.400	34	0.300	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012		0	0.000	0	0.000	0	0.000	0	0.000	0		0	0.000
FY 2013		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: Engine Filtration System Method of Implementation: Various Installation Name: **Prior Years** FY 2012 **FY 2013 OCO** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) FY 2014 0.000 0.000 0.000 0.000 0.000 0.000 0 0 0 FY 2015 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 Ω 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 To Complete 34 Total 406 1.400 0.300 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 **FY 2017** To Complete **Total Total Cost Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Installation Cost (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (Each) (\$ M) (Each) (\$ M) 0 0 0.000 0 0.000 0 0.000 0 0.000 0.000 440 1.700 All Prior Years FY 2011 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2012 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2014 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0 To Complete 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 Total 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 440 1.700 Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 2 **APY** 1 2 4 1 2 4 1 2 3 4 1 4 1 2 3 4 1 2 4 1 2 3 4 TC Tot 406 34 0 0 0 0 0 0 ' 0 440 In 0 0 0 34 0 440 Out 406

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

Installation: Engine Improvement	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	2.916	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	2.916	0	0.000	0	0.000	0	0.00

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.916
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.916

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Exhibit P-3A, Individual Modification: PB 2013 Army

P-1 Line Item Nomenclature: Modification Nomenclature

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

(Modification Title, Modification Number):

CH-47 Cargo Helicopter Mods - 0000

Date: February 2012

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

Installation: Engine Improvement Method of Implementation: Various Installation Name:

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Maintenance Training Devices (MTD)	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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EXII	ibit P	-3A,	Indi	vid	lual Mo	dific	atio	on: P	B 201	3 Ar	my													ate:	Febru	uary	2012				
	ropri IA / E				<b>get Act</b> i 0	vity	/ B	udge	t Sub	Act	ivity:					omeno Cargo		-	/lods	s (MYF	?)		(	Modif	icatio	n Tit	omeno tle, Mod elicopt	dific	ation		,
Mod	els o	f Sy	stem	าร /	Affecte	d: C	H-4	7			T	ype N	lodific	atio	<b>n:</b> Un	classifi	ed				Re	lated	RDT&	E PEs	s:						
Insta	llation	: Maiı	ntenar	nce	Training [	evic	es (N	ИTD)			М	ethod	of Impl	emen	tation:	Various					Ins	tallatio	on Name:	<u> </u>							
												2014			FY 2			FY	2016			FY 201		_	То Со	mple	te		To	otal	
Insta	llation	Cost	:								Qty (Each)		al Cost		ity ach)	Total Co		<b>Qty</b> Each)		al Cost	Qty (Each		Total Cost		Qty ach)		al Cost		Qty ach)		al Cost
FY 20	)17											0	0.000		0	0	.000	0		0.000		0	0.000	)	0	_	0.000		0	)	0.000
To Co	mplet	е										0	0.000		0	0	.000	0		0.000		0	0.000	)	0	)	0.000		0	)	0.000
Total												0	0.000		0	0	.000	0		0.000		0	0.000	ס	0	)	0.000		0	)	0.000
Insta	llation	Sche	edule																												
			F	Y 2	011				2012			FY 2	013			FY 201	4			Y 2015			FY 20	16			FY 20	17			
	APY	_	2	-	3 4	_	1	2	3	4	1	2	3	4	1		3 4		2	_	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	_	0	0	0	0	0		0		-	0	0	0	0	0	0		0		0 0		-	0	0	0	0	0	0	0	
Out	-		0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	ס	0	0 0	0	0	0	0	0	0	0	0	0	0
Insta	llation	: Trar	nsform	natio	n Sets, K	its ar	ıd Oı	utfits				- 411																			
											IVI	etnoa	of Impl	emen	tation:	Various					Ins	tallatic	on Name:	:							
Insta												r Years	<u> </u>	emen	tation: FY 2			FY:	2012			2013 I		1	FY 20	13 00	0		FY 20	13 Tot	tal
	llation	Cost	:									r Years	<u> </u>	Q				FY :	Tota	al Cost		2013 I		1	FY 20°	Tot	CO ral Cost	- (	FY 20°	Tota	tal al Cost
All Pr	llation ior Yea		:								Prio Qty (Each)	r Years	S al Cost	Q	FY 2	**************************************		Qty	Tota		FY Qty	2013 I	Base Total Cost	(Ea	Qty	Tot	al Cost	- (	Qty	Tota	al Cost \$ M )
All Pr	ior Yea		:								Prio Qty (Each)	r Years	S al Cost	Q	FY 2	Total Co (\$ M)		<b>Qty</b> Each)	Tota	\$ M )	FY Qty	<b>2013 I</b>	Base Total Cost	(Eaction	Qty ach)	Tot (	al Cost	- (	Qty ach)	Tota (\$	al Cost
	ior Yea		:								Prio Qty (Each)	r Years	6 M ) 0.000	Q	FY 2 htty ach)	Total Co (\$ M) 0	.000	<b>Qty</b> Each)	Tota	\$ M ) 0.000	FY Qty	<b>2013 I</b>	Base Total Cost (\$ M) 0.000	(E:	Qty ach)	Tot	(\$ M ) 0.000	- (	Qty Each)	Tota (S	al Cost \$ M ) 0.000
FY 20	ior Yea )11 )12		:								Prio Qty (Each)	r Years Tota (\$	S al Cost (S M ) 0.000 0.000	Q	FY 2	<b>P.011</b> Total Co (\$ M) 0 0	.000	Qty Each) 0	Tota	0.000 0.000	FY Qty	2013 I	Base Total Cost (\$ M) 0.000	(E)	Qty ach)	Tot	al Cost (\$ M) 0.000 0.000	- (	Qty Each)	Tota (S	al Cost \$ <i>M</i> )
FY 20	ior Yea 011 012 013		:								Prio Qty (Each)	Tota (3 0 0 0 0 0 0 0 0	0.000 0.000	Q	FY 2  tty 0 0 0 0 0	Total Co (\$ M) 0 0	.000	<b>Qty</b> Each) 0	Tota	0.000 0.000 0.000	FY Qty	2013 I	Base Total Cost (\$ M) 0.000 0.000	(Es	Oty ach) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tot (	0.000 0.000 0.000 0.000 0.000	- (	Qty Each)	Tota (\$	al Cost \$ M ) 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014										Prio Qty (Each)	Tota (\$ 0 0 0 0 0 0 0 0 0 0	Sal Cost (M) 0.000 0.000 0.000 0.000 0.000	Q	FY 2  ach)  0  0  0  0  0	**D11 Total Co (\$ M) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000 0000 0000 0000 0000	Qty	Tota	0.000 0.000 0.000 0.000 0.000 0.000	FY Qty	2013 I  0  0  0  0  0  0  0	Base Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000	(E) (E) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	Tot (	0.000 0.000 0.000 0.000 0.000 0.000	- (	Qty   0   0   0   0   0   0   0   0   0	Tota (S	0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014 015										Prio Qty (Each)	Total (3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000	Q	FY 2  ach)  0  0  0  0  0  0	Total Co (\$ M ) 0 0 0 0 0	.000 .000 .000 .000 .000 .000	Qty = = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tota	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty	2013 I	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(Each of the control	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Tot (	0.000 0.000 0.000 0.000 0.000 0.000 0.000	- (	Oty Each) 0 0 0 0 0	Tota	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014 015 016	ars									Prio Qty (Each)	Tota (\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S   Cost   S   M	Q	FY 2  tty ach)  0  0  0  0  0  0  0	Total Co (\$M) 0 0 0 0 0 0	0000 0000 0000 0000 0000 0000	Qty	Tota	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty	2013 I	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(Es	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Tot (1)	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	- (	Qty	Tota	al Cost \$ M) 0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014 015	ars									Prio Qty (Each)	Total (3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S   Cost   S   M   O.000	Q	FY 2  Rty ach)  0  0  0  0  0  0  0  0  0  0	Total Co (\$M) 0 0 0 0 0 0 0 0	0000 0000 0000 0000 0000 0000 0000	Oty Each) 0 0 0 0 0 0 0 0	Tota	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty	2013 I ) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(Es)	Qty ach)  0  0  0  0  0  0  0  0  0	Tot (1)	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	- (	Oty (ach) (a	Tota (\$	al Cost \$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014 015 016	ars									Prio Qty (Each)	Tota (\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S   Cost   S   M	Q	FY 2  tty ach)  0  0  0  0  0  0  0	Total Co (\$M) 0 0 0 0 0 0 0 0	0000 0000 0000 0000 0000 0000	Qty	Tota	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty	2013 I	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(Es)	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Tot (1)	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	- (	Qty	Tota (\$	al Cost \$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 FY 20 FY 20	ior Yea 011 012 013 014 015 016	ars									Prio Qty (Each)	Total (3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S   Cost   S   M   O.000	Q	FY 2  Rty ach)  0  0  0  0  0  0  0  0  0  0	Total Co (\$ M ) 0 0 0 0 0 0 0 0 0	0000 0000 0000 0000 0000 0000 0000	Oty Each) 0 0 0 0 0 0 0 0 0	Tota	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty (Each	2013 I ) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		Qty ach)  0  0  0  0  0  0  0  0  0	Tot (1)	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	- (	Qty (ach) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tota (\$	al Cost \$ M ) 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 To Co Total	ior Yea 011 012 013 014 015 016	e									Prio Qty (Each)	T Years  Tota (3 0 0 0 0 0 0 0 0 0 0 0 0 7 2014	1 Cost (5 M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Q Q (Es	FY 2  (a)  (b)  (c)  (c)  (c)  (d)  (d)  (d)  (d)  (d	Total Co (\$ M ) 0 0 0 0 0 0 0 0 0	000	Oty Each) 0 0 0 0 0 0 0 0 0	Tota (3	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty (Each	2013 I	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  17		Oty ach) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(E	Qty (ach) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Total	al Cost \$ M )  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FY 20 FY 20 FY 20 FY 20 FY 20 TO Co Total	ior Yea 011 012 013 014 015 016 017	e Cost									Prio Qty (Each)	T Years  Tota (3 0 0 0 0 0 0 0 0 0 0 0 0 7 2014	S al Cost (S M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Q Q (Es	FY 2  tty ach)  0  0  0  0  0  0  0  FY 2	Total Co (\$ M)  0  0  0  0  0  0  0  0  0  0  0  0  0	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tota (3	\$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty (Each	2013 I	Base Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(E-1)	Oty ach)	Total	al Cost \$ M )  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	(E	Qty (ach) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Total	al Cost \$ M ) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

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

Installation: Transformation Sets, Kits and Outfits	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	To	otal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	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	0	0
Out	-	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	0	0

Installation: M24A1 Window/Door Gun Mount	Me	thod of Impl	ementation	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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 )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

Installation: M24A1 Window/Door Gun Mount	Me	thod of Impl	ementation	: Various			Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	To	tal
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	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	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	-	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	0
Out	-	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	0

Installation: Adjustable Pitch Change Link	N	lethod of Impl	ementation:	Various			Installa	tion Name:				
	Pric	or Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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

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Exhibit P-3A,	Individ	lual Mo	dific	ation	ı: PB	2013	Arm	y													D	ate:	Feb	ruary	2012				
Appropriation 2031A / BA 2 /			ivity	/ Bud	dget	Sub A	Activ	vity:		<b>P-1 L</b> AA02						er M	ods (M)	'P)			(/	Modi	ificati	on Tit	omeno le, Mo elicopt	dific	ation		,
Models of Sys	stems	Affecte	d: C	H-47				Ту	ype N	/lodific	catio	<b>n</b> : Ur	ıclass	ified				F	Relate	d R									
Installation: Adju	stable Pi	tch Chanc	ge Lin	k				Me	ethod	of Impl	emen	tation	: Variou	ıs				1	nstallati	ion N	lame:								
									r Year				2011			FY 20	012		FY 2013				FY 2	013 O	0		FY 20°	13 Tota	al
Installation Cost							/5	Qty Each)		al Cost	(5	Qty (ach)	Total		Qty (Each	,	Total Cost	C	Qty ach)		I Cost		<b>Qty</b> Each)		al Cost	4	<b>Qty</b> Each)		I Cost
To Complete							( -		0 (.	0.000	(E	0 acri)	(\$ A	0.000	(Eacri	0	(\$ M ) 0.00	+ ,	0	(4)	<i>M)</i>	+ '	Eacri)	0	\$ M ) 0.000	( -	0 acri		0.000
Total								(	0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0	)	0.000
							-											<u> </u>								_			
									2014				2015			FY 20			FY 20					omple		<u> </u>		otal	
Installation Cost								<b>Qty</b> ∃ach)		al Cost \$ <i>M</i> )		Qty ach)	Total (\$ A		<b>Qty</b> (Each	,	Total Cost (\$ M)		Qty ach)		I Cost	(	<b>Qty</b> Each)		al Cost \$ M )		<b>Qty</b> ∃ach)		I Cost
All Prior Years								(	0	0.000		0		0.000		0	0.00	0	0		0.000			0	0.000		0	)	0.000
FY 2011									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
FY 2012									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
FY 2013									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000	<u> </u>	0		0.000
FY 2014									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000	<u> </u>	0		0.000
FY 2015									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
FY 2016									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
FY 2017									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
To Complete Total									0	0.000		0		0.000		0	0.00		0		0.000			0	0.000		0		0.000
Installation Sche	dule																												
	FY 2	011			FY 20	)12			FY 2	2013			FY 2	014			FY 201	5			FY 201	16			FY 20	17			
APY 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	1	2	3	4	тс	Tot
In - (	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	0	О
Out - (	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	0	0
Installation: Cras	hworthy	Pilot Seat	ts					Me	ethod	of Impl	emen	tation	Variou	JS				I	nstallati	ion N	lame:								
								Prio	r Year	s		FY 2	2011			FY 20	)12	ı	FY 2013	Bas	e		FY 2	013 O	0		FY 20	13 Tota	al
Installation Cost								<b>Qty</b> ∃ach)		al Cost \$ M )		Qty ach)	Total (\$ A		<b>Qty</b> (Each	,	Total Cost (\$ M)		Qty ach)		I Cost	(	<b>Qty</b> Each)		al Cost \$ M )		<b>Qty</b> ≣ach)		I Cost
All Prior Years								(	0	0.000		0		0.000	_	0	0.00	0	0		0.000			0	0.000		0	)	0.000
FY 2011								(	0	0.000		0		0.000		0	0.00	0	0		0.000			0	0.000		0		0.000
FY 2012								_	0	0.000		0	I	0.000		0	0.00	_	0		0.000	1		0	0.000		0		0.000

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army UNCLASSIFIED Page 29 of 45

P-1 Line #23

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: **Modification Nomenclature** P-1 Line Item Nomenclature: 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: Crashworthy Pilot Seats Method of Implementation: Various Installation Name: **Prior Years** FY 2012 **FY 2013 OCO** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost Installation Cost (Each) (\$ M) FY 2013 0.000 0.000 0.000 0.000 0.000 0.000 0 0 0 FY 2014 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 Total 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 **FY 2017** Total To Complete Qty **Total Cost** Installation Cost (\$ M) (\$ M) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) 0.000 0.000 All Prior Years 0 0.000 0 0.000 0 0.000 0 0.000 FY 2011 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2015 0 0.000 120 0.379 0.000 0 0.000 0 0.000 120 0.379 FY 2016 0 0.000 0.000 100 0.321 0.000 0 0.000 100 0.321 FY 2017 0 100 0 0.000 0.000 0 0.000 0.326 0.000 100 0.326 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 1.030 3.463 1.030 3.463 Total 0.000 120 0.379 100 0.321 100 0.326 1,030 3.463 1,350 4.489 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016 FY 2017 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 2 3 4 TC 1 Tot 0 0 0 0 0 0 0 0 0 0 25 25 25 25 30 30 24 26 26 24 24 26 0 30 30 24 26 1,030 1,450 In 0 25 Out 0 0 0 0 0 0 0 0 0 0 0 25 25 25 30 30 30 30 24 24 26 26 24 24 26 26 1,030 1,450

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

Installation: AVCATT	Met	hod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (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	0.00
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

Installation: AVCATT Method of Implementation: Various Installation Name:

#### Installation Schedule

				FY 2	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
		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		-	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	0	0
Οι	ut	-	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	0	0

Installation: CH-47 MISC Mods \$5M or Less	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)										
All Prior Years	35	2.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	1.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	35	2.300	0	1.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (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	35	2.300
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Exh																											
	ibit F	P-3A, lı	ndivi	dual Mo	difica	ation:	: PB	2013	Arm	у										D	ate: Feb	ruary	2012				
		riation / BA 2 / E		get Act	vity	/ Bud	lget	Sub A	ctiv	vity:			<b>ne Item I</b> 52 - CH-4			er M	lods (M	YP)		(/	lodificat Modificati H-47 Ca	on Ti	tle, Mo	difica	ation		,
Mod	els	of Syst	tems	Affecte	d: CH	H-47				Ту	/ре М	odific	ation: U	nclassifie	k				Relate	ed RDT&E	E PEs:						
Insta	llatio	n: CH-47	MISC	Mods \$5N	1 or Le	ess				Me	ethod o	of Imple	ementation	: Various					Installa	tion Name:							
										FY	2014		FY	2015		FY 2	016		FY 2	2017	To C	omple	ete		To	tal	
Insta	llatio	n Cost								<b>Qty</b> Each)	Total	I Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)		Total Cos	t	Qty (Each)	Total Cost (\$ M)	Qty (Each)		tal Cost (\$ M )		Qty ach)		I Cost
FY 20	)17									(	)	0.000	0	0.00	)	0	0.0	000	0	0.000		0	0.000		0		0.000
To Co	mple	te								(	)	0.000	0	0.00	ס	0	0.0	000	0	0.000		0	0.000		0		0.000
Total										(	)	0.000	0	0.00	ס	0	0.0	000	0	0.000		0	0.000		35		3.300
Insta	llatio	n Sched	ule FY 2	044			FV 00	140			FY 20	242		FY 2014			FV 20	4.5		FY 201	10		FY 20	47			
	AP	( 1	2	3 4			FY 20 2		4	1	2	3	4 1	2 3	4	1	FY 20	3	4 1	_	3 4	1	2	3	4	тс	Tot
ln	-	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	_
Out	-	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	0
Insta BPS	llatio	<b>n:</b> Cargo	On/Of	f  !:																							
				r Loading	Systen	n (COC	OLS)	and CO	OLS		ethod o	<del></del> -	ementation FY	: Various 2011		FY 2	012		Installa	tion Name: 3 Base	FY 2	013 O	со		FY 201	I3 Tot	al
Insta	llatio	n Cost		r Loading	Syster	n (COC	OLS)	and CO			r Years Total	<del></del> -			Qty (Each)		012 Total Cos	t			FY 2 Qty (Each)	To	CO tal Cost (\$ M)	(	FY 201 Qty ach)	Tota	al Il Cost
<b>Insta</b> All Pr				r Loading	Syster	n (COC	OLS)	and CO		Prior	r Years Total	l Cost	FY Qty	2011 Total Cost (\$ M)	Qty (Each)		Total Cos	t 000	FY 201	3 Base Total Cost	Qty (Each)	To	tal Cost	(	Qty	Tota	I Cost
	ior Ye			r Loading	Syster	n (COC	OLS)	and CO		Prior	Total	I Cost	FY Qty (Each) 0	2011 Total Cost (\$ M) 0.00	Qty (Each)		Total Cos (\$ M )		FY 201 Qty (Each)	3 Base Total Cost (\$ M)	Qty (Each)	0 0	tal Cost (\$ M )	(	Qty ach)	Tota (\$	I Cost
All Pr FY 20 FY 20	ior Ye )11 )12			rLoading	Systen	n (COC	OLS)	and CO		Prior	Total (\$	3.200 0.000	Gty (Each)	2011 Total Cost (\$ M) 0.00 3.20 0.00	Qty (Each)	0 0	Total Cos (\$ M) 0.0 0.0	000	FY 201  Qty (Each)  0  0	3 Base  Total Cost (\$ M )  0.000  0.000	Qty (Each)	0 0 0	tal Cost (\$ M ) 0.000 0.000	(	(ach) 0	Tota (\$	0.000 0.000 0.000
All Pr FY 20 FY 20 FY 20	ior Ye )11 )12 )13			r Loading	Systen	n (COC	OLS)	and CO		Prior Qty Each)	Total (\$	3.200 0.000 0.000	<b>FY Qty</b> ( <i>Each</i> )  0  0  0	Total Cost (\$ M) 0.00 3.20 0.00	Qty (Each)	0 0 0 0	Total Cos (\$ M) 0.0 0.0 0.0	000	FY 201  Qty (Each)  0  0  26	3 Base Total Cost (\$ M ) 0.000 0.000 1.928	Qty (Each)	0 0 0 0	(\$ M ) 0.000 0.000 0.000 0.000	(	0 0 0 26	Tota (\$	0.000 0.000 0.000 1.928
All Pr FY 20 FY 20 FY 20 FY 20	ior Ye )11 )12 )13 )14			r Loading	Systen	n (COC	OLS)	and CO		Prior  Qty  Each)	Total (\$	3.200 0.000 0.000 0.000	<b>FY Qty</b> ( <i>Each</i> )  0  0  0  0	Total Cost (\$ M) 0.00 3.20 0.00 0.00	Qty (Each) 0 0 0 0 0 0 0	0 0 0 0 0	Total Cos (\$ M ) 0.0 0.0 0.0 0.0	000	FY 201  Qty (Each)  0  0  26	3 Base Total Cost (\$ M ) 0.000 0.000 1.928 0.000	Qty (Each)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(\$ M )  0.000  0.000  0.000  0.000  0.000  0.000	(	0 0 0 0 26	Tota (\$	0.000 0.000 0.000 1.928
All Pr FY 20 FY 20 FY 20 FY 20	ior Ye )11 )12 )13 )14 )15			r Loading	Systen	n (COC	OLS)	and CO		Prior Otty Each)	Total (\$	3.200 0.000 0.000 0.000 0.000	PY Qty (Each) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M) 0.00 3.20 0.00 0.00 0.00	Qty (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	Total Cos (\$ M) 0.0 0.0 0.0 0.0 0.0	000 000 000 000 000	FY 201 Qty (Each)  0 0 0 26 0 0	3 Base Total Cost (\$ M ) 0.000 0.000 1.928 0.000 0.000	Qty (Each)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tal Cost (\$ M ) 0.000 0.000 0.000 0.000 0.000	(	0 0 26 0 0	Tota (\$	0.000 0.000 0.000 0.000 1.928 0.000
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All Pr FY 20 FY 20 FY 20 FY 20 FY 20 FY 20 To Co	ior Ye 011 012 013 014 015 016	ears		r Loading	System	n (COC	OLS)	and CO	(E	Prior  Qty  (()  (()  (()  (()  (()  (()  (()  (	Total (\$ ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	1 Cost M) 3.200 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty (Each) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M) 0.00 3.20 0.00 0.00 0.00 0.00 0.00 0.00	Qty (Each)	0 0 0 0 0 0 0	Total Cos (\$ M) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000 0000 0000 0000 0000 0000 0000	FY 201. Qty (Each)  0  0  26  0  0  FY 201.	3 Base  Total Cost (\$M) 0.000 0.000 1.928 0.000 0.000 0.000 1.928	Qty (Each)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tal Cost (\$ M )  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	(E	0 0 0 26 0 0 0 0 26 To	Total	11 Cost (M) 0.000
All Pr FY 20 FY 20 FY 20 FY 20 FY 20 FY 20 To Co Total	ior Ye )11 )12 )13 )14 )15 )16 )17  pmple	ears		r Loading	System	n (COC	OLS)	and CO	(E	Prior	Total (\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.200 0.000 0.000 0.000 0.000 0.000 0.000 0.000	FY Qty (Each) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  20.00  Total Cost (\$ M)	Qty (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	Total Cos (\$ M) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000 0000 0000 0000 0000 0000 0000	FY 201  Qty (Each)  0  0  26  0  0  0  26  26	3 Base  Total Cost (\$M)  0.000  0.000  1.928  0.000  0.000  0.000  0.000  1.928	Qty (Each)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tal Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	(E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Total	11 Cost (5 M) 0.000 0.000 1.928 0.000 0.000 0.000 0.000 0.000 0.000 0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: **Modification Nomenclature** P-1 Line Item Nomenclature: 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: Cargo On/Off Loading System (COOLS) and COOLS **BPS** Method of Implementation: Various Installation Name: FY 2014 FY 2015 FY 2016 **FY 2017** To Complete Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Total Cost **Total Cost** Qty Qty **Installation Cost** (Each) (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 3.200 FY 2011 0 0.000 0.000 0.000 0.000 0 0.000 0 FY 2012 0 0 0.000 FY 2013 0.000 0 0.000 0 0.000 0.000 0 0.000 26 1.928 52 3.921 0 0.000 0.000 0 0.000 0 0.000 52 3.921 FY 2014 Ω FY 2015 0 0.000 72 5.521 0 0.000 0 0.000 0 0.000 72 5.521 72 FY 2016 0 0.000 0 0.000 72 5.615 0 0.000 0 0.000 5.615 FY 2017 0.000 0 0.000 0.000 72 5.710 0 0.000 72 5.710 0 0.000 0 0.000 0 0.000 0 0.000 56 4.517 56 4.517 To Complete 52 72 5.521 72 5.615 72 5.710 56 4.517 350 Total 3.921 33.612 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 2 1 2 2 1 2 2 4 2 4 TC 4 1 3 4 3 4 1 3 4 3 4 1 3 1 3 Tot 18 In 0 0 0 0 0 0 0 10 10 6 13 13 13 13 18 18 18 12 12 12 12 12 12 12 12 56 302 Out 0 0 0 0 0 0 0 0 0 10 10 6 13 13 13 13 18 18 18 18 12 12 12 12 12 12 12 12 56 302 Installation: Aircraft Component Parts-Marking Method of Implementation: Various Installation Name: FY 2012 **FY 2013 OCO** FY 2013 Total FY 2011 **FY 2013 Base Prior Years** Qty **Total Cost** Installation Cost (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (Each) (\$ M) (Each) All Prior Years 0.000 0.000 0.000 0.000 0 0.000 0 0.000 FY 2011 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 FY 2013 0 0.000 0 0 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000

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Exhi	bit l	P-3A	Inc	livid	ual	Мо	difi	cati	on: F	РΒ	2013	3 Arı	my							_					D	ate	: Febr	uary	2012				
		r <b>iatio</b> BA 2				Act	ivit	y / E	Budg	et :	Sub	Act	ivity	:	1				omenclat Cargo He		ter M	lods (MYF	<b>'</b> )		(/	Мос	dificatio	on Tit	omeno le, Mod elicopto	difica	ation		•
Mod	els	of Sy	ste	ms /	<b>Affe</b>	cte	<b>d</b> : (	CH-4	17					Туре	Mod	ficat	ion: L	Jnc	classified				Rela	tec	RDT&E	EΡ	Es:						
Instal	latio	n: Airc	raft (	Comp	oner	ıt Pa	rts-N	/larkii	ng					Metho	od of In	plem	entatio	n: \	Various				Instal	lati	on Name:								
													P	ior Ye	ars		FY	20	011		FY 2	2012	FY 20	)13	Base		FY 20	13 00	o		FY 201	3 Tota	al
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То Со	mple	ete												0	0.0	00		0	0.000		0	0.000		0	0.000			0	0.000		0		0.000
Total														0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
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Instal	latio	n Cos	t										Qty (Each		Total Cos	t	Qty (Each)		Total Cost	Qty (Eac		Total Cost (\$ M )	Qty (Each)		Total Cost		Qty (Each)		al Cost		<b>Qty</b> ach)		l Cost
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FY 20	11													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	12													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	13													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	14													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	15													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	16													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
FY 20	17													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
To Co	mple	ete												0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
Total														0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000
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											ior Ye	ars		FY	20	011		FY 2	2012	FY 20	)13	Base		FY 20	13 OC	0		FY 201	3 Tota	al			
Instal	latio	n Cos	t										Qty (Each)		Total Cos	1	Qty (Each)		Total Cost (\$ M)	Qty (Eac		Total Cost (\$ M )	Qty (Each)		Total Cost (\$ M)		Qty (Each)		al Cost \$ M )		<b>ity</b> ach)		Cost
All Pri	or Ye	ears												0	0.0	00		0	0.000		0	0.000		0	0.000			0	0.000		0		0.000
FY 20	11													0	0.0	00		0	0.000		0	0.000		0	0.000			0	0.000		0		0.000
FY 20	12													0	0.0	00		0	0.000		0	0.000		0	0.000	)		0	0.000		0		0.000

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UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: **Modification Nomenclature** P-1 Line Item Nomenclature: 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: New Equipment Training (NET) Method of Implementation: Various Installation Name: **Prior Years** FY 2012 **FY 2013 OCO** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) FY 2013 0.000 0.000 0.000 0 0.000 0.000 0.000 0 0 FY 2014 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 Total 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 FY 2017 Total To Complete Qty **Total Cost** Qty **Total Cost Installation Cost** (\$ M) (\$ M) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) 0.000 0.000 0.000 0.000 All Prior Years 0 0.000 0 0 0 0.000 FY 2011 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2017 0 0 0 0 0.000 0.000 0 0.000 0.000 0.000 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 Total 0.000 0.000 0.000 0.000 0.000 0 0.000 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016 FY 2017 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 0 In 0 0 0 0 0 Out 0

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

Installation: Improved Rotor Blades	Met	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

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

Installation: Improved Rotor Blades Method of Implementation: Various Installation Name:

#### Installation Schedule

				FY 2	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
		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		-	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	0	0
Οι	ut	-	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	0	0

Installation: Special Operations Aircraft Commonality	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Mod	lels d	of S	yste	ms	Affe	cted	: CH-	-47				T	ype N	lodific	catio	<b>n:</b> Un	classif	ied					Re	lated	RDT&	E PE	s:						
Insta	llatior	ı: Sp	ecial	Oper	ations	s Aircr	aft Co	mmc	nality	/		М	ethod (	of Impl	emen	tation:	Various	i					Inst	allatio	n Name	:							
													2014			FY 2				Y 20	)16			FY 201			To C	omple	ete		To	otal	
Insta	llatior	ı Cos	st									Qty (Each)		I Cost		Qty ach)	Total Co		Qty (Each)		Total Co		Qty (Each)		Total Cost		<b>Qty</b> (Each)		tal Cost		Qty Each)		al Cost
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To C	omple	te											0	0.000		0	0	0.000		0	C	0.000		0	0.00	00		0	0.000		C	)	0.000
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Insta	llatior	Sch	edul	е																													
				FY 2	2011				FY 20	012			FY 2	013			FY 20	14			FY 2	015	,		FY 20	16			FY 20	17	1		
	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	-	-	0	0	C			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	-	0	0	0	0	0		0	
Out	-		0	0	C	)	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
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												141	etnoa	ot impi	emen	tation:	Various						Inst	allatio	on Name	:							
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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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P-1 Line #23

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

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

Installation: Transmission and Torque Management	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
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)
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Airframe Optimization and Payload Improvements	s Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: **Modification Nomenclature** P-1 Line Item Nomenclature: 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: Airframe Optimization and Payload Improvements Method of Implementation: Various Installation Name: FY 2014 FY 2016 FY 2015 FY 2017 To Complete Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Total Cost Qty **Installation Cost** (Each) (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 All Prior Years 0 0 FY 2011 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0.000 0 0.000 Ω 0.000 0.000 0 0.000 0 0.000 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0 1 FY 2017 0.000 0 0.000 0 0.000 0.000 n 0.000 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0.000 To Complete 0.000 0.000 0.000 0.000 0 0.000 0 0.000 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016 FY 2017** 2 **APY** 2 2 1 2 1 2 2 2 4 TC 1 4 1 4 4 1 1 1 Tot 0 0 0 0 0 In 0 Out 0 0 0 0 0 0 Installation: Improved Vibration Control System Method of Implementation: Various Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 OCO** FY 2013 Total **FY 2013 Base** Qtv Total Cost Qty **Total Cost** Qtv **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qtv **Total Cost** Installation Cost (Each) (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 All Prior Years 0 0.000

LI AA0252 - CH-47 Cargo Helicopter Mods (	MYP)
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Exhil	nibit P-3A, Individual Modification: PB 2013 Army															Date: February 2012																				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10													P-1 Line Item Nomenclature: AA0252 - CH-47 Cargo Helicopter Mods (MYP)													Modification Nomenclature (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000										
Models of Systems Affected: CH-47 Type													ype Modification: Unclassified								Rel	ated	RDT	ξE I	PEs:											
Install	lati	on: In	npro	ved V	ibra	ition (	Cor	ntrol S	Syste	m				N	/lethod	d of Implementation: Various							Inst	Installation Name:												
												Pri	or Yea	ırs	FY 2011					FY 2012				FY 2013 Base				FY 2013 OCO				FY 2013 Total				
Qty												Qty (Each)		otal Cost		<b>Qty</b> (Each)		Total Cost		Qty (Each)		Total Cos	it	Qty (Each)		Total Cos	t	Qty (Each)		tal Cost		Qty (Each)		tal Cost		
To Complete												0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000			
Total															0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000
												F	Y 2014	1	FY 2015				F	16		F	Y 20	)17		To C	omple	nplete		Tota						
											Qty (Each)		otal Cost		<b>Qty</b> Each)		Total Cost		Qty (Each)		Total Cos	t	Qty (Each)		Total Cos	t	Qty (Each)		tal Cost		Qty (Each)		tal Cost (\$ M )			
All Prior Years														0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000	
FY 2011														0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000	
FY 2012														0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000	
FY 2013												0		0.00	0.000		0		00		0	0.000		0		0.000			0.000		0		0	0.000		
FY 2014													0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000		
FY 2015														0	0.000		30		1.1	83		0 0.0		000	0					0		0.000 30		0		
FY 2016													0	0.00	0		0	0.0	00		56	2.2	246		0	0.0	000		0	0.000		5	6	2.246		
FY 20															0	0.00	-		0	0.0			0		000		47	1.9			0	0.000			7	1.917
To Complete														0	0.00	_		0	0.0			0		000		0	0.0		41		18.584	_	41		18.584	
Total															0	0.00	0	3	0	1.1	83		56	2.2	246		47	1.9	17	41	7	18.584		55	0	23.930
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	•	PY	1	FY 2	20	11 3	4		1	FY :	·	2 3	4	1	FY 2	2013	4	1		FY 2014	_		1	FY 20	15 3	4	1	FY 2	016	4	1	FY 20	017 3	4	тс	Tot
In			0			0	4	0	0	0	+	0	0	0	-			) (	+	0	0	0	0	10	10		14	+			11	12	12		+	
Out		-	0		0	0		0	0	0	+	0	0		-				+	0	0	0	0	10	10		14	-	1		11	12	12	_	_	_
Install	lati	on: C	argo	Platf	orm	Heal	lth	Envir	onmo	ent				N	/lethod	d of Imp	oleme	ntatio	n: \	Various						Inst	allatio	on Nam	e:							
Prior Yea												or Yea	ars FY 2				011		FY 2012				FY	2013	Base		FY 20	13 00	co		FY 2013 Total					
Installation Cost Qty (Each)														otal Cost	<b>Qty</b> Each)				Qty (Each)		Total Cost (\$ M)		Qty (Each)		Total Cost (\$ M)		Qty (Each)		Total Cost (\$ M)		Qty (Each)		Total Cost			
All Prior Years												0	0.00	0		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000			
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FY 2012 0											0	0.00	o 🗆		0	0.0	00		0	0.0	000		0	0.0	000		0	0.000			0	0.000				

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

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0252 - CH-47 Cargo Helicopter Mods (MYP) (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000 Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs: Installation: Cargo Platform Health Environment Method of Implementation: Various Installation Name: **Prior Years** FY 2012 **FY 2013 OCO** FY 2011 **FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) FY 2013 0.000 0.000 0.000 0 0.000 0.000 0.000 0 0 FY 2014 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 Total 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 FY 2017 Total To Complete Qty **Total Cost** Qty **Total Cost Installation Cost** (\$ M) (\$ M) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) 0.000 0.000 0.000 0.000 All Prior Years 0 0.000 0 0 0 0.000 FY 2011 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2017 0 0 0 0 0.000 0.000 0 0.000 0.000 0.000 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 Total 0.000 0.000 0.000 0.000 0.000 0 0.000 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016 FY 2017 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 0 In 0 0 0 0 0 Out 0

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

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

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

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

Installation: Degraded Visual Environment (MOD 21)	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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	0.00
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	Tot	al
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	137	4.736	137	4.736
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	413	14.277	413	14.27
Total	0	0.000	0	0.000	0	0.000	0	0.000	550	19.013	550	19.01

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

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

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

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

Installation: Degraded Visual Environment (MOD 21)

Method of Implementation: Various

Installation Name:

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	0	0	C	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	550	550
Out	-	0	C	C	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	550	550

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0270 - Utility/Cargo Airplane Mods

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

### **Description:**

The budget line updates and modernizes all series Army fixed wing aircraft such as C-31A, UV-18, UV-20, CE-182, CE-208, O-2, T-34, U-21, B-300, King Air 350, C-12, RC-12, UC-35, C-23, C-26, C-37, C-20 and EO-5 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.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total		FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-		-	-	-	-	-
	Total Obligation Authority	9.338	12.1	07 10.259	-	10	0.259	11.729	11.036	14.139	14.107
Army National	Quantity	-	-	-	-		-	-	-	-	-
Guard	Total Obligation Authority	-	-	9.571	-	9	9.571	11.859	1.657	4.101	5.756
Army Reserve	Quantity	-	-	-	-		-	-	-	=	-
	Total Obligation Authority	7.000	-	5.012	-		5.012	5.309	2.474	4.372	3.970
14.	ana Calaaduda	Duian	V	EV 2044	EV 20	40		EV 2042 Dags	EV 2042 O	CO []	/ 0042 Tatal

Item Sche	dule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost
Utility/Cargo Airplane Mods - 0000	P3A		-	-	190.627	-	-	16.338	-	-	12.107	-	-	24.842	-	-	-	-	-	24.842
Total Gross/Weapon System Cost					190.627			16.338			12.107			24.842			-			24.842

LI AA0270 - Utility/Cargo Airplane Mods Army

UNCLASSIFIED
Page 1 of 6

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Arm	ny	Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft

AA0270 - Utility/Cargo Airplane Mods

ID Code (A=Service Ready	, B=Not Service Rea	dy) :				Program	Element	s for Cod	e B Items	s:			Oth	er Related	d Progran	n Eleme	nts:			
				FY 2014			FY 2015			FY 2016			FY 2017		То	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	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 Cost (\$ M)
Utility/Cargo Airplane Mods - 0000	P3A		-	-	28.897	-	-	15.167	-	-	22.612	-	-	23.833	-	-	0.000	-	-	334.423
Total Gross/Weapon System Cost					28.897			15.167			22.612			23.833			0.000			334.423

\*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.

#### Justification:

FY13 Base procurement dollars in the amount of \$24.842 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.

FY13 procurement dollars of \$3.000 million are linked to RDT&E PE 0203744A Project D18 - FY13 RDT&E dollars are \$0.979 million.

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0270 - Utility/Cargo Airplane Mods	Modification Nomenclature (Modification Title, Modification Number): Utility/Cargo Airplane Mods - 0000
Models of Systems Affected: All series Army fixed Type	Modification: Rationalization, Standardization,	Related RDT&E PEs:

wing aircraft Interoperability, Compatibility, Simplification

			<b>,</b>		<i>,</i> ,							
	Prior			FY 2013		FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	190.627	16.338	12.107	24.842	-	24.842	28.897	15.167	22.612	23.833	0.000	334.423
/The fe	llowing Doorwoo	Cumamaanumu	ara far informa	tional numaca	only The serve	oon on dina huda		doorwoontod ol	acubara l	•	•	

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

The budget line updates and modernizes all series Army fixed wing aircraft such as C-31A, UV-18, UV-20, CE-182, CE-208, O-2, T-34, U-21, B-300, King Air 350, C-12, RC-12, UC-35, C-23, C-26, C-37, C-20 and EO-5 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.

FY13 Base procurement dollars in the amount of \$24.842 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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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0270 - Utility/Cargo Airplane Mods (Modification Title, Modification Number): Utility/Cargo Airplane Mods - 0000 Models of Systems Affected: All series Army fixed Type Modification: Rationalization, Standardization, Related RDT&E PEs: Interoperability, Compatibility, Simplification wing aircraft **Prior Years** FY 2011 FY 2012 **FY 2013 Base** FY 2013 OCO FY 2013 Total Qty **Total Cost Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Financial Plan** (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) **Procurement** Fixed Wing Aircraft Modification and Upgrade (1) A Kits Recurring 169 133.339 21 11.337 11 8.375 23 17.289 0.000 23 17.289 Installation Kits 0.100 0.100 0 0.100 0.100 0 0.000 0 0.100 Data 133.439 11.437 8.475 17.389 0.000 17.389 Subtotal Recurring 23 Total, Fixed Wing Aircraft Modification and Upgrade 169 133.439 21 11.437 11 8.475 23 17.389 0 0.000 17.389 Total. All Modifications 133.439 11.437 8.475 17.389 0.000 17.389 Procurement Cost (Procurement + Support) 133.439 11.437 8.475 17.389 0.000 17.389 57.188 4.901 3.632 7.453 0.000 7.453 Total Installation Cost 190.627 16.338 12.107 24.842 0.000 24.842 Total Cost (Procurement + Support + Installation)

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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
Procurement												
Fixed Wing Aircraft Modification and Upgrade (1)												
A Kits												
Recurring		_										
Installation Kits	19	20.128	26	10.517	25	15.728	25	16.583	0	0.000	319	233.29
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.80
Subtotal Recurring		20.228		10.617		15.828		16.683		0.000		234.09
Total, Fixed Wing Aircraft Modification and Upgrade	19	20.228	26	10.617	25	15.828	25	16.683	0	0.000	319	234.09
Total, All Modifications		20.228		10.617		15.828		16.683		0.000		234.09
Procurement Cost (Procurement + Support)		20.228		10.617		15.828		16.683		0.000		234.09
Total Installation Cost		8.669		4.550		6.784		7.150		0.000		100.32
Total Cost (Procurement + Support + Installation)		28.897		15.167		22.612		23.833		0.000		334.42

LI AA0270 - Utility/Cargo Airplane Mods Army

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Exhibit P-3A, Individual Modification: PB 2013 Army	,			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activi 2031A / BA 2 / BSA 10	ty:	P-1 Line Item Nomenclature: AA0270 - Utility/Cargo Airplane Mods		Modification Nomenclature (Modification Title, Modification Number): Utility/Cargo Airplane Mods - 0000
Models of Systems Affected: All series Army fixed wing aircraft	• •	Modification: Rationalization, Standardization, perability, Compatibility, Simplification	Related RDT	&E PEs:

#### Remarks:

<sup>(1)</sup>This effort will modernize Fixed Wing aircraft communications, navigation, surveillance (CNS), safety equipment, and engines to current and future international requirements, enhance fleet standardization, allow worldwide deployments and continued safe operations in the 21st Century. As currently equipped, the aircraft will not be suitable for worldwide deployment nor capable of using modern navigation and air traffic control facilities. Equipment included in this upgrade: Terrain Awareness Warning System, APX 119/123, Mode S/5 upgrade, Satellite Communications (SATCOM), Traffic Alert Collision Avoidance System II, High Frequency Radios, ARC-210/231, Weather Radars, Data Link Capability, ADSB-Out, M-Code GPS, TA-24 Secure Global Positioning System, Wide Area Augmentation System/Localizer Performance with Vertical Guidance (WAAS/LPV), and other commercial and military CNS equipment. Kit and installation unit costs vary year to year based on the aircraft they are installed on.

Manufacturer Information	on: Fixed Wing Aircraft Mo	dification and Upgrade					
Manufacturer Name: Mul	tiple Commercial Lenders			Manufacturer Location: T	BD		
Administrative Leadtime	(in Months): 2			Production Leadtime (in	Months): 6		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Dec 2010	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates	May 2011	May 2012	May 2013	May 2014	May 2015	May 2016	May 2017

Installation: Fixed Wing Aircraft Modification and Upgrade	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 2013	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	169	57.188	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	21	4.901	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	11	3.632	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	23	7.453	0	0.000	23	7.453
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	169	57.188	21	4.901	11	3.632	23	7.453	0	0.000	23	7.453

	FY 2	FY 2014		.015	FY 2	2016	FY 2	2017	To Cor	nplete	To	tal
Installation Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	169	57.188

LI AA0270 - Utility/Cargo Airplane Mods Army

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0270 - Utility/Cargo Airplane Mods (Modification Title, Modification Number): Utility/Cargo Airplane Mods - 0000 Type Modification: Rationalization, Standardization, Related RDT&E PEs: Models of Systems Affected: All series Army fixed

wing aircraft Interoperability, Compatibility, Simplification

Installation: Fixed Wing Aircraft Modification and Upgrade	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	21	4.901
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	11	3.632
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	7.453
FY 2014	19	8.669	0	0.000	0	0.000	0	0.000	0	0.000	19	8.669
FY 2015	0	0.000	26	4.550	0	0.000	0	0.000	0	0.000	26	4.550
FY 2016	0	0.000	0	0.000	25	6.784	0	0.000	0	0.000	25	6.784
FY 2017	0	0.000	0	0.000	0	0.000	25	7.150	0	0.000	25	7.150
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	19	8.669	26	4.550	25	6.784	25	7.150	0	0.000	319	100.327

### Installation Schedule

1110000																															
		FY 2011 FY 2012						FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017						
	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	169	0	0	0	21	0	0	6	5	4	5	7	7	4	5	5	5	5	9	9	3	5	5	6	9	5	5	6	9	0	319
Out	151	18	0	0	C	21	0	0	6	5	4	5	7	7	4	5	5	5	5	9	9	3	5	5	6	9	5	5	6	9	319

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0560 - Aircraft Long Range Mods

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:

l	Other	Related	<b>Program</b>	Elements:
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									_			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	21.032	0.814	-	-	-	-	-	-	-	-	0.000	21.846
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	21.032	0.814	-	-	-	-	-	-	-	-	0.000	21.846
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	21.032	0.814	-	-	-	-	-	-	-	-	0.000	21.846
(The follo	wing Resource	Summary rows	are for informa	ational purposes	s only. The corre	esponding budg	et requests are	documented el	lsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
	+	+	+	+	+	+	+	+	+	+	+	

## **Description:**

The budget line updates and modernizes the C-20F, C-20E, C-37A and C-37B fixed wing aircraft, including communications and navigation equipment, and displays, enhancing the aircraft's capability for worldwide deployments. These aircraft support the Army's executive flight detachment at the three star and above level with required communications equipment.

Seco	ndary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	0.814	-	-	-	-

#### Justification:

No FY13 Base procurement dollars.

Gross/Weapon System Unit Cost (\$ in Thousands)

**UNCLASSIFIED** 

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0480 - Utility Helicopter Mods

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	1
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
(The follo	owing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

Flyaway Unit Cost (\$ in Thousands)

Gross/Weapon System Unit Cost (\$ in Thousands)

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.

834.156

437.105

Item Sche	edule		F	Prior Yea	rs		FY 2011			FY 2012		FY	′ 2013 Ba	ase	FY	2013 O	CO	FY	2013 To	otal
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 (\$ K)	Qty (Each)	Total Cost
UH-60L to UH-60L Conversion - 0000	P3A		-	-	1,119.322	-	-	128.460	-	-	74.745	-	-	73.804	-	-	-	-	-	73.804
Total Gross/Weapon System Cost					1,119.322			128.460			74.745			73.804			-			73.804
				FY 2014			FY 2015	i		FY 2016			FY 2017	ı	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
UH-60L to UH-60L Conversion - 0000	P3A		-	-	74.095	-	-	77.214	-	-	89.066	-	-	117.494	-	-	-	-	-	-
Total Gross/Weapon					74.095			77.214			89.066			117.494			-			1 -

\*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.

Justification:

System Cost

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Continuing Continuing

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Exhibit P-40, Budget Item Justification Sho	eet: PB 2013 Army		Date: Fe	ebruary 2012
Appropriation / Budget Activity / Budget S 2031A : Aircraft Procurement, Army / BA 2 : Modification Of Aircraft		P-1 Line Item Nome AA0480 - Utility Heli		
D Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code E	B Items:	Other Related Program Ele	ements:
FY 13 Base procurement dollars in the amount of \$73. modification that reduces the risk of a post-crash fire. program.				
In accordance with section 1815 of the FY 2008 Nation defense missions, domestic emergency responses and		his item is necessary for use I	y the active and reserve components of	of the Armed Forces for homeland

LI AA0480 - Utility Helicopter Mods Army

Exhibit P-3A, Individual Modification: P	B 2013 Arn	ny							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budge 2031A / BA 2 / BSA 10	et Sub Acti	vity:	<b>P-1 Line I</b> AA0480 -	tem Nome Utility Helic		s			(Modificat		nclature Modification Conversion	•
Models of Systems Affected: UH-60L		Type I	/lodificatio	n: Operati	onal		Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,119.322	128.460	74.745	73.804	-	73.804	74.095	77.214	89.066	117.494	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												

Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK and the UH-72A LAKOTA helicopter.

LI AA0480 - Utility Helicopter Mods UNCLASSIFIED

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 **Modification Nomenclature** 

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A / BA 2 / BSA 10 AA0480 - Utility Helicopter Mods

(Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L	Type Modifica	ation: Ope	erational			Re	lated RD	T&E PEs	<b>::</b>			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Procurement												
Crashworthy External Fuel System (CEFS) (1)												
A Kits												
Recurring												
A-Kits (A/L)	803	45.400	28	2.700	76	5.400	53	3.767	0	0.000	53	3.76
A-Kits (GFE to Production)	32	2.700	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
A-Kits (GFE to SAR Acft)	10	0.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
B-kits	433	59.100	9	1.400	26	4.000	21	3.200	0	0.000	21	3.20
Support Equipment/Other	0	31.600	0	1.600	0	0.966	0	1.405	0	0.000	0	1.40
Subtotal Recurring		139.400		5.700		10.366		8.372		0.000		8.37
Total, Crashworthy External Fuel System (CEFS)	1,278	139.400	37	5.700	102	10.366	74	8.372	0	0.000	74	8.37
UH-60A to UH-60L Conversion (2)												,
A Kits						,						
Recurring						,						
other	38	94.500	47	73.530	43	53.165	42	53.506	0	0.000	42	53.50
Subtotal Recurring		94.500		73.530		53.165		53.506		0.000		53.50
NonRecurring										,		,
other	0	858.122	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		858.122		0.000		0.000		0.000		0.000		0.00
Total, UH-60A to UH-60L Conversion	38	952.622	47	73.530	43	53.165	42	53.506	0	0.000	42	53.50
UH-60L to UH-60L Conversion (3)												
A Kits												
Recurring												
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, UH-60L to UH-60L Conversion	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
External High Speed Hoist <sup>(4)</sup>												
A Kits												

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Exhibit P-3A, Individual Modification: PB 2013 Army								Date: F	February	2012		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10		<b>ne Item No</b> 0 - Utility H						(Modifi	ication Ti	l <b>omencla</b> itle, Modifi 60L Conv	ication N	•
Models of Systems Affected: UH-60L Typ	e Modifica	ation: Ope	erational			Re	lated RD	T&E PEs	<b>;</b> :			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Recurring										<u> </u>		
Other	0	0.000	0	0.000	31	10.014	36	11.126	0	0.000	36	11.126
Subtotal Recurring		0.000		0.000		10.014		11.126		0.000		11.120
Total, External High Speed Hoist	0	0.000	0	0.000	31	10.014	36	11.126	0	0.000	36	11.120
UH-60 SPONSON FLIR <sup>(5)</sup>										<u> </u>		J
A Kits												
Recurring												
A Kit	0	0.000	60	7.600	0	0.000	0	0.000	0	0.000	0	0.000
B Kit	20	19.300	60	36.120	0	0.000	0	0.000	0	0.000	0	0.000
Support Equipment	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Interim Contractor Support	0	0.000	0	2.610	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		21.100		46.330		0.000		0.000		0.000		0.000
Total, UH-60 SPONSON FLIR	20	21.100	120	46.330	0	0.000	0	0.000	0	0.000	0	0.000
Ballistic Protection Systems (BAPS) <sup>(6)</sup>				'		'		1				1
A Kits		-										
Recurring												
Other	0	0.000	72	2.500	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		0.000		2.500		0.000		0.000		0.000		0.000
Total, Ballistic Protection Systems (BAPS)	0	0.000	72	2.500	0	0.000	0	0.000	0	0.000	0	0.000
Total, All Modifications		1,113.122		128.060		73.545		73.004		0.000		73.004
Procurement Cost (Procurement + Support)		1,113.122		128.060		73.545		73.004		0.000		73.004
Total Installation Cost		6.200		0.400		1.200		0.800		0.000		0.800
Total Cost (Procurement + Support + Installation)		1,119.322		128.460		74.745		73.804		0.000		73.804
	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	mplete	То	tal
Financial Plan	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
Procurement	(Each)	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M)	(Each)	(\$ M )
Crashworthy External Fuel System (CEFS) (1)												
		_								-		

LI AA0480 - Utility Helicopter Mods Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012

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

2031A / BA 2 / BSA 10 AA0480 - Utility Helicopter Mods (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L	Type Modifica	ition: Ope	erational			Re	lated RD	T&E PEs	<b>s</b> :			
	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost						
A Kits												
Recurring												
A-Kits (A/L)	65	4.800	52	3.839	0	0.000	0	0.000	0	0.000	1,077	65.90
A-Kits (GFE to Production)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	32	2.70
A-Kits (GFE to SAR Acft)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	0.60
B-kits	22	3.400	18	2.718	0	0.000	0	0.000	0	0.000	529	73.81
Support Equipment/Other	0	1.263	0	0.751	0	0.000	0	0.000	0	0.000	0	37.58
Subtotal Recurring		9.463		7.308		0.000		0.000		0.000		180.60
Total, Crashworthy External Fuel System (CEFS)	87	9.463	70	7.308	0	0.000	0	0.000	0	0.000	1,648	180.60
UH-60A to UH-60L Conversion (2)												
A Kits												
Recurring												
other	33	42.742	43	56.616	0	0.000	0	0.000	0	0.000	246	374.05
Subtotal Recurring		42.742		56.616		0.000		0.000		0.000		374.05
NonRecurring												
other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	858.12
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		858.12
Total, UH-60A to UH-60L Conversion	33	42.742	43	56.616	0	0.000	0	0.000	0	0.000	246	1,232.18
UH-60L to UH-60L Conversion (3)												
A Kits												
Recurring												
Other	0	0.000	0	0.000	24	73.548	38	117.494	0	0.000	62	191.04
Subtotal Recurring		0.000		0.000		73.548		117.494		0.000		191.04
Total, UH-60L to UH-60L Conversion	0	0.000	0	0.000	24	73.548	38	117.494	0	0.000	62	191.04
External High Speed Hoist <sup>(4)</sup>												
A Kits												
Recurring												
Other	65	21.190	44	12.290	55	15.518	0	0.000	0	0.000	231	70.13

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0480 - Utility Helicopter Mods

Modification Nomenclature
(Modification Title, Modification Number):
UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total **Total Cost Total Cost** Total Cost Total Cost Total Cost **Total Cost** Qty Qty Qty Qty Qty Qty **Financial Plan** (Each) (\$ M) (Fach) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) 21.190 12.290 15.518 0.000 0.000 70.138 Subtotal Recurring 65 44 Total, External High Speed Hoist 21.190 12.290 55 15.518 0 0.000 0 0.000 231 70.138 UH-60 SPONSON FLIR (5) A Kits Recurring 0.000 0 0.000 0.000 0.000 0.000 60 7.600 A Kit 0 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 80 55.420 B Kit 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 1.800 Support Equipment 0.000 0.000 0 0.000 0.000 0 0.000 0 2.610 Interim Contractor Support 0.000 0.000 0.000 0.000 0.000 67.430 Subtotal Recurring Total, UH-60 SPONSON FLIR 0.000 0.000 0.000 0.000 0.000 140 67.430 Ballistic Protection Systems (BAPS) (6) A Kits Recurring Other 0.000 0.000 0 0.000 0.000 0.000 72 2.500 0.000 0.000 0.000 0.000 0.000 2.500 Subtotal Recurring 72 Total. Ballistic Protection Systems (BAPS) 0.000 0.000 0.000 0.000 0.000 2.500 73.395 89.066 117.494 1.743.900 76.214 0.000 Total. All Modifications 73.395 89.066 117.494 0.000 1,743.900 76.214 Procurement Cost (Procurement + Support) Total Installation Cost 0.700 1.000 0.000 0.000 0.000 10.300 74.095 77.214 89.066 117.494 0.000 1,754.200 Total Cost (Procurement + Support + Installation)

#### Remarks:

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<sup>(1)</sup> The Crashworthy External Fuel System (CEFS) is a safety modification that reduces the risk of a post-crash fire. The existing external fuel tanks were designed for self-deployment missions and do not meet current battlefield doctrine that requires these helicopters to fly long-range missions into hostile environments. CEFS is critical to the safety and survivability of UH-60 helicopters. The Army Aviation Safety Center assessed the risk associated with continued routine flight operations using the current non-crashworthy tanks as high.

<sup>(2)</sup> Expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/upgrade program. Leverages ongoing UH-60 A to A recapitalization to further bridge the gap to UH-60M fielding and further reduces the overall O&S cost and logistics footprint of the fleet. Also provides an enhanced warfighting capability through aircraft performance improvements, to include installation of the T700-701D engine, improved durability gearbox, upgraded flight controls, and 9,000 lb cargo hook.

Exhibit P-3A, Indiv	vidual Modification: P	B 2013 Army				Date: February 201	2
Appropriation / Bu 2031A / BA 2 / BSA	udget Activity / Budge \ 10	et Sub Activity:	P-1 Line Item No AA0480 - Utility F			Modification Nome (Modification Title, M UH-60L to UH-60L	Modification Number)
Models of System	s Affected: UH-60L	Туј	oe Modification: Ope	erational	Related R	DT&E PEs:	
fielding and further red T700-701D engine, in (4)Provides an enhand (5)FY13 OCO procure (6)Provides ballistic properties the provides pallistic properties are provided to the provided that	duces the overall O&S cost an approved durability gearbox, used warfighting capability with a 45 B-Kits.  Totection to the UH-60 fielded assengers and cargo are sustom small arms damage	and logistics footprint of ipgraded flight controls, the addition of the Ext If fleet through the use of ceptible to damage and	the fleet. Also provides an, and 9,000 lb cargo hook. ternal High Speed Hoist or of ballistic blanket or other	enhanced warfighting capable  1 UH-60A/L MEDEVAC aircra  1 similar protective device. Because	ility through aircraft perfo ft. ause of low altitude and l	recapitalization to further bri rmance improvements, to incl ow airspeed tactical flight pro- ded to protect crews, passen	ude installation of the files, Black Hawk
	ion: Crashworthy External	Fuel System (CEFS)					
	bertson Fuel Systems, LLC			Manufacturer Location:	<u>'</u>		
Administrative Leadtime	<u> </u>			Production Leadtime (in	<del>'</del>		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates		Nov 2011					
Delivery Dates		Jan 2012					
	ion: UH-60A to UH-60L Cor	nversion					
	rpus Christi Army Depot				Corpus Christi Army Dep	ot	
Administrative Leadtime	, , , , , , , , , , , , , , , , , , ,			Production Leadtime (in	<del>'</del>		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Oct 2010	Oct 2011					
Delivery Dates	Oct 2011	Oct 2012					
	ion: UH-60L to UH-60L Cor	nversion		<u> </u>			
Manufacturer Name: Co					Corpus Christi Army Dep	ot	
Administrative Leadtime	<del>`</del>			Production Leadtime (in	<del></del>		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates						Oct 2015	
Delivery Dates						Oct 2016	
	ion: External High Speed F	łoist					
Manufacturer Name: Bro	· · · · · · · · · · · · · · · · · · ·			Manufacturer Location:			
Administrative Leadtime	<u> </u>			Production Leadtime (in	<del></del>		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates		May 2012					
Delivery Dates		Jun 2012					

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Exhibit P-3A, Indiv	vidual Modification: P	B 2013 Army							Da	<b>ite:</b> Febru	uary 2012		
Appropriation / Bu 2031A / BA 2 / BSA	udget Activity / Budge	t Sub Activity:		ine Item Noi 80 - Utility Ho					(M	odificatio	n Nomenc n Title, Mod JH-60L Cor	dification I	
Models of System	s Affected: UH-60L	-	Type Modifi	cation: Oper	rational			Relate	ed RDT&E	PEs:			
Manufacturer Informat	ion: UH-60 SPONSON FLIR	<u> </u>											
Manufacturer Name: FL	IR, Inc.				Manufa	acturer Loca	tion: Wilsonvi	lle, OR					
Administrative Leadtime	(in Months): 1				Produc	tion Leadtin	ne (in Months)	): 1					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	,	FY 20	16	FY 20	)17
Contract Dates	Sep 2011			Mar 2012									
Delivery Dates	Oct 2011			Apr 2012									
Manufacturer Informat	ion: Ballistic Protection Sy	stems (BAPS)	•		•						•		
Manufacturer Name: Pro	otective Group, Inc.				Manufa	acturer Loca	tion: Miami La	akes, FL					
Administrative Leadtime	(in Months): 1				Produc	tion Leadtin	ne (in Months)	): 1					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	;	FY 20	16	FY 20	)17
Contract Dates	Sep 2011												
	0 . 00												
Delivery Dates  Installation: Crashwort	Oct 2011 hy External Fuel System (CE	FS)	lethod of Imp	lementation: Va	arious			Installa	tion Name:		l l		
			Method of Imp	lementation: Va		FY 2	012	Installa FY 201		FY 201	13 OCO	FY 201	3 Total
			or Years  Total Cost	FY 201	11 Fotal Cost	FY 2  Qty (Each)	012  Total Cost (\$M)		3 Base Total Cost	FY 201 Qty (Each)	Total Cost	FY 201 Qty (Each)	3 Total  Total Cost  (\$ M)
Installation: Crashwort		Pri	or Years	FY 201 Qty (Each)	1	Qty	Total Cost	FY 201	3 Base	Qty	Total Cost (\$ M)	Qty	Total Cost (\$ M)
Installation: Crashwort		Pri	Total Cost	FY 201  Qty (Each)  28	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	FY 201 Qty (Each)	3 Base Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M ) 0.000	Qty (Each)	Total Cost (\$ M) 0.00
Installation: Crashwort Installation Cost All Prior Years		Pri	Total Cost (\$ M) 0 0.000	Qty (Each)         1           28         0	Total Cost (\$ M) 0.400	Qty (Each)	Total Cost (\$ M)	FY 201 Qty (Each)	3 Base Total Cost (\$ M) 0.000	Qty (Each)	Total Cost (\$ M ) 0.000	<b>Qty</b> (Each)	Total Cost (\$ M) 0.00
Installation: Crashwort Installation Cost All Prior Years FY 2011		Pri	Total Cost (\$ M)  0 0.000  0 0.000	T 201 Qty (Each) 28 0 0	(\$ M) 0.400 0.000	<b>Qty</b> ( <i>Each</i> ) 0 76	Total Cost (\$ M ) 0.000 1.200	FY 201  Qty (Each)  0	3 Base Total Cost (\$ M) 0.000 0.000	Qty (Each)	Total Cost (\$ M) 0.000 0.000	<b>Qty</b> ( <i>Each</i> ) 0	Total Cost (\$ M) 0.00 0.00
Installation: Crashwort Installation Cost All Prior Years FY 2011 FY 2012		Pri	Total Cost (\$ M ) 0 0.000 0 0.000 0 0.000	T   Qty   T   (Each)   T	11 (\$ M) 0.400 0.000 0.000	Qty (Each) 0 76	Total Cost (\$ M ) 0.000 1.200 0.000	FY 201  Qty (Each)  0  53	3 Base Total Cost (\$ M) 0.000 0.000 0.800	<b>Qty</b> (Each) 0 0	Total Cost (\$ M ) 0.000 0.000 0.000	<b>Qty</b> (Each) 0 0 53	Total Cost (\$ M) 0.00 0.00 0.80
Installation: Crashwort Installation Cost All Prior Years FY 2011 FY 2012 FY 2013		Pri	Total Cost (\$ M ) 0 0.000 0 0.000 0 0.000 0 0.000	FY 201 Qty T (Each) 28 0 0 0 0	(\$ M) 0.400 0.000 0.000 0.000	Qty (Each) 0 76 0	Total Cost (\$ M ) 0.000 1.200 0.000 0.000	FY 201  Qty (Each)  0  0  53	3 Base Total Cost (\$ M ) 0.000 0.000 0.800 0.000	Qty (Each)         0           0         0           0         0	Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000	Qty (Each) 0 0 0 53	Total Cost (\$ M) 0.00 0.00 0.80 0.00
Installation: Crashwort  Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016		Pri	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  0 0.000	FY 201   T	Total Cost (\$ M )  0.400  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)  0  76  0  0  0  0  0  0  0	Total Cost (\$ M ) 0.000 1.200 0.000 0.000 0.000 0.000	FY 201  Qty (Each)  0  0  53  0  0  0  0	3 Base  Total Cost (\$ M )  0.000  0.000  0.800  0.000  0.000  0.000  0.000  0.000	Otty (Each)  0 0 0 0 0 0 0 0 0	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)           0           0           53           0           0           0           0           0	Total Cost (\$ M) 0.00 0.00 0.80 0.00 0.00 0.00 0.00
Installation: Crashwort Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015		Pri Qty (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  0 0.000  0 0.000  0 0.000	FY 201 Qty T (Each)	Total Cost (\$ M)  0.400  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)  0  76  0  0  0  0  0  0  0	Total Cost (\$ M ) 0.000 1.200 0.000 0.000 0.000 0.000 0.000	FY 201  Qty (Each)  0  0  53  0  0  0  0  0	3 Base  Total Cost (\$ M)  0.000  0.000  0.800  0.000  0.000  0.000  0.000  0.000  0.000	Oty (Each)  0  0  0  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Qty (Each)           0           0           53           0           0           0           0           0           0           0           0	Total Cost (\$ M)  0.00  0.80  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Installation: Crashwort  Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 To Complete		Pri Qty (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  0 0.000  0 0.000  0 0.000  0 0.000  0 0.000  0 0.000	FY 201 Qty (Each)  28  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M)  0.400  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)  0  76  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M) 0.000 1.200 0.000 0.000 0.000 0.000 0.000 0.000	FY 201  Qty (Each)  0  0  53  0  0  0  0  0  0  0  0  0  0  0  0	3 Base Total Cost (\$M) 0.000 0.000 0.800 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Oty (Each)  0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Oty (Each) 0 0 53 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M)  0.00  0.00  0.80  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Installation: Crashwort  Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017		Pri Qty (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  0 0.000  0 0.000  0 0.000	FY 201 Qty (Each)  28  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M)  0.400  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)  0  76  0  0  0  0  0  0  0	Total Cost (\$ M ) 0.000 1.200 0.000 0.000 0.000 0.000 0.000	FY 201  Qty (Each)  0  0  53  0  0  0  0  0	3 Base  Total Cost (\$ M)  0.000  0.000  0.800  0.000  0.000  0.000  0.000  0.000  0.000	Oty (Each)  0  0  0  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)           0           0           53           0           0           0           0           0           0           0           0	Total Cost (\$ M)  0.00  0.80  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Installation: Crashwort  Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 To Complete		Pri Qty (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  0 0.000  0 0.000  0 0.000  0 0.000  0 0.000  0 0.000	FY 201 Qty (Each)  28  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M) 0.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Qty (Each)  0  76  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M )  0.000  1.200  0.000  0.000  0.000  0.000  0.000  0.000  1.200	FY 201  Qty (Each)  0  0  53  0  0  0  0  0  0  0  0  0  0  0  0	3 Base  Total Cost (\$ M )  0.000  0.000  0.800  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Otty (Each)  0  0  0  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Oty (Each) 0 0 53 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cost (\$ M)  0.00  0.80  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Installation: Crashwort  Installation Cost All Prior Years FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 To Complete		Pri Qty (Each)	Total Cost (\$ M )  0 0.000	FY 201  Qty (Each)  28  0  0  0  0  0  28  FY 201	Total Cost (\$ M) 0.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Qty (Each)  0  76  0  0  0  0  0  0  76  76	Total Cost (\$ M )  0.000  1.200  0.000  0.000  0.000  0.000  0.000  0.000  1.200	FY 201  Qty (Each)  0  0  53  0  0  0  0  53  53	3 Base  Total Cost (\$ M )  0.000  0.000  0.800  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Otty (Each)  0  0  0  0  0  0  0  0  0  0  0  0  0	Total Cost (\$ M)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000	Qty (Each)           0           0           53           0           0           0           0           0           0           53	Total Cost (\$ M)  0.00  0.80  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00

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P-1 Line #26

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0480 - Utility Helicopter Mods (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000 Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs: Installation: Crashworthy External Fuel System (CEFS) Method of Implementation: Various Installation Name: FY 2014 FY 2016 FY 2015 FY 2017 To Complete Total Qty **Total Cost** Installation Cost (Each) (\$ M) FY 2011 0.000 0.000 0.000 0.000 0.000 76 1.200 0 FY 2012 0 0.000 0.000 0 0.000 0.000 0 0.000 53 0.800 FY 2013 65 0.700 0 0.000 0 0.000 0 0.000 0 0.000 65 0.700 FY 2014 0 0.000 52 1.000 Ω 0.000 0.000 0 0.000 52 1.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Ω 0.000 0 0.000 0 0.000 807 6.200 To Complete 0.700 52 1.000 0.000 0.000 0.000 1,081 10.300 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 2 4 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 4 2 3 4 TC 1 3 1 3 1 Tot 807 7 7 19 19 13 13 13 16 16 17 13 13 13 13 0 0 0 0 0 0 0 0 0 1.081 In 19 19 14 16 7 7 19 19 19 19 13 13 13 14 16 16 16 17 13 13 13 13 0 0 0 0 0 0 0 Out 798 0 1,081 Installation: UH-60A to UH-60L Conversion Method of Implementation: Depot Installation Name: FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total **Prior Years** Qty Total Cost Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost Total Cost** Qty **Installation Cost** (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (Each) (Each) All Prior Years 0.000 0.000 0.000 0 0.000 0.000 0.000 0 0 0 0 FY 2011 0.000 0.000 0.000 0.000 0.000 0 0.000 0 FY 2012 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 0.000 0 0 0.000 0 0.000 0 0.000 0.000 FY 2014 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0.000 0.000 0 0 0 0.000 0 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 To Complete

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			OIV	CLASSIF	IED							
Exhibit P-3A, Individual Modification: PB 2013	Army							D	<b>ate:</b> Febru	ary 2012		
Appropriation / Budget Activity / Budget Sub A 2031A / BA 2 / BSA 10	Activity:			Nomenclat Helicopte				(/	Modificatio (1971)	n <b>Nomend</b> n <i>Title, Mo</i> JH-60L Co	dification	
Models of Systems Affected: UH-60L	Ту	pe Modifi	cation: O	perational			Relate	d RDT&E	E PEs:			
Installation: UH-60A to UH-60L Conversion	Me	thod of Imp	lementation	: Depot			Installat	ion Name:				
		Years	T	2011	FY 2	2012	FY 2013	Base	FY 201	13 OCO	FY 20	I3 Total
Installation Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Total	0	1 /	· ' '	,,,,	0	\ ' '	0	0.000		0.000	0	, , , , , , , , , , , , , , , , , , ,
	FY	2014	FY	2015	FY 2	2016	FY 2	017	To Co	mplete	To	otal
Installation Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
All Prior Years	( <i>Eacil</i> )	, , ,	· ' '	, , ,	(Eacri)	,, ,	( <i>Eacil</i> )	0.000	( <i>Each</i> )	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	( <i>Eacil</i> )	· · · /
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Installation Schedule			•									
FY 2011 FY 2012		FY 2013		FY 2014		FY 2015		FY 201	6	FY 20	17	
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 76 11 12 12 12 10 11 11	11 10	10 11	11 8	8 8	9 10	) 11 11	11	0 0	0 0	0 0	0 0	0 284
Out         66         10         11         12         12         12         10         11	11 11	10 10	11 11	8 8	8 9	9 10 11	11 1	1 0	0 0	0 0	0 0	0 284
Installation: UH-60L to UH-60L Conversion	Me	thod of Imp	lementation	: Depot			Installat	ion Name:				
	Prior	Years	FY	2011	FY 2	2012	FY 2013	Base	FY 201	13 OCO	FY 20	13 Total
Installation Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
All Prior Years	0		· · ·		0		0	0.000			0	· · ·
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0.000 0 0.000 0			
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0		0		+			0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0480 - Utility Helicopter Mods (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000 Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs: Installation: UH-60L to UH-60L Conversion Method of Implementation: Depot Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 OCO FY 2013 Base** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qtv **Total Cost** Qty **Total Cost** Qty Total Cost **Installation Cost** (Each) (\$ M) 0.000 0.000 FY 2014 0.000 0 0.000 0.000 0.000 0 0 FY 2015 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 Ω 0.000 0.000 O 0.000 0 0.000 To Complete Total 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2014 FY 2015 FY 2016 **FY 2017** To Complete Total **Total Cost Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Installation Cost (Each) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years 0.000 FY 2011 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 FY 2012 0.000 0.000 0.000 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 2013 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 n 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 To Complete Total 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 2 2 2 2 **APY** 1 4 1 2 4 1 3 4 1 4 1 2 3 4 1 2 4 1 3 4 TC Tot 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 6 6 6 6 9 9 10 62 In 0 10 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6 6 6 9 9 10 10 Out 62

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature**(*Modification Title, Modification Number*):

2031A / BA 2 / BSA 10

AA0480 - Utility Helicopter Mods

UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs:

Installation: External High Speed Hoist	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0480 - Utility Helicopter Mods

Modification Nomenclature
(Modification Title, Modification Number):
UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs:

Installation: External High Speed Hoist Method of Implementation: Various Installation Name:

### Installation Schedule

			FY:	2011			FY 2	2012			FY 2	013			FY 2	014			FY 2	015			FY 2	016			FY 2	017			
	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	-	0	0	0	0	7	8	8	8	9	9	9	9	16	16	16	17	11	11	11	11	13	14	14	14	0	0	0	0	0	231
Out	-	0	0	0	0	0	7	8	8	8	9	9	9	9	16	16	16	17	11	11	11	11	13	14	14	14	0	0	0	0	231

Installation: UH-60 SPONSON FLIR	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	20	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	15	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	20	0.000	0	0.000	15	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	20	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AA0480 - Utility Helicopter Mods Army

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															ONC	JLAS	JJII	ILD														
Exhil	bit P-	3A, Ir	divi	dual I	Mod	lificat	ion	: PB	2013	3 Arr	my														ate: F	ebru	uary	2012				
		ation / A 2 / E			ctiv	/ity / I	Bud	dget	Sub	Act	ivity:		<b>P-1 L</b> AA04		-	-		-	3		_			(/	Modific	catio	n Tit	omeno le, Mo OL Co	dific	ation		
Mode	els of	Syst	ems	Affec	ted	: UH-	60L	_			T	ype N	/lodific	catio	n: Op	eratio	onal					Rel	ated	RDT&	E PEs	:						
Install	lation:	UH-60	SPON	ISONI	I IR						М	ethod	of Impl	oment	ation	Variou	ıe					Ineta	allatio	n Name:								
motan		011 00	0, 0,	100111								2014	Oi iiiipi			2015	10		FY 20	016			Y 201		1	To Co	mple	te		— <u> </u>	otal	
											Qty		al Cost	Q	ty	Total	Cost	Qty		Total C	Cost	Qty		otal Cost	Qt		<del>.</del>	al Cost	- (	Qty		al Cost
	lation (	Cost								-	(Each)	0	\$ M ) 0.000	(Ea	och)	(\$ N	<i>M)</i>	(Eac	h) 0	(\$ M	0.000	(Each)	0	(\$ M )	(Ea	ch)		\$ M ) 0.000	(E	Each)	<del>+ ·</del>	\$ M )
FY 20										-		0	0.000		0		0.000		0		0.000		0	0.000				0.000				0.000
Total	mplete	!										0	0.000		0		0.000		0		0.000		0	0.000				0.000		35		0.000
	lation	Schedu	ıle																													
			FY 2	2011			ı	FY 20	012			FY 2	2013			FY 2	014			FY	2015			FY 20	16			FY 20	17			
	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	20	15	15	15	1	5 (	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	08
Out	15	5	15	15	1	5 1	5	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0	0	0	0	0	0	0	0	0	0	80
Install	lation:	Ballisti	c Prote	ection S	Svste	ems (BA	APS)	)			М	ethod	of Impl	ement	ation:	: Variou	ıs					Insta	allatio	n Name:	<u> </u>							
					,	- (	-,	,				r Year			FY 2				FY 20	012			2013 B		_	Y 20	13 OC	ю		FY 20	13 Tof	tal
Install	lation (	Cost									Qty (Each)		al Cost	Q (Ea		Total (		Qty (Eac		Total C		Qty (Each)	Т	otal Cost	Qt (Ea			al Cost		<b>Qty</b> Each)		al Cost
All Pric	or Year	rs									. ,	0	0.000	, ,	0	· ·	0.000	,	0		0.000	( /	0	0.000	+ '-	0		0.000		C		0.000
FY 20	11											0	0.000		0		0.000		0		0.000		0	0.000	)	C		0.000		C	)	0.000
FY 20	12											0	0.000		0		0.000		0		0.000		0	0.000	)	C	)	0.000		C	)	0.000
FY 20	13											0	0.000		0		0.000		0		0.000		0	0.000	)	C	)	0.000		С	)	0.000
FY 20	14											0	0.000		0		0.000		0		0.000		0	0.000	)	C	)	0.000		С	)	0.000
FY 20	15											0	0.000		0		0.000		0		0.000		0	0.000	)	C	)	0.000		C	)	0.000
FY 20	16											0	0.000		0		0.000		0		0.000		0	0.000	)	C	)	0.000		0	)	0.000
FY 20	17											0	0.000		0		0.000		0		0.000		0	0.000		C		0.000		C		0.000
To Co	mplete	!										0	0.000		0		0.000		0		0.000		0	0.000		C		0.000		C		0.000
Total												0	0.000		0		0.000		0		0.000		0	0.000	0	C	)	0.000			ס	0.000
											FY	2014			FY 2	2015			FY 20	016		F	Y 201	7	1	Го Со	mple	te		T <sub>i</sub>	otal	
Install	lation (	Cost									Qty (Each)		al Cost	Q (Ea		Total (		Qty (Eac		Total C		Qty (Each)	Т	otal Cost	Qt (Ea	y	Tot	al Cost		Qty Each)		al Cost
All Pric	or Year	rs										0 '	0.000	, _,	0	_	0.000	,	0		0.000	( 339	0	0.000	,	C		0.000		0		0.000
FY 20	11											0	0.000		0		0.000		0		0.000		0	0.000	)	C		0.000		C	,	0.000
		1 14:1:4														רו אכ	) O I E															

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0480 - Utility Helicopter Mods

(Modification Title, Modification Number):
UH-60L to UH-60L Conversion - 0000

Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs:

Installation: Ballistic Protection Systems (BAPS)	Me	thod of Impl	ementation:	Various			Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	mplete	To	otal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	201	1		_	FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	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	-	18	18	3	18	18	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	72
Out	-	0	18	3	18	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

Modification Of Aircraft

AZ2200 - KIOWA WARRIOR

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	130	9	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing
(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

The OH-58D 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 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.

Item Sche	dule		Р	rior Year	's		FY 2011			FY 2012		FY	′ 2013 Ba	ase	FY	′ 2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Kiowa Warrior Modification Programs - several	P3A		-	-	752.218	-	-	202.437	-	-	92.552	-	-	192.484	-	-	-	-	-	192.484
Total Gross/Weapon System Cost					752.218			202.437			92.552			192.484			-			192.484
				FY 2014			FY 2015			FY 2016			FY 2017		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Kiowa Warrior Modification Programs - several	P3A		-	-	341.871	-	-	485.709	-	-	577.703	-	-	536.035	-	-	-	-	-	-
Total Gross/Weapon System Cost					341.871			485.709			577.703			536.035			-			-

\*ttem 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.

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Exhibit P-40, Budget Item Justification She	et: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Su 2031A : Aircraft Procurement, Army / BA 2 : M Modification Of Aircraft		P-1 Line Item N AZ2200 - KIOW	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code I	3 Items:	Other Related Program Elements:
Justification: FY 2013 Base Funding in the amount of \$192.484 Millio Reduction and Fielded Fleet Upgrade programs for the reconnaissance, aviation platform until replaced/retired.	fielded fleet of OH-58D(R) aircraft (\$69.791 M	Program (CASUP) (OH-Radillion). CASUP modific	58F) long-lead and Recap components (\$122.693 Million), and continue Weight ations will allow the Kiowa Warrior to safely serve as the Army's, armed-
All COMPO 1 Active			

LI AZ2200 - KIOWA WARRIOR
Army

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AZ2200 - KIOWA WARRIOR	Modification Nomenclature (Modification Title, Modification Number): Kiowa Warrior Modification Programs - several

Models of Systems Affected: OH-58D, 0	DH-58F	Type I	Modification	<b>on:</b> Operati	onal/Safety	y	Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	752.218	202.437	92.552	192.484	-	192.484	341.871	485.709	577.703	536.035	Continuing	Continuing

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

The Safety Enhancement Program (SEP) (OSIP 2-97-01-0115) completed in September 2011. SEP addressed safety issues that enable Kiowa Warrior performance as a digitized platform capable of integrated combat engagement via the Tactical Internet. Rolls Royce M250-C30R/3 Engines with Full Authority Digital Electronic Control increase reliability, control responsiveness, and overcome a rotor droop anomaly by providing faster response time to power demands. Engine barrier filters improve engine reliability by reducing damage from sand/dust ingestion and by increasing engine meantime between overhaul. The Improved Master Controller Processor Unit (IMCPU) increases memory and throughput and reduces both aircraft empty weight and Operating and Support (O&S) costs. The IMCPU accommodates upgraded software required for digital communications and provides the Variable Message Format (VMF). Energy attenuating seats provide crew safety in case of vertical and horizontal impacts. Cockpit airbags increase crew protection. The SEP modification converts the OH-58D(I) aircraft with Control and Display Subsystem version 2 (CDS2) into OH-58(R) aircraft equipped with CDS version 4 (CDS4).

The Fielded Fleet Upgrades and Weight Reduction initiative (OSIP 2-02-01-0116) addresses safety and mission effectiveness of the OH-58D(R) fleet. The safety of the crew depends to a large extent on the maneuverability and performance of the aircraft. Due to its current MEP weight, the Kiowa Warrior has an existing operational safety deficiency for autorotational capability. The Weight Reduction modifications will improve the margin of safety, provide increased power margins, and include the following initiatives: lightweight multi-function displays, a lighter weight and better positioned common transponder, reduced weight HELLFIRE launchers, a lightweight composite Universal Weapons Pylon, improved lightweight heater system, and improved armor panels. Mission effectiveness and other safety upgrades include: fielding lightweight floor armor, improving reliability of the engine's current Full Authority Digital Electronic Controller (FADEC), improved .50 cal machine gun, the AN/AAR-57 Common Missile Warning System (CMWS), Level 2 Manned-Unmanned (L2MUM) Teaming (moved from OCO after FY 2011) and a Health Usage Monitoring System (HUMS).

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-58D(R) to the OH-58F configuration. Efforts include upgrading to Control and Display Subsystem, version 5 (CDS5), installing a second AN/ARC-231 SATCOM radio, 3rd multi-function display (MFD), Dual Channel Full Authority Digital Electronic Control (FADEC), integrated infrared, laser, and pulse radar warning systems, armament enhancements, replacing the Mast Mounted Site (MMS) system with a nose-mounted sensor, and other weight and obsolescence reduction upgrades. The current fleet of 329 aircraft is planned to be modified as well as all aircraft built to replace wartime losses, for a total modification run of 368 aircraft. Six aircraft in the current fleet are planned to be modified with RDTE funding and will be fielded following the test program. Trainers 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. Numerous CASUP components deliver more than 12 months after procurement; therefore, components to support CASUP LRIP Lot 1 production which starts in FY 2015 must be procured in FY 2013. Items with lead times of greater than 12 months include nose sensor mount assemblies, landing gear, transmission mount structures, AAS-53 Common Sensor Payloads, and CDS5 Improved Master Controller Processors.

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Army

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Exhibit P-3A, Individual Modification: PB 2013 Arm	ny	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activ 2031A / BA 2 / BSA 10	vity: P-1 Line Item Nomenclature: AZ2200 - KIOWA WARRIOR	Modification Nomenclature (Modification Title, Modification Number): Kiowa Warrior Modification Programs - several
Models of Systems Affected: OH-58D, OH-58F	Type Modification: Operational/Safety	Related RDT&E PEs:

OCO funding will procure Wartime Replacement Aircraft (WRA) (OSIP 2-10-01-0118) for those lost during Overseas Contingency Operations. These aircraft will be built using the "cabin" method and not procured as a complete aircraft from the original equipment manufacturer (Bell Helicopter). The Army will use divested OH-58A aircraft as donors to create the OH-58D. Specifically, the donor OH-58A aircraft will be de-populated and their center sections (cabins) will be modified at Bell Helicopter / Textron Industries (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 (zero-timed) OH-58D cabins. Once new 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) 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.

FY 2010 & 2011 OCO funding will procure level II Manned-Unmanned (L2MUM) Teaming (OSIP 2-10-01-0119) capability for the Kiowa Warrior. An Urgent Operational Needs Statement was approved on 5 Oct 2009 with approval to equip 180 aircraft with the L2MUM capability. System is divided into an A/B-kit configuration. Funding requested includes B-kits for 180 aircraft, A kits for the entire Kiowa Warrior fleet and initial spares. The system will initially be fielded to the OH-58D(R) fleet, and further integrated into the OH-58F aircraft once that modification is complete. The KW L2MUM system provides an advanced video networking capability that will significantly reduce sensor to shooter timelines by enabling both pilots and soldiers on the ground to see and share Kiowa Warrior Mast-Mounted Sight (MMS) video, Apache sensor video, and Unmanned Aerial System (UAS) video in near-real-time. The KW L2MUM system is comparable to the Apache MUMT-2 system and will be fully interoperable with Apache, Raven, Shadow, Gray Eagle, Predator, and many other DoD manned and unmanned platforms. In FY 2012 funding for L2MUM will revert to base and this program will become part of Fielded Fleet Upgrades and Weight Reduction program.

The Recapitalization Program (OSIP 2-11-01-0121) addresses critical reliability, maintainability and availability issues associated with the continued aging of the KW fleet. It procures new airframe and dynamic system components that will be installed on aircraft inducted into the KW CASUP production line. Efforts include production of new metal cabins (including new wiring harnesses) manufactured by Bell Helicopter Textron, Inc. and a rotable pool of new dynamic system components that allows salvaged components to be returned to the DoD supply system for Overhaul/Recapitalization. The Recapitalization Program in combination with the KW CASUP results in production of zero-timed OH-58F aircraft and eliminates post production structural overhauls that would be needed to extend the life of the KW fleet beyond 2025.

Development	Status/Major Development Milestones	
Date	Title	Description
Dec 2010	CASUP Milestone B	
Feb 2015	CASUP Milestone C	
Aug 2016	CASUP First Unit Equipped (FUE)	

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Army

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	e Modification: Operational/Safety					Related RDT&E PEs:						
	Prior	Prior Years		FY 2011		FY 2012		3 Base	FY 201	3 ОСО	FY 201	3 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 Cos	
Procurement							,	'		1			
Safety Enhancement Program (SEP) (1)													
A Kits													
Recurring													
Recurring - Bell Helicopter	371	203.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Engineering Change Orders	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Aircraft Preparation	0	16.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Fielding	0	7.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Training/Training Devices	0	9.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Other	0	23.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Technical Support	0	7.352	0	0.147	0	0.000	0	0.000	0	0.000	0	0.0	
Subtotal Recurring		268.452		0.147		0.000		0.000		0.000		0.0	
NonRecurring												,	
Nonrecurring	0	54.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Subtotal NonRecurring		54.200		0.000		0.000		0.000		0.000		0.0	
B Kits												,	
Recurring													
Government-Furnished Equipment	0	155.000	0	2.585	0	0.000	0	0.000	0	0.000	0	0.0	
Subtotal Recurring		155.000		2.585		0.000		0.000		0.000		0.0	
Total, Safety Enhancement Program (SEP)	371	477.652	0	2.732	0	0.000	0	0.000	0	0.000	0	0.0	
Fielded Fleet Upgrades and Weight Reduction <sup>(2)</sup>													
A Kits													
Recurring													
Recurring Labor	0	2.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Data/Pubs/Manuals	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0	
Support Equipment	0	10.300	0	0.086	0	4.299	0	8.100	0	0.000	0	8.1	
Other	0	17.300	0	12.051	0	0.236	0	6.245	0	0.000	0	6.2	

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Exhibit P-3A, Individual Modification: PB 2013 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A / BA 2 / BSA 10AZ2200 - KIOWA WARRIOR(Modification Title, Modification Number):<br/>Kiowa Warrior Modification Programs -<br/>several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ation: Ope	erational	/Safety		Re	lated RD	T&E PE	<b>S</b> :			
	Prior	Prior Years		2011	FY 2012		FY 2013 Base		FY 2013 OCO		FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Fielding	0	2.431	0	0.926	0	0.000	0	0.000	0	0.000	0	0.0
Training/Training Devices	0	7.800	0	0.000	0	2.080	0	0.000	0	0.000	0	0.0
Subtotal Recurring		42.731		13.063		6.615		14.345		0.000		14.3
NonRecurring												,
Nonrecurring	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal NonRecurring		1.200		0.000		0.000		0.000		0.000		0.0
B Kits				'		'		'				
Recurring												
Hardware	0	126.300	0	26.264	0	83.471	0	54.542	0	0.000	0	54.5
Subtotal Recurring		126.300		26.264		83.471		54.542		0.000		54.5
Total, Fielded Fleet Upgrades and Weight Reduction	0	170.231	0	39.327	0	90.086	0	68.887	0	0.000	0	68.8
Level II Manned-Unmanned (L2MUM) Teaming (3)												,
A Kits												
Recurring												
A-Kits	91	1.500	286	10.575	0	0.000	0	0.000	0	0.000	0	0.0
PrePlanned Product Improvement (P3I)	0	0.000	0	11.323	0	0.000	0	0.000	0	0.000	0	0.0
Fielding/ICS	0	0.000	0	5.047	0	0.000	0	0.000	0	0.000	0	0.00
Program Management	0	0.235	0	0.245	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		1.735		27.190		0.000		0.000		0.000		0.00
B Kits												,
Recurring												
B-Kits	90	22.118	90	19.350	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		22.118		19.350		0.000		0.000		0.000		0.0
Total, Level II Manned-Unmanned (L2MUM) Teaming	181	23.853	376	46.540	0	0.000	0	0.000	0	0.000	0	0.00
Wartime Replacement Aircraft (WRA) (4)								1		'		
A Kits										,		
Recurring												-

LI AZ2200 - KIOWA WARRIOR Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ation: Ope	erational	/Safety	Related RDT&E PEs:							
	Prior	Years	FY:	2011	FY 2	2012	FY 2013 Base		FY 2013 OCO		FY 201	3 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
AC Modification Quantity	6	0.000	9	0.000	0	0.000	0	0.000	0	0.000	0	0.00
BHTI Cabin Mod/New Metal Cabins	0	30.401	0	32.441	0	0.000	0	0.000	0	0.000	0	0.00
GFE/Hardware	0	28.255	0	48.075	0	0.000	0	0.000	0	0.000	0	0.00
CCAD Labor/Material	0	8.462	0	11.291	0	0.000	0	0.000	0	0.000	0	0.00
Program Support - Govt	0	3.117	0	3.783	0	0.000	0	0.000	0	0.000	0	0.00
ECP	0	0.000	0	15.500	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		70.235		111.090		0.000		0.000		0.000		0.00
Total, Wartime Replacement Aircraft (WRA)	6	70.235	9	111.090	0	0.000	0	0.000	0	0.000	0	0.00
Cockpit And Sensor Upgrade Program (CASUP) (5)												
A Kits												
Recurring												
Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Training Devices / NET	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Post Deployment Software Supt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Cockpit And Sensor Upgrade Program (CASUP)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
OH-58F CASUP Long Lead <sup>(6)</sup>												
A Kits												
Recurring												
CDS5 A-Kits	0	0.000	0	0.000	0	0.000	35	14.203	0	0.000	35	14.20
BHTI A-Kits	0	0.000	0	0.000	0	0.000	35	10.239	0	0.000	35	10.23
Tooling	0	0.000	0	0.000	0	0.000	0	7.951	0	0.000	0	7.95
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AZ2200 - KIOWA WARRIOR Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A / BA 2 / BSA 10AZ2200 - KIOWA WARRIOR(Modification Title, Modification Number):Kiowa Warrior Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ation: Ope	erational	/Safety		Re	lated RD	T&E PE	s:			
	Prior	Prior Years		2011	FY 2012		FY 2013 Base		FY 2013 OCO		FY 201	3 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)
Training Devices	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Engineering Support	0	0.000	0	0.000	0	0.000	0	3.283	0	0.000	0	3.283
PMO	0	0.000	0	0.000	0	0.000	0	2.568	0	0.000	0	2.568
Subtotal Recurring		0.000		0.000		0.000		38.244		0.000		38.244
B Kits												
Recurring												
NMS B-Kits	0	0.000	0	0.000	0	0.000	35	28.150	0	0.000	35	28.150
New IMCPU B-Kits	0	0.000	0	0.000	0	0.000	35	10.515	0	0.000	35	10.515
Other B-Kits	0	0.000	0	0.000	0	0.000	13	8.565	0	0.000	13	8.565
Subtotal Recurring		0.000		0.000		0.000		47.230		0.000		47.230
Total, OH-58F CASUP Long Lead	0	0.000	0	0.000	0	0.000	153	85.474	0	0.000	153	85.474
OH-58F CASUP Recapitalization <sup>(7)</sup>												
A Kits												
Recurring												
OH-58F Cabin Recurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.000
NonRecurring												
OH-58F Cabin Tooling	0	0.000	0	0.000	0	0.000	0	22.009	0	0.000	0	22.009
Subtotal NonRecurring		0.000		0.000		0.000		22.009		0.000		22.009
B Kits												
Recurring												
Recap Component Rotable Pool	0	0.000	0	0.000	0	0.000	9	15.210	0	0.000	9	15.210
Subtotal Recurring		0.000		0.000		0.000		15.210		0.000		15.210
Total, OH-58F CASUP Recapitalization	0	0.000	0	0.000	0	0.000	9	37.219	0	0.000	9	37.219
Total, All Modifications		741.971		199.689		90.086		191.580		0.000		191.580
Procurement Cost (Procurement + Support)		741.971		199.689		90.086		191.580		0.000		191.580
Total Installation Cost		10.247		2.748		2.466		0.904		0.000		0.904
Total Cost (Procurement + Support + Installation)		752.218		202.437		92.552		192.484		0.000		192.484

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P-1 Line #27

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	pe Modification: Operational/Safety					Related RDT&E PEs:						
	FY	FY 2014		FY 2015		FY 2016		2017	To Complete		То	tal	
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	Qty (Each)	Total Cos	
Procurement													
Safety Enhancement Program (SEP) (1)													
A Kits													
Recurring													
Recurring - Bell Helicopter	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	371	203.9	
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.8	
Aircraft Preparation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.3	
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.0	
Training/Training Devices	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.00	
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.1	
Technical Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.4	
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		268.5	
NonRecurring													
Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	54.20	
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		54.2	
B Kits													
Recurring		_										_	
Government-Furnished Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	157.58	
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		157.5	
Total, Safety Enhancement Program (SEP)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	371	480.3	
Fielded Fleet Upgrades and Weight Reduction (2)													
A Kits												_	
Recurring		-											
Recurring Labor	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.9	
Data/Pubs/Manuals	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.0	
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.7	
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	35.83	

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ition: Ope	erational.	/Safety		Re	lated RD	T&E PE	S:			
	FY 2	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cos (\$ M)						
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.3
Training/Training Devices	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.8
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		76.7
NonRecurring												
Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.20
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		1.2
B Kits												
Recurring												
Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	290.5
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		290.5
Total, Fielded Fleet Upgrades and Weight Reduction	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	368.5
Level II Manned-Unmanned (L2MUM) Teaming (3)												
A Kits												
Recurring												
A-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	377	12.07
PrePlanned Product Improvement (P3I)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	11.32
Fielding/ICS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.04
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.48
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		28.92
B Kits												
Recurring												
B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	180	41.46
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		41.4
Total, Level II Manned-Unmanned (L2MUM) Teaming	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	557	70.39
Wartime Replacement Aircraft (WRA) (4)												
A Kits												
Recurring												

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P-1 Line #27

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ation: Ope	erational	/Safety		Re	lated RD	T&E PE	s:			
	FY	2014	FY :	2015	FY 2	2016	FY 2	2017	To Co	nplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost						
AC Modification Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	0.00
BHTI Cabin Mod/New Metal Cabins	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	62.84
GFE/Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	76.33
CCAD Labor/Material	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	19.75
Program Support - Govt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.900
ECP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	15.500
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		181.325
Total, Wartime Replacement Aircraft (WRA)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	181.325
Cockpit And Sensor Upgrade Program (CASUP) (5)												
A Kits												
Recurring												
Hardware	0	0.000	27	40.055	55	38.193	76	37.669	210	9.566	368	125.483
Training Devices / NET	0	0.000	0	10.133	0	20.940	0	25.680	0	31.740	0	88.493
Support Equipment	0	0.000	0	2.475	0	2.523	0	1.578	0	1.059	0	7.635
Fielding	0	0.000	0	1.247	0	1.627	0	1.955	0	5.659	0	10.488
Post Deployment Software Supt	0	0.000	0	0.000	0	8.550	0	8.700	0	35.701	0	52.95°
Engineering Support	0	0.000	0	10.191	0	16.819	0	14.324	0	38.718	0	80.052
Program Management	0	0.000	0	7.973	0	9.910	0	7.900	0	18.467	0	44.250
Subtotal Recurring		0.000		72.074		98.562		97.806		140.910		409.352
Total, Cockpit And Sensor Upgrade Program (CASUP)	0	0.000	27	72.074	55	98.562	76	97.806	210	140.910	368	409.352
OH-58F CASUP Long Lead <sup>(6)</sup>												
A Kits												
Recurring												
CDS5 A-Kits	61	24.292	92	23.823	81	20.686	79	20.586	87	24.629	435	128.219
BHTI A-Kits	63	13.462	96	10.680	81	7.677	79	7.689	87	10.790	441	60.537
Tooling	0	8.086	0	0.000	0	0.000	0	0.000	0	0.000	0	16.037
Support Equipment	0	1.411	0	0.000	0	0.000	0	0.000	0	0.000	0	1.411

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P-1 Line #27

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F	Type Modifica	ation: Ope	erational	/Safety		Re	lated RD	T&E PE	s:			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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 )
Training Devices	0	12.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.000
Engineering Support	0	6.329	0	0.000	0	0.000	0	0.000	0	0.000	0	9.612
PMO	0	4.952	0	0.000	0	0.000	0	0.000	0	0.000	0	7.520
Subtotal Recurring		70.532		34.503		28.363		28.275		35.419		235.336
B Kits												
Recurring												
NMS B-Kits	61	50.213	92	78.365	81	70.148	79	69.614	87	76.933	435	373.423
New IMCPU B-Kits	38	22.053	0	0.000	0	0.000	0	0.000	0	0.000	73	32.568
Other B-Kits	45	31.437	88	58.570	89	47.862	81	38.553	127	55.486	443	240.473
Subtotal Recurring		103.703		136.935		118.010		108.167		132.419		646.464
Total, OH-58F CASUP Long Lead	268	174.235	368	171.438	332	146.373	318	136.442	388	167.838	1,827	881.800
OH-58F CASUP Recapitalization <sup>(7)</sup>												
A Kits												
Recurring												
OH-58F Cabin Recurring	18	62.792	51	195.243	71	262.139	68	245.094	94	330.130	302	1,095.398
Subtotal Recurring		62.792		195.243		262.139		245.094		330.130		1,095.398
NonRecurring												
OH-58F Cabin Tooling	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.009
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		22.009
B Kits												
Recurring												
Recap Component Rotable Pool	61	104.844	0	0.000	0	0.000	0	0.000	0	0.000	70	120.054
Subtotal Recurring		104.844		0.000		0.000		0.000		0.000		120.054
Total, OH-58F CASUP Recapitalization	79	167.636	51	195.243	71	262.139	68	245.094	94	330.130	372	1,237.46
Total, All Modifications		341.871		438.755		507.074		479.342		638.878		3,629.246
Procurement Cost (Procurement + Support)		341.871		438.755		507.074		479.342		638.878		3,629.246
Total Installation Cost		0.000		46.954		70.629		56.693		143.853		334.494
Total Cost (Procurement + Support + Installation)		341.871		485.709		577.703		536.035		782.731		3,963.740

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Exhibit P-3A, Indi	vidual Modification: P	B 2013 Army				Date: February 201	2
Appropriation / Bo 2031A / BA 2 / BSA	u <b>dget Activity / Budge</b> \ 10	t Sub Activity:	P-1 Line Item No AZ2200 - KIOWA			Modification Nome (Modification Title, M Kiowa Warrior Modification Several	Modification Number)
Models of System	s Affected: OH-58D, C	H-58F <b>Type</b>	Modification: Ope	rational/Safety	Related R	DT&E PEs:	
Remarks:		1			ı		
period; however, the installations on the co delivery in September	inal Safety Enhancement Pro ntractor's modification line wo 2011.	ogram (SEP) lot (lot 13) vere not priced separately	vas delivered over a 18 n from the fielded fleet ret	on the Bell Helicopter Textron nonth period. Some portions or ofits and therefore the dollars	f the SEP modification	were completed via field retrof	it. The block-modification
	pped/modified via field retrofi						
(3)The KW L2MUM sy platforms. First fielde	vstem is comparable to the Ap d unit is operating in theater.	pache MUM-2T system a	and will be fully interopera	able with Apache, Raven, Shad	low, Gray Eagle, Preda	tor, and many other DoD man	ned and unmanned
depopulation of an Ol	H-58A/C (A) model cabin; Ph	ase II (6 months) is struc	tural preparation of an 'A	government and industry team ' cabin; Phase III (12 months) is l; outputs reflect completion ar	s cabin build-up to the (	DH-58D configuration; and Ph	ase IV (6 months) is final
	serving as lead system integ	rator for Cockpit and Ser	nsor Upgrade Program (C	CASUP). Milestone B approved	d 21 December 2010		
(6)The government is	serving as lead system integ	rator for Cockpit and Ser	nsor Upgrade Program (C	CASUP). Milestone B approved	d 21 December 2010. P	rocurement awards listed refle	ect shipsets of long lead
components that will land harnesses) manufaction. The	oe installed on aircraft inducte ured by Bell Helicopter Textro	ed into the KW Cockpit a on, Inc. and a rotable poo	nd Sensor Upgrade Prog ol of new dynamic system	ssociated with the continued at ram (CASUP) production line. components that allows salvatiction of zero-timed OH-58F air	Efforts include product ged components to be	ion of new metal cabins (inclu- returned to the DoD supply sy	ding new wiring stem for Overhaul/
	ion: Safety Enhancement F	rogram (SEP)					
	II Helicopter Textron Incorpor			Manufacturer Location: Fo	ort Worth, TX		
Administrative Leadtime				Production Leadtime (in M	Months):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informat	ion: Fielded Fleet Upgrade	s and Weight Reduction	n	·		·	
Manufacturer Name: va	rious			Manufacturer Location: va	arious		
Administrative Leadtime	(in Months):			Production Leadtime (in N	Months):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informat	ion: Level II Manned-Unma	nned (L2MUM) Teaming	9				
Manufacturer Name: L-	3 Communications			Manufacturer Location: Sa	alt Lake City, UT		

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Army

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			5,101	LASSIFIED			
Exhibit P-3A, Indivi	dual Modification: P	B 2013 Army				Date: February 2012	
<b>Appropriation / Bu</b> 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity:	P-1 Line Item No AZ2200 - KIOWA			Modification Nomer (Modification Title, M Kiowa Warrior Modifi several	odification Number
Models of Systems	Affected: OH-58D, 0	OH-58F <b>Typ</b>	e Modification: Ope	rational/Safety	Related RI	DT&E PEs:	
Manufacturer Information	on: Level II Manned-Unma	nned (L2MUM) Teamin	ng	<u> </u>			
Administrative Leadtime (	(in Months):			Production Leadtime (in M	lonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Wartime Replacement	Aircraft (WRA)					
Manufacturer Name: Bell	Helicopter Textron Incorpo	rated and Corpus Christ	i Army Depot (CCAD)	Manufacturer Location: Fo	rt Worth, TX and Corpu	s Christi, TX	
Administrative Leadtime (	(in Months): 4			Production Leadtime (in M	lonths): 30		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Aug 2011						
Delivery Dates	Oct 2012						
Manufacturer Information	on: Cockpit And Sensor U	Ipgrade Program (CAS	UP)				
Manufacturer Name: Corp	ous Christi Army Depot (CC	CAD)		Manufacturer Location: Co	orpus Christi, TX		
Administrative Leadtime (	'in Months): 6			Production Leadtime (in M	lonths): 6		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates					Mar 2015	Mar 2016	Mar 2017
Delivery Dates					Sep 2015	Sep 2016	Sep 2017
Manufacturer Information	on: OH-58F CASUP Long	Lead					
Manufacturer Name: Vari	ous			Manufacturer Location: Va	rious		
Administrative Leadtime (	(in Months): 6			Production Leadtime (in M	lonths): 21		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates			Mar 2013	Mar 2014	Mar 2015	Mar 2016	Mar 2017
Delivery Dates			Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019
Manufacturer Information	on: OH-58F CASUP Recap	oitalization					
Manufacturer Name: Bell	Helicopter Textron, Inc			Manufacturer Location: Fo	rt Worth, TX		
Administrative Leadtime (	′in Months): 6			Production Leadtime (in M	lonths): 15		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates				Mar 2014	Mar 2015	Mar 2016	Mar 2017
Delivery Dates				Jul 2015	Jul 2016	Jul 2017	Jul 2018

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P-1 Line #27

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AZ2200 - KIOWA WARRIOR

Modification Nomenclature
(Modification Title, Modification Number):
Kiowa Warrior Modification Programs several

Models of Systems Affected: OH-58D, OH-58F

Type Modification: Operational/Safety

Related RDT&E PEs:

Installation: Safety Enhancement Program (SEP)	Me	thod of Impl	ementation:	FFP			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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	С	5.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	С	5.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.800
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.800

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Exhi	bit P-	3A, lı	ndivi	dual I	Modif	ficatio	on: PE	3 201	3 Arn	ny														)ate:	: Feb	ruary	2012				
	r <b>opria</b> A / Ba			_	Activi	ty / B	udge	t Sub	Acti	vity:						enclat 'ARRI							(/	Mod	<i>ificati</i> a Wa	on Tit	omeno tle, Mo Modific	dific	ation		•
Mod	els of	Syst	ems	Affec	cted:	OH-5	8D, O	H-58	F	T	ype N	lodif	icatio	on: O	perat	ional/	Safet	y			Rela	ated	RDT&	E PE	Es:						
Instal	lation:	Safety	Enhar	ncemei	nt Prog	gram (S	SEP)			М	ethod	of Imp	olemer	ntation	ı: FFP						Insta	llatio	n Name:								
	lation																														
			FY 2	2011			FY 2	012			FY 2	013			FY	2014			F	Y 2015			FY 20	16			FY 20	17			
	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	371	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	371
Out	371	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	371
Instal	lation:	Fielde	d Fleet	Upara	ides ar	nd Wei	ght Rec	duction	<u> </u>	М	ethod	of Imr	olemer	ntation	ı: vario	ous					Insta	llatio	n Name:								
							5				r Year				2011			FY 2	2012			013 E			FY 2	013 OC	20		FY 20	13 Tota	al
Inetal	lation	Cost								Qty	Tota	al Cost		Qty	Tota	l Cost	Qt	:y	Tota	al Cost	Qty		Total Cost		Qty	Tot	al Cost	(	Qty	Tota	l Cost
	or Yea									(Each)	0 (3	4.200	+ '	Each) 0	+	0.000	(Ea	<i>cn)</i> 0	(3	0.000	(Each)	0	(\$ M ) 0.000		(Each)	0	(\$ M ) 0.000	(E	Each)	+	0.000
FY 20											0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20											0	0.000	0	0	)	0.000		0		2.466		0	0.000	0		0	0.000		C	)	0.000
FY 20											0	0.000	0	0	)	0.000		0		0.000		0	0.904	4		0	0.000		C	)	0.904
FY 20	14										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20	15										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20	16										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20	17										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
To Co	mplete										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
Total											0	4.200	0	0	)	0.000		0		2.466		0	0.904	4		0	0.000		C	)	0.904
										FY	2014			FY	2015			FY 2	2016		F	Y 201	7		То С	omple	te		т,	otal	
Instal	lation	Cost								Qty (Each)		al Cost		<b>Qty</b> Each)		I Cost	Qt (Eac			al Cost	Qty (Each)	1	Total Cost		Qty (Each)		al Cost		Qty Each)		l Cost
All Pri	or Yea	s									0	0.000	<del> </del>	0	+ '	0.000	(20	0	,,	0.000	(2001)	0	0.000			0	0.000	<u> </u>	(		4.200
FY 20	11										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20											0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	2.466
FY 20	13										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.904
FY 20	14										0	0.000	0	0		0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000
FY 20	15										0	0.000	0	0	)	0.000		0		0.000		0	0.000	0		0	0.000		C	)	0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AZ2200 - KIOWA WARRIOR	Modification Nomenclature (Modification Title, Modification Number): Kiowa Warrior Modification Programs - several
Models of Systems Affected: OH-58D, OH-58F	Type Modification: Operational/Safety	Related RDT&E PEs:

Installation: Fielded Fleet Upgrades and Weight Reduction	Met	thod of Impl	ementation:	various			Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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)
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.570

# Installation Schedule

			FY	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Level II Manned-Unmanned (L2MUM) Teaming	Met	hod of Impl	ementation:	various con	tracts		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	6	0.247	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	174	2.748	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	6	0.247	174	2.748	0	0.000	0	0.000	0	0.000	0	0.000

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Exhi	bit P-3	3A, Iı	ndivi	dual	Mod	ifica	atio	n: P	B 2	2013 <i>A</i>	۱rmy	/													D	ate	: Febi	ruary	2012			
	ropria A / BA				Activ	ity .	/ Bu	udge	et S	ub A	ctivi	ity:					lomend A WAR								(/ K	Иоа	<i>lificati</i> a Wai	on Ti	omenc tle, Mod Modifica	dificatio	on N	lumber): ams -
Mod	els of	Syst	ems	Affe	cted	: OH	H-58	3D, C	DH-	-58F		Ту	/pe N	/lodifi	catio	on: Op	peration	al/S	Safety				Re	lated	RDT&	E PI	Es:					
Insta	lation: l	_evel	II Man	ned-Ur	nman	ned (	L2M	IUM) <sup>-</sup>	Tea	ming		Me	ethod	of Impl	emer	ntation	: various o	conti	racts				Ins	tallati	on Name:							
												FY	2014			FY 2	2015			FY 2	2016			FY 20	17		То С	omple	te		Tota	al
Insta	lation C	ost									Q (Ea	Qty ach)		al Cost \$ M )		Qty ach)	Total Cos (\$ M)	st	Qty (Each		Total (\$ A		<b>Qty</b> (Each	)	Total Cost (\$ M)		<b>Qty</b> (Each)		tal Cost (\$ M )	Qty (Each)		Total Cost (\$ M)
All Pr	or Years	5										(	)	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		6	0.24
FY 20	11											(	)	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		174	2.748
FY 20	12											(	0	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	13											(	)	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	14											(	0	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	15											(	)	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	16											(	0	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	17											(	0	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
To Co	mplete											-		-		-		-		-		-		-	-		-		-		-	-
Total												(	ס	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		180	2.99
Insta	lation S	ched	ule																													
			FY	2011				FY 2	201	2			FY 2	2013			FY 201	4			FY	2015			FY 201	16			FY 20	17		
	APY	1	2	3	4	١.	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	1	TC Tot
In	332	0	0	0		0	0	0		0	0	0	0	0	0	0	0	0	0	C	) (	0	0	(	0 0	0	0	0	0	0	0	0 332
Out	290	42	0	0		0	0	0		0	0	0	0	0	0	0	0	0	0	C	) (	0	0	(	0 0	0	0	0	0	0	0	0 332
Insta	lation: \	Wartin	ne Re	placem	ent A	ircraf	ft (W	ra)									: Sole Sou al Purcha:					SS/FFF		tallati	on Name:							
												Prior	r Year	s		FY 2	2011			FY 2	2012		FY	2013	Base		FY 20	013 O	co	FY	2013	Total
Instal	lation C	ost										Qty ach)		al Cost \$ M )		Qty Each)	Total Cos	st	Qty (Each		Total (\$ A		Qty (Each	)	Total Cost (\$ M)		Qty (Each)		tal Cost	Qty (Each)		Total Cost
All Pr	or Years	3										(	ס	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	11											(	ס	0.000		0	0.	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	12											(	ס	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	13											(	)	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	14											(	)	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000
FY 20	15											(	)	0.000		0	0.0	000		0		0.000		0	0.000			0	0.000		0	0.000

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														UNC	<b>LA</b>	<b>331</b> F	IED														
Exh	ibit P-	3A, I	ndivi	dua	al Mod	ificati	on: P	B 20	13 Ar	my													D	ate: F	ebr	uary	2012				
	ropria 1A / B				t Activ	rity / E	Budge	t Sul	b Act	ivity:		<b>P-1 L</b> AZ22	_		-		-						( <i>/</i> K	Modifi	<i>catio</i> War	on Ti	l <b>omen</b> itle, Mo Modific	odific	cation		,
Mod	lels of	Syst	tems	Af	fected	: OH-	58D, C	)H-58	3F	T	ype	Modifi	catio	n: Op	perati	ional/S	Safety	/			Rela	ated	RDT&E	E PEs	<b>:</b>						
Insta	llation:	Wartin	ne Rep	olac	ement A	rcraft (	WRA)					d of Impl								S/FFP	, I	llatio	on Name:								
										Prio	r Yea	ırs		FY 2	2011			FY 2	012		FY 2	013	Base	F	Y 20	13 0	СО		FY 201	13 Tota	al
Insta	llation (	Cost								Qty (Each)		otal Cost (\$ M)		Qty ach)		I Cost	Qt <sub>!</sub> (Eac		Total Co		Qty (Each)		Total Cost (\$ M)	Q (Ea	ty ach)		tal Cost (\$ M )		<b>Qty</b> Each)		I Cost
FY 20	016										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
FY 20	)17										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
To Co	omplete										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
Total											0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
										FY	2014	1		FY 2	2015			FY 2	2016		F <sup>*</sup>	Y 20°	17		To Co	omple	ete		Tc	otal	
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FY 20	)12										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
FY 20	013										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
FY 20	)14										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
FY 20	)15										0	0.000		0		0.000		0	(	.000		0	0.000		(	0	0.000		0		0.000
FY 20	016										0	0.000		0		0.000		0	(	.000		0	0.000			0	0.000		0		0.000
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LI AZ2200 - KIOWA WARRIOR Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AZ2200 - KIOWA WARRIOR

Modification Nomenclature

(Modification Title, Modification Programs - several

Models of Systems Affected: OH-58D, OH-58F

Type Modification: Operational/Safety

Related RDT&E PEs:

Installation: Cockpit And Sensor Upgrade Program (CASUP)

Method of Implementation: Military Interdepartmental Purchase Request (MIPR)

Installation Name:

1100	acot (iviii 14)					motana	tion Hame.				
Prior	Years	FY	2011	FY :	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
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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	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	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	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	0	0.000	0	0.000	0	0.000	0	0.000
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	Prior	Prior Years  Qty (Each)  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  0 0.000  0 0.000  0 0.000  0 0.000	Qty (Each)         Total Cost (\$ M )         Qty (Each)           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0           0         0.000         0	Prior Years         FY 2011           Qty (Each)         Total Cost (\$M)         Qty (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         0         0.000           0   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       0.000         0           0         0.000         0         0.000         0	Prior Years         FY 2011         FY 2012           Qty (Each)         Total Cost (\$M)         Qty (Each)         Total Cost (\$M)         Qty (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         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           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         0         0.000           0         0.000         0         0.000         0         0.000         0         0.000           0         0.000 <t< td=""><td>Prior Years         FY 2011         FY 2012         FY 201           Qty (Each)         Total Cost (\$M)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)</td><td>Prior Years         FY 2011         FY 2012         FY 2013 Base           Qty (Each)         Total Cost (SM)         Qty (SM)         Qty (SM)         0.000         0</td><td>Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 201           Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)</td><td>Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 2013 OCO           Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)&lt;</td><td>Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 2013 OCO         FY 201           Qty (Each)         Total Cost (S M)         Qty (Each)         Qty (Ea</td></t<>	Prior Years         FY 2011         FY 2012         FY 201           Qty (Each)         Total Cost (\$M)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)	Prior Years         FY 2011         FY 2012         FY 2013 Base           Qty (Each)         Total Cost (SM)         Qty (SM)         Qty (SM)         0.000         0	Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 201           Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)	Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 2013 OCO           Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)         Total Cost (\$M)         Qty (Each)         Qty (Each)<	Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 2013 OCO         FY 201           Qty (Each)         Total Cost (S M)         Qty (Each)         Qty (Ea

	FY:	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
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 )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	27	46.954	0	0.000	0	0.000	0	0.000	27	46.954
FY 2016	0	0.000	0	0.000	55	70.629	0	0.000	0	0.000	55	70.629
FY 2017	0	0.000	0	0.000	0	0.000	76	56.693	0	0.000	76	56.693
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	210	143.853	210	143.85
Total	0	0.000	27	46.954	55	70.629	76	56.693	210	143.853	368	318.129

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Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: Pl	B 201	13 Arr	ny													l l	Date	: Febr	uary	2012				
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Mod	lels of	Sys	tems	Affe	cted:	OH-5	8D, C	)H-58	3F	Т	ype N	/lodif	icatio	n: O	perati	onal/	Safety	/			Rela	ated	RDT8	E PI	Es:						
				Senso	or Upgra	ade Pr	ogram (	(CASL	JP)		<b>lethod</b> Request			ntation	ı: Milita	ry Inte	rdepart	menta	ıl Puro	chase	Insta	llatio	n Name	):							
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Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0	0	2	8	8	9	10	12	15	16	288	368
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FY 20											0	0.00		0	)	0.000		0		0.000		0	0.00			0	0.000		0		0.000
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FY 20	)12										0	0.00	0	0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000
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FY 20	)14										0	0.00	0	0	)	0.000		0		0.000		0	0.00	00		0	0.000		0		0.000

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Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AZ2200 - KIOWA WARRIOR (Modification Title, Modification Number): Kiowa Warrior Modification Programs several Models of Systems Affected: OH-58D, OH-58F Type Modification: Operational/Safety Related RDT&E PEs: Installation: OH-58F CASUP Long Lead Method of Implementation: Various Installation Name: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (Each) (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) FY 2015 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0 Total 0.000 0.000 0.000 0.000 0.000 Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 2 4 1 2 3 4 1 2 3 1 2 3 4 2 3 4 2 3 4 TC 1 4 4 1 1 Tot 22 20 21 20 In 0 0 0 0 0 0 0 0 0 0 5 8 10 12 13 14 16 18 25 25 20 20 20 20 126 435 0 0 0 22 Out 0 0 0 0 10 12 13 18 25 435 14 16 267 Installation: OH-58F CASUP Recapitalization Method of Implementation: SS/FFP **Installation Name: Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qty **Total Cost** Installation Cost (Each) (\$ M) 0.000 0.000 0.000 0.000 0.000 0.000 All Prior Years FY 2011 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0 FY 2012 0.000 0.000 0.000 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2016 FY 2017 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000

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LI AZ2200 - KIOWA WARRIOR Army

To Complete Total

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P-1 Line #27

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	r <b>opria</b> A / B			_	et Activ	ity /	Bu	dget	Sub	Act	ivity:		1-			•		enclat ARRI							(M Kid	odif	icatio War	n Tit	omenc le, Mod lodifica	dificati	ion I		•
Mod	els o	Sys	tems	A	ffected:	ОН	-58	D, O	H-58	F	1	Уľ	ое Мо	dific	ation	n: Op	oerati	ional/	Safety	у			Rela	ted	RDT&E	PEs	s:						
Instal	lation:	OH-5	8F CA	SUI	P Recapita	alizati	on				N	/let	hod of	Imple	ement	ation	: SS/F	FP					Instal	latio	n Name:								
	Oth								F`	Y 2	014			FY 2	2015			FY 2	2016	6	F١	201	7		To Co	mple	ie		To	tal			
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All Pri	Prior Years							0		0.000		0		0.000		0		0.000		0	0.000		(		0.000		0		0.000				
FY 20	11											0		0.000		0		0.000		0		0.000		0	0.000		(		0.000		0		0.000
FY 20	12											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
FY 20	13											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
FY 20	14											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
FY 20	15											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
FY 20	16											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
FY 20	17											0		0.000		0		0.000		0		0.000		0	0.000		(	)	0.000		0		0.000
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			FY	201	11			FY 2	012				FY 201	3			FY	2014			Ī	FY 2015			FY 2016	5			FY 20	17			
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P-1 Line #27

17 111

18 180

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0700 - Airborne Avionics

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Otl	ner Related P	rogram Elen	nents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
(The follo	wing Resource	Summary rows	are for informa	ntional purposes	only. The corre	esponding budg	get requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	110.223	10.398	-	-	-	-	-	-	-	-	0.000	120.621
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The Airborne Avionics budget line includes the Global Positioning System (GPS), the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), Aviation Tactical Communications Systems (ATCS), Joint Tactical Radio System (JTRS), Military Flight Operations Quality Assurance (MFOQA), and Apache Interoperability. The GPS, IDM, AMPS, ATCS and JTRS are five of the aviation systems required to support the digitization of the battlefield.

The GPS provides Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. The GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The EGI is integrated into the Modernized Cargo, Utility, Attack, Kiowa Warrior, and Special Operations fleets of helicopters. The Preplanned Product Improvement (P3I) DGNS (AN/ASN-128D) 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-58D) and Special Operations Aircraft (SOA) (MH-47G and MH-60M). M-code is a new GPS security architecture and signal in space, mandated to support navigation warfare (NAVWAR) requirements. In order to minimize aircraft integration and testing requirements, M-Code capable GPS receivers are planned to be compatible with future landing systems.

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 fleet aircraft including the AH-64A/D, CH-47D/F, OH-58F 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 Automated Flight Record System. 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 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker's MT-2011 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 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.

LI AA0700 - Airborne Avionics

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P-1 Line #28

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army		Date: February 2012
	P-1 Line Item Nomenclature: AA0700 - Airborne Avionics	

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

Program Elements for Code B Items:

Other Related Program Elements:

0.000

1,675.484

1,675.484

The JTRS integration activities for production and fielded aircraft installs and qualifies hardware and software to enable the operation of JTRS compliant radios with Wideband Networking Waveform (WNW), Soldier Radio Waveform (SRW) and/or other advanced networking waveforms. This program also provides for the procurement and installation of radio retrofit kits for use on platforms that were fielded without these capabilities.

Military Flight Operations Quality Assurance (MFOQA) is the systematic collection and automated analysis of operational data from aircraft for use in continuous improvement of combat readiness in the areas of operation, training, maintenance and safety.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	201.290	-	-	-	-	-	-	=	-
Army National	Quantity	-	-	-	-	-	-	-	-	-
Guard	Total Obligation Authority	7.803	-	-	-	-	-	-	-	-
Army Reserve	Quantity	-	-	-	-	-	-	-	=	-
	Total Obligation Authority	0.138	-	-	-	-	-	-	-	-

Item Sche	edule		P	Prior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	ise	FY	′ 2013 O	co	FY	2013 To	tal
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 (\$ M)
Airborne Avionics - 0000	P3A		-	-	1,466.253	-	-	209.231	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					1,466.253			209.231			-			-			-			-
				FY 2014			FY 2015			FY 2016			FY 2017		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

Total Gross/Weapon System Cost - - 0.000

\*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.

Justification

Airborne Avionics - 0000

РЗА

Beginning in FY 2012, funding on this SSN was split into the following new SSN's, Network and Mission Plan AA0712 and Comms, Nav Surveillance AA0723.

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P-1 Line #28

Exhibit P-3A, Individual Modification: PB 2013 Army			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics		Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/	 <b>lodification:</b> Rationalization, Standardization, erability, Compatibility, Simplification	Related RDT	&E PEs:

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,466.253	209.231	-	-	-	-	-	-	-	-	0.000	1,675.484
/The fo	llowing Resource	Summany rows	are for informa	tional nurnoses	only The corre	esponding hude	et requests are	documented el	sewhere )			

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

F.MH-47G.MH-60M.UAS

The Airborne Avionics budget line includes the Global Positioning System (GPS), the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), Aviation Tactical Communications Systems (ATCS), Joint Tactical Radio System (JTRS), Military Flight Operations Quality Assurance (MFOQA), and Apache Interoperability. The GPS, IDM, AMPS, ATCS and JTRS are five of the aviation systems required to support the digitization of the battlefield.

The GPS provides Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The EGI is integrated into the Modernized Cargo, Utility, Attack, Kiowa Warrior, and Special Operations fleets of helicopters. The P3I DGNS (AN/ASN-128D) 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-58D) and Special Operations Aircraft (SOA) (MH-47G and MH-60M). M-code is a new GPS security architecture and signal in space, mandated to support navigation warfare (NAVWAR) requirements. In order to minimize aircraft integration and testing requirements, M-Code capable GPS receivers are planned to be compatible with future landing systems.

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 fleet aircraft including the AH-64A/D, CH-47D/F, OH-58F 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 Automated Flight Record System. 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 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker's MT-2011 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.

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P-1 Line #28

	01102/10011 125	
Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y: P-1 Line Item Nomenclature: AA0700 - Airborne Avionics	Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification	Related RDT&E PEs:
requirements due to delays in the Joint Tactical Radio System (JTRs hardware and software is planned to be procured through the prime  The JTRS integration activities for production and fielded aircraft ins	Aviation Program to procure Alternative Communications (Alt Comms) A S) program. Alt Comms B-Kits include the ARC-201D and the ARC-23 contractor for each platform.  talls and qualifies hardware and software to enable the operation of JTI waveforms. This program also provides for the procurement and install	1 radio sets along with associated power amplifiers and mounts. A-Kit RS compliant radios with Wideband Networking Waveform (WNW),
	natic collection and automated analysis of operational data from aircraft	for use in continuous improvement of combat readiness in the areas of

LI AA0700 - Airborne Avionics Army UNCLASSIFIED Page 4 of 24

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0700 - Airborne Avionics

Modification Nomenclature
(Modification Title, Modification Number):

Airborne Avionics - 0000

Models of Systems Affected: CH-47D/
F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/
Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

F,MH-47G,MH-60M,UAS

	Prior	Years	FY :	FY 2011		FY 2012		3 Base	FY 201	3 OCO	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos								
Procurement												
DGNS (AN/ASN-128D) P3I (1)												
A Kits												
Recurring												
Kit Quantity - B-Kit	1,665	55.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Kit Quantity A-Kit	1,696	17.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
ECPs	0	9.300	0	11.200	0	0.000	0	0.000	0	0.000	0	0.0
Data	0	4.900	0	0.600	0	0.000	0	0.000	0	0.000	0	0.0
Training Equipment	0	5.900	0	2.000	0	0.000	0	0.000	0	0.000	0	0.0
Systems Engineering	0	18.300	0	2.800	0	0.000	0	0.000	0	0.000	0	0.0
Other - PM Admin	0	7.800	0	0.799	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		119.600		17.399		0.000		0.000		0.000		0.0
NonRecurring								'		'		•
B-Kit Nonrecurring	0	14.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Aircrft Integr - Nonrecurring	0	5.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal NonRecurring		19.900		0.000		0.000		0.000		0.000		0.0
Total, DGNS (AN/ASN-128D) P3I	3,361	139.500	0	17.399	0	0.000	0	0.000	0	0.000	0	0.0
Embedded GPS Inertial Navigation System (EGI) P3I (2)												
A Kits												
Recurring												
Kit Quantity - B-Kit	186	11.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
ECPs	0	1.800	0	0.100	0	0.000	0	0.000	0	0.000	0	0.0
Data	0	1.200	0	0.100	0	0.000	0	0.000	0	0.000	0	0.0
Training Equipment	0	5.200	0	0.300	0	0.000	0	0.000	0	0.000	0	0.0
Systems Engineering	0	7.800	0	0.300	0	0.000	0	0.000	0	0.000	0	0.0
Other - PM Admin	0	2.500	0	0.237	0	0.000	0	0.000	0	0.000	0	0.0

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

**Modification Nomenclature** (Modification Title, Modification Number):

AA0700 - Airborne Avionics

Airborne Avionics - 0000

Models of Systems Affected: CH-47D/

F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/

Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

F.MH-47G.MH-60M.UAS FY 2011 FY 2012 FY 2013 OCO **Prior Years FY 2013 Base** FY 2013 Total **Total Cost Total Cost** Total Cost **Total Cost Total Cost** Qty Qty **Total Cost Financial Plan** (Each) (Each) (Each) (\$ M) (Fach) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (\$ M) 1.037 0.000 0.000 29.600 0.000 0.000 Subtotal Recurring NonRecurring 0 4.800 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 **B-Kit Nonrecurring** 2.800 0.000 0 0.000 0.000 0.000 0 0.000 Aircrft Integr - Nonrecurring 7.600 0.000 0.000 0.000 0.000 0.000 Subtotal NonRecurring Total, Embedded GPS Inertial Navigation System (EGI) P3I 186 37.200 1.037 0 0.000 0 0.000 0.000 0 0.000 Aviation Tactical Communication Systems (ATCS) (3) A Kits Recurring Kit Quantity-B-Kit (ARC-231) 905 84.200 230 17.200 0 0.000 0 0.000 0 0 0.000 Kit Quantity-B-Kit (ARC201D) 1,117 32.400 170 5.100 0 0.000 0 0.000 0 0.000 0 0.000 Kit Quantity-B-Kit (IFM) 693 14.100 170 3.200 0 0.000 0.000 0 0.000 0.000 78 0.000 0 0 0 Kit Quantity-A-Kit (ARC-231) 590 43.000 2.800 0 0.000 0.000 0.000 System Engineering 0 19.000 3.200 0 0.000 0 0.000 n 0.000 0 0.000 System Test & Evaluation 0 19.300 18.300 0 0.000 0 0.000 0 0.000 0 0.000 Fielding/Training 0 14.800 7.700 0 0.000 0 0.000 0 0.000 0 0.000 26.100 8.399 0 0.000 0.000 0 0.000 0.000 Other - PM Admin 0.000 0.000 0.000 Subtotal Recurring 252.900 65.899 0.000 NonRecurring ECPs - Nonrecurring 125.700 23.816 0 0.000 0.000 0.000 0 0.000 125.700 23.816 0.000 0.000 0.000 0.000 Subtotal NonRecurring Total. Aviation Tactical Communication Systems (ATCS) 0.000 0.000 0.000 3,305 378.600 648 89.715 0 0.000 0 0 0 Joint Tactical Radio System (JTRS) (4)

LI AA0700 - Airborne Avionics Army

Aircraft Integration

A Kits

Recurring

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13.200

0.000

0

P-1 Line #28

0

0.000

0.000

0

0.000

0

0.000

**Exhibit P-3A, Individual Modification:** PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0700 - Airborne Avionics

Modification Nomenclature
(Modification Title, Modification Number):

Airborne Avionics - 0000

Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS

Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification Related RDT&E PEs:

	Prior	Years	FY 2011		FY 2012		FY 2013 Base		FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
System Engineering	0	0.000	0	2.300	0	0.000	0	0.000	0	0.000	0	0.00
Other - PM Admin	0	0.000	0	1.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		16.500		0.000		0.000		0.000		0.00
Total, Joint Tactical Radio System (JTRS)	0	0.000	0	16.500	0	0.000	0	0.000	0	0.000	0	0.00
Mil Flight Operation Quality Assurance (MFOQA) (5)												
A Kits												
Recurring												
Kit Quantity	80	4.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Other-PM Admin	0	10.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
System Engineering	0	22.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		37.000		0.000		0.000		0.000		0.000		0.00
B Kits												•
Recurring												
Kit Quantity	80	6.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		6.500		0.000		0.000		0.000		0.000		0.00
Total, Mil Flight Operation Quality Assurance (MFOQA)	160	43.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Improved Data Modem (IDM) <sup>(6)</sup>												
B Kits												
Recurring												
Kit Quantity - IDM	1,751	54.600	116	2.500	0	0.000	0	0.000	0	0.000	0	0.00
Kit Quantity - IDM Mods	306	8.300	90	2.000	0	0.000	0	0.000	0	0.000	0	0.00
Kit Quantity	240	11.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Aircraft Integration	0	254.653	0	17.645	0	0.000	0	0.000	0	0.000	0	0.00
ECP (HW)	0	3.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
ECP (SW)	0	71.800	0	24.800	0	0.000	0	0.000	0	0.000	0	0.00
Data	0	4.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AA0700 - Airborne Avionics

(Modification Title, Modification Number):

Airborne Avionics - 0000

Models of Systems Affected: CH-47D/

F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/

F,MH-47G,MH-60M,UAS

Type Modification: Rationalization, Standardization,

Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	Prior	Years	FY 2011		FY 2012		FY 2013 Base		FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Systems Engineering	0	25.300	0	1.900	0	0.000	0	0.000	0	0.000	0	0.00
Systems Test and Evaluation	0	7.000	0	2.900	0	0.000	0	0.000	0	0.000	0	0.000
Fielding/Training	0	21.500	0	1.900	0	0.000	0	0.000	0	0.000	0	0.00
Other-PM Admin	0	31.600	0	3.428	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		494.753		57.073		0.000		0.000		0.000		0.000
NonRecurring								,				
B-Kit NonRecurring	0	101.800	0	0.300	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		101.800		0.300		0.000		0.000		0.000		0.00
Total, Improved Data Modem (IDM)	2,297	596.553	206	57.373	0	0.000	0	0.000	0	0.000	0	0.00
Aviation Mission Planning System (AMPS) (7)		,				,		,		,		
B Kits												
Recurring												
Kit Quantity- Computer	2,574	32.800	30	0.400	0	0.000	0	0.000	0	0.000	0	0.00
Kit Quantity- Upgrades	0	6.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Kit Quantity - Peripherals	0	17.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
ECPs	0	116.100	0	12.100	0	0.000	0	0.000	0	0.000	0	0.00
Systems Engineering	0	9.400	0	1.000	0	0.000	0	0.000	0	0.000	0	0.00
System Test & Eval	0	8.000	0	1.400	0	0.000	0	0.000	0	0.000	0	0.00
Fielding/Training	0	42.600	0	6.000	0	0.000	0	0.000	0	0.000	0	0.00
Other - PM Admin	0	12.500	0	1.807	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		244.700		22.707		0.000		0.000		0.000		0.00
NonRecurring								,				
B Kit (Nonrecurring)	0	12.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal NonRecurring		12.300		0.000		0.000		0.000		0.000		0.00
Total, Aviation Mission Planning System (AMPS)	2,574	257.000	30	22.707	0	0.000	0	0.000	0	0.000	0	0.00
Total, All Modifications		1,452.353		204.731		0.000		0.000		0.000		0.00
Procurement Cost (Procurement + Support)		1,452.353		204.731		0.000		0.000		0.000		0.00

LI AA0700 - Airborne Avionics Army

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P-1 Line #28

Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item I AA0700 - Airbo			Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH 47D/	vno Modification: D	ationalization Standardization	Polatod PDT	&E DEc.

Models of Systems Affected: CH-4/D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ Type Modification: Rationalization, Standardization,

FY 2013 OCO

FY 2013 Total

Interoperability, Compatibility, Simplification F,MH-47G,MH-60M,UAS **Prior Years** FY 2011 FY 2012 **FY 2013 Base** 

										I		
Financial Plan	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 )
Total Installation Cost		13.900		4.500		0.000		0.000		0.000		0.00
Total Cost (Procurement + Support + Installation)		1,466.253		209.231		0.000		0.000		0.000		0.000
		2014		2015		2016		2017		mplete	To	
Financial Plan	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )						
Procurement												
DGNS (AN/ASN-128D) P3I <sup>(1)</sup>												
A Kits												-
Recurring										,		
Kit Quantity - B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,665	55.60
Kit Quantity A-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,696	17.80
ECPs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	20.50
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.50
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.90
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	21.10
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.59
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		136.99
NonRecurring												
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	14.30
Aircrft Integr - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.60
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		19.90
Total, DGNS (AN/ASN-128D) P3I	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3,361	156.89
Embedded GPS Inertial Navigation System (EGI) P3I (2)												
A Kits												
Recurring												
	<u> </u>											

LI AA0700 - Airborne Avionics Army

Kit Quantity - B-Kit

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0.000

0

0.000

0

0.000

P-1 Line #28

0

0.000

11.100

186

0.000

Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Interoperability, Compatibility, Simplification

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0700 - Airborne Avionics (Modification Title, Modification Number): Airborne Avionics - 0000

> Type Modification: Rationalization, Standardization, Related RDT&E PEs:

Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M )								
ECPs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.90
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.30
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.50
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.10
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.73
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		30.63
NonRecurring				'		-		*			'	
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.80
Aircrft Integr - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.80
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		7.60
Total, Embedded GPS Inertial Navigation System (EGI) P3I	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	186	38.23
Aviation Tactical Communication Systems (ATCS) (3)						•						
A Kits								,				
Recurring												
Kit Quantity-B-Kit (ARC-231)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,135	101.40
Kit Quantity-B-Kit (ARC201D)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,287	37.50
Kit Quantity-B-Kit (IFM)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	863	17.30
Kit Quantity-A-Kit (ARC-231)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	668	45.80
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.20
System Test & Evaluation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	37.60
Fielding/Training	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.50
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	34.49
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		318.79
NonRecurring				'		,					,	
ECPs - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	149.5
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		149.5
Total, Aviation Tactical Communication Systems (ATCS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3,953	468.31

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

2031A / BA 2 / BSA 10

AA0700 - Airborne Avionics

(Modification Title, Modification Number):

Airborne Avionics - 0000

Models of Systems Affected: CH-47D/

F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/

F,MH-47G,MH-60M,UAS

**Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Joint Tactical Radio System (JTRS) <sup>(4)</sup>												
A Kits												
Recurring												
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.20
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.30
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		16.50
Total, Joint Tactical Radio System (JTRS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.50
Mil Flight Operation Quality Assurance (MFOQA) (5)												
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	4.30
Other-PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	10.30
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.40
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		37.00
B Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	6.50
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		6.50
Total, Mil Flight Operation Quality Assurance (MFOQA)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	160	43.50
Improved Data Modem (IDM) <sup>(6)</sup>												
B Kits												
Recurring												
Kit Quantity - IDM	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,867	57.10
Kit Quantity - IDM Mods	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	396	10.30
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	240	11.90

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P-1 Line #28

Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AA0700 - Airborne Avionics (Modification Title, Modification Number):

Airborne Avionics - 0000

Date: February 2012

Type Modification: Rationalization, Standardization, Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	272.298
ECP (HW)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.500
ECP (SW)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	96.600
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.600
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	27.200
Systems Test and Evaluation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.900
Fielding/Training	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.400
Other-PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	35.028
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		551.826
NonRecurring												
B-Kit NonRecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	102.100
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		102.100
Total, Improved Data Modem (IDM)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,503	653.926
Aviation Mission Planning System (AMPS) (7)												
B Kits												
Recurring												
Kit Quantity- Computer	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,604	33.200
Kit Quantity- Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.100
Kit Quantity - Peripherals	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	17.200
ECPs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	128.200
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	10.400
System Test & Eval	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.400
Fielding/Training	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	48.600
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	14.307
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		267.407
NonRecurring												
B Kit (Nonrecurring)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.300

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F,MH-47G,MH-60M,UAS

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Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activit 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA0700 - Airborne Avionics		Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/		<b>Modification:</b> Rationalization, Standardization, perability, Compatibility, Simplification	Related RDT	&E PEs:

	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		12.300
Total, Aviation Mission Planning System (AMPS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,604	279.707
Total, All Modifications		0.000		0.000		0.000		0.000		0.000		1,657.084
Procurement Cost (Procurement + Support)		0.000		0.000		0.000		0.000		0.000		1,657.084
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		18.400
Total Cost (Procurement + Support + Installation)		0.000		0.000		0.000		0.000		0.000		1,675.484

#### Remarks:

F.MH-47G.MH-60M.UAS

FY 2013 Base procurement dollars have been realigned to SSN AA0723 Comms, Nav Surveillance. The remaining A-Kit installations are reflected on the AA0723 P-3a installation schedule.

(2) Embedded GPS/INS (Global Positioning/Inertial Navigation Systems) (EGI) is one of the aviation systems required for Digitization of the Battlefield. Fielding of the GPS EGI Preplanned Product Improvement (P3I) continues. This P3I modification provides enhanced security with the directed Selective Availability Anti-Spoofing Module and GPS Instrument Flight Rules navigation capability, in accordance with civil airspace regulatory requirements. The next modification to the EGI will be to include M-Code security requirements into the currently fielded equipment. EGI B-Kits are procured on this budget line when there are upgrades or engineering changes made to the product. The aircraft platform PM offices budget for procurement and A-Kit integration for production line installation.

FY 2013 Base procurement dollars have been realigned to SSN AA0723 Comms, Nav Surveillance. GPS P3I, GATM, and JPALS programs are closely linked and have joint perspective/participation.

(3) Aviation Tactical Communication Systems (ATCS) is comprised of Alternate Communications (Alt Comms) and the ARC-220 HF radio. Alt Comms procures A-Kits and B-Kits to meet minimum acceptable near-term communication requirements. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. B-Kits are procured prior to A-Kits due to platform and radio lead times. A-Kit configuration and radio suite varies by platform. B-Kit unit costs vary based on platform configuration. The installation schedule reflects only those A-Kits being installed on the CH-47F platform under their Production Improvement Program (PIP).

FY 2013 Base procurement dollars have been realigned to SSN AA0723 Comms, Nav, Surveillance. This installation schedule reflects only those A-Kits funded with SSN AA0700. The remaining A-Kit installations are reflected on the AA0723 P-3a installation schedule.

(4) The JTRS integration program installs and qualifies JTRS compliant radios with WNW and SRW and/or other advanced networking waveform capabilities onto production and fielded aircraft. This funding will procure and install retrofit installation kits as well as provide the funding for installation of these kits. Retrofit installations will occur on all aircraft that were not installed with JTRS on the production line.

FY 2013 Base procurement dollars have been realigned to SSN AA0723 Comms. Nav Surveillance.

LI AA0700 - Airborne Avionics

Army

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P-1 Line #28

<sup>(1)</sup> The Doppler GPS Navigation System (DGNS) is one of the aviation systems required for Digitization of the Battlefield. The ASN-128D is required to meet directed Selective Availability Anti-Spoofing Module (SAASM) security requirements and to provide a box-level Instrument Flight Rules (IFR) navigation capability. A P3I for the current ASN-128B/DGNS for the UH-60A/L, HH-60A/L, and CH-47D aircraft is being updated to an ASN-128D. The AN/ASN-128D/DGNS will meet the regulatory requirements of civil airspace for the UH-60A/L, HH-60A/L, and CH-47D aircraft. A-Kit unit procurement and installation costs vary by platform.

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Exhibit P-3A, Indivi	idual Modification: F	PB 2013 Army				Date: February 2012	2
Appropriation / Bud 2031A / BA 2 / BSA	<b>dget Activity / Budg</b> o 10	et Sub Activity:	P-1 Line Item No AA0700 - Airborn		Modification Nome (Modification Title, M Airborne Avionics - (	Modification Number):	
Models of Systems F,UH-60A/L/M/Q,HF F,MH-47G,MH-60M,	l-60L/M,AH-64A/D,OI		rpe Modification: Rati teroperability, Compati	onalization, Standardization, bility, Simplification	Related R	DT&E PEs:	
of operation, training, n and provide more effect (6)The IDM is the comm solution also provides a Joint Variable Message Beginning in FY 2012, (7)The AMPS is used to which furnish the aviati- formats. The electronic for the data receptacles Beginning in FY 2012,	naintenance and safety. Metive risk management. United and solution for digitizing A as flexible, software driven de Format messages capabile. Base procurement dollars to automate Aviation mission commander with continute formats are loaded onto the subusses required to interfat as a procurement dollars to the subusses required to interfat as a procurement dollars to the subusses and the subusses are subusses and the subusses are subusses as a subusses and the subusses are subusses and the subusses are subusses as a subusses are subusses and the subusses are subusses as a subusse as a subusses are subusses as a subusse are subusses as a subusses as a subusses are subusses as a subusse as a subusses as	IFOQA builds on a con toosts vary by aircraft army Aviation. It perfor ligital messaging syste lity to the cockpit. The were realigned to SSN in planning tasks. The uous situational aware he aircraft platforms, in ace with AMPS, there is were realigned to SSN were realigned to SSN in the control of the co	nmercial aviation initiative will platform.  Image: ms as an internet controller and that is interoperable with a IDM is currently utilized by AA0712 Network and Missi AMPS supports tactical conness, allowing the commanditializing the communication.	nmand and control, mission planninder to rapidly adjust mission plans., navigation, and situational awaren le. AMPS is fielded from the Army t	s of flight data to b  ) and Fire Support efield operating syst UH/HH-60M.  g, and mission ma This system gener ess systems on fle	etter identify hazards, increase (FS) internet for Army aircraft stems. The IDM provides Situ magement. It interfaces with the ates mission data in either har et aircraft. Since the airframe	e operational efficiency  This hardware/software ational Awareness and he AMCS components, rd copy or electronic shave the responsibility
	on: DGNS (AN/ASN-128D)	) P3I					
Manufacturer Name: BAE				Manufacturer Location: Newar			
Administrative Leadtime	,	EV 2042	EV 2042	Production Leadtime (in Month		FV 0040	EV 004E
Dates Contract Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Delivery Dates							
,	on: Embedded GPS Inerti	ial Navigation System	(ECI) P2I				
Manufacturer Name: Hon		ai Navigation System	(EGI) F3I	Manufacturer Location: Cleary	vator El		
Administrative Leadtime	<u> </u>			Production Leadtime (in Monti	,		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Jul 2011	1.12012					1.12011
Delivery Dates	Jan 2012						
Manufacturer Information	on: Aviation Tactical Com	munication Systems	(ATCS)				
Manufacturer Name: Ray	theon, Inc.	<u> </u>	· ,	Manufacturer Location: Fort W	/ayne, IN		
Administrative Leadtime (	(in Months): 10			Production Leadtime (in Monti	hs): 11		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Aug 2011						
Delivery Dates	Jun 2012						
I .							

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Exhibit P-3A, Indiv	idual Modification: F	PB 2013 Army				Date: February 2012	
<b>Appropriation / Bu</b> 2031A / BA 2 / BSA	dget Activity / Budg 10	et Sub Activity	P-1 Line Item No AA0700 - Airborn			Modification Nomer (Modification Title, M Airborne Avionics - 0	odification Number
	s Affected: CH-47D/ H-60L/M,AH-64A/D,OI ,UAS	H-58D/	Type Modification: Rati Interoperability, Compati	onalization, Standardization, bility, Simplification	Related R	DT&E PEs:	
Manufacturer Information	on: Joint Tactical Radio S	System (JTRS)					
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: Manas	sas, VA		
Administrative Leadtime	(in Months):			Production Leadtime (in Month	s):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Mil Flight Operation C	Quality Assurance	(MFOQA)				
Manufacturer Name: AMI	RDEC Software Engineerir	ng Directorate		Manufacturer Location: Redsto	ne Arsenal, AL		
Administrative Leadtime	(in Months):			Production Leadtime (in Month	s):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Improved Data Moder	m (IDM)					
Manufacturer Name: Syn	netrics Industries, LLC			Manufacturer Location: Melbou	ırne, FL		
Administrative Leadtime	(in Months):			Production Leadtime (in Month	s):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Aviation Mission Plar	ning System (AMF	PS)				
Manufacturer Name: AMI	RDEC Software Engineerir	ng Directorate		Manufacturer Location: Redsto	ne Arsenal, AL		
Administrative Leadtime	(in Months):			Production Leadtime (in Month	s):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0700 - Airborne Avionics	Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH-47D/	Type Modification: Rationalization, Standardization,	Related RDT&E PEs:

F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS **Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

F,MH-47G,MH-60M,UAS

Method of Implementation: Modification Work Order (MWO) Depot
Level Installations
Installation Name:

Installation: DGNS (AN/ASN-128D) P3I		el Installation		Modification	Work Order	(WWVO) Depo	I	tion Name:				
	Prior	Years	FY 2	011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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	1,350	10.100	300	2.700	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,350	10.100	300	2.700	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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	1,650	12.800
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,650	12.800

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Exhibit P-3A, Individual Modification: PB 2013 A	rmy								Date: Febr	uary 2012		
Appropriation / Budget Activity / Budget Sub Ac 2031A / BA 2 / BSA 10	tivity:			<b>lomenclat</b> rne Avionic					(Modification	on Nomeno on Title, Mo vionics - 00	dification l	Number <b>):</b>
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS				ationalizatio atibility, Sin			Relat	ed RDT8	kE PEs:			
Installation: DGNS (AN/ASN-128D) P3I		nod of Impled Installation		: Modification	Work Orde	er (MWO) Depo		ation Name	<b>)</b> :			
Installation Schedule												
FY 2011 FY 2012	F	FY 2013		FY 2014		FY 2015		FY 20	016	FY 20	17	
APY 1 2 3 4 1 2 3 4	1 2	2 3	4 1	2 3	4 1	2 3	4 1	1 2	3 4	1 2	3 4	TC Tot
In 1,350 75 75 75 75 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 1,650
Out 1,282 68 75 75 75 75 0 0	0 0	0 0	0 0	0 0	0	0 0 0	0	0 0	0 0	0 0	0 0	0 1,650
Installation: Embedded GPS Inertial Navigation System (EGI) P	Prior Y	ears Total Cost	FY 2	2011 Total Cost	FY Qty	2012 Total Cost	FY 201 Qty	ation Name	FY 20	013 OCO  Total Cost	FY 201 Qty	Total Cost
Installation Cost	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M )	(Each)	(\$ M ) 0 0.000	(Each)	(\$ M ) 0.000
All Prior Years	0	0.000	0	0.000			0			0.000	0	0.000
FY 2011 FY 2012	U	0.000	-	0.000		0.000		0.00		0.000		0.000
FY 2012	_		_	_				_			_	
FY 2014	_		_	-		_		_		_	_	_
FY 2015	_		_	-		_		_	-	_	_	-
FY 2016	-		-	-		-	-	-	-	-	-	-
FY 2017	-	_	-	-	_	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	C	0.000	0	0.00	00	0.000	0	0.000
	FY 20	014	FY 2	2015	FY	2016	FY	2017	То С	omplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
All Prior Years	0	0.000	0		C	, ,	0	+ ' '	00	0.000	0	0.000
FY 2011	0	0.000	0	0.000	C	0.000	0	0.00	00	0.000	0	0.000
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-

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Fxhi	hit P	.3Δ I	ndivid	lual	Modif	icatio	on: PE	3 201	3 Arn	าง													D	ate: F	ebru	ıarv	2012				
Арр	ropria	ation		get A			udget					1				<b>encla</b> Avion	iture:						<b>Μ</b> (Λ	odific Aodific	atio atio	n No n Tit	omeno tle, Moc cs - 000	dificati		Numb	 per):
F,UF	1-60A	/L/M/		60L/	cted: M,AH		7D/ D,OH-	-58D/	/								ion, St mplific			ation,	Rel	ated	RDT&E	PEs:							
Instal	lation:	Embe	dded G	PS In	ertial Na	avigati	on Syste	em (E	GI) P3I	М	ethod	of Imp	lemen	ntation	: Airc	raft Pla	tform F	unded	Instal	lations	Inst	allatio	on Name:								
										FY	2014			FY	2015			FY 2	2016		F	Y 20	17	Te	o Cor	mple	te		Tot	tal	
Instal	lation	Cost								Qty (Each)		tal Cost		Qty fach)		al Cost \$ M )	Qt (Eac			Cost M)	Qty (Each)		Total Cost	Qty (Eac			tal Cost	<b>Qty</b> (Each			Cost M)
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FY 20	15									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	16									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	17									-		-		-		-		-		-		-	-		-		-		-		-
To Co	mplete	!								-		-		-		-		-		-		-	-		-		-		-		-
Total											0	0.000		0		0.000	)	0		0.000		0	0.000		0		0.000		0		0.000
Instal	lation	Sched	ule																												
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In	-	0		0	0	0	0	0	0	0	0		0	0			0	-		-	0 0	0		0	0	0	0	0	0	0	0
Out	-	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	0
Instal	lation:	Aviatio	on Tact	ical C	ommun	ication	System	ns (AT	CS)	Le	evel In	tallation				lificatio	n Work			O) Dep	Inst		on Name:	T =							
										Qty	r Year	'S tal Cost	<u> </u>	Qty	2011 Total	al Cost	Qt	FY 2	_	Cost	Qty	2013	Base Total Cost	Qty	Y 201		tal Cost	Qty		3 Total	II Cost
Instal	lation	Cost								(Each)		(\$ M )		ach)		\$M)	(Ea			M)	(Each)		(\$ M )	(Eac			(\$ M )	(Each			M)
All Pri	or Yea	rs								3	34	1.400		0		0.000	)	0		0.000		0	0.000		0		0.000		0		0.000
FY 20	11										0	0.000		44		1.800	)	0		0.000		0	0.000		0		0.000		0		0.000
FY 20	12									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	13									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	14									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	15									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	16									-		-		-		-		-		-		-	-		-		-		-		-
FY 20	17									-		-		-		-		-		-		-	-		-		-		-		-
To Co	mplete	!								-		-		-		-		-		-		-	-		-		-		-		

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P-1 Line #28

															LAS																
Exh	ibit P-	3A, Ir	ndivi	dual l	Modif	icatio	n: PE	3 201	3 Arm	ny														Date	: Fel	oruar	y 2012				
	oropria 1A / BA				Activi	ty / B	udge	t Sub	Activ	vity:					lomer ne Av									(Mo	difica	tion 7	Nomen Title, Mo nics - 00	dificati		umb	er):
F,U	dels of H-60A/ H-47G	L/M/C	J,HH	-60L/				-58D/			•				ational atibility				rdizatio	on,	Re	lated	I RDT	&E P	Es:						
Insta	ıllation:	Aviatio	n Tact	tical Co	ommun	ication	Syster	ms (AT	CS)			of Imp		ntation	Modifie	cation	Work	Order	(MWO) [	Depot		tallatio	on Nam	e:							
											r Years			FY 2	_			FY 2	-			2013				2013 (			2013	Total	
Insta	Illation (	Cost							(	<b>Qty</b> Each)		al Cost \$ M)		Qty ach)	Total (		Qt (Ead		Total Cos (\$ M)	st	<b>Qty</b> (Each		Total Cos (\$ M)	t	Qty (Each)	1	Total Cost (\$ M)	Qty (Each	)	Total C	
Total										34	4	1.400		44		1.800		0	0.	000		0	0.0	000		0	0.000		0		0.00
										FY	2014			FY 2	2015			FY 2	016			FY 20	17		To	Comp	lete		Tota	al	
Ineta	ıllation (	Cost								Qty Each)	Tota	al Cost		Qty ach)	Total (		Qt (Eac	y	Total Cos	st	Qty (Each		Total Cos	t	Qty (Each)	·	Total Cost	Qty (Each		Total C	
	rior Year								<b>-</b>		) (	0.000	( -	0		0.000	(Eat	0		000	(Each)	0	(\$ M ) 0.0	000	(Eacri)	0	0.000	(Eaci)	34		1.40
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FY 2	012									-		-		-		-		-		-		-				-	-		-	-	-
FY 2	013									-		-		-		-		-		-		-				-	-		-		-
FY 2	014									-		-		-		-		-		-		-				-	-		-		-
FY 2	015									-		-		-		-		-		-		-				-	-		-		-
FY 2	016									-		-		-		-		-		-		-				-	-		-		-
FY 2										-		-		-		-		-		-		-		-		-	-		-		-
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Insta	Illation S	schedi	FY 2	2011			FY 2	012			FY 2	012			FY 20	014			FY 20	115			FY 2	016			FY 20	117			
	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			тс	Tot
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	8	8	9	9	11	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	1 (	0 0	0	0	0	78

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Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activit 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA0700 - Airborne Avionics		Modification Nomenclature (Modification Title, Modification Number): Airborne Avionics - 0000
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/		<b>Modification:</b> Rationalization, Standardization, perability, Compatibility, Simplification	Related RDT	&E PEs:

Method of Implementation: Modification Work Order (MWO) Depot Installation: Joint Tactical Radio System (JTRS) Level Installations **Installation Name:** FY 2012 FY 2013 OCO **Prior Years** FY 2011 **FY 2013 Base** FY 2013 Total Qty (Each) Total Cost Qty **Total Cost** Qty Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost Installation Cost** (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 All Prior Years FY 2011 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 FY 2013 FY 2014 ----FY 2015 FY 2016 -FY 2017 To Complete Total 0 0.000 0 0.000 0.000 0 0.000 0 0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	То Со	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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F,MH-47G,MH-60M,UAS

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P-1 Line #28

Exh	bit P-	3A, I	ndivi	dua	ıl Modi	ficati	on: P	B 201	13 Arr	ny													[	Date	: Feb	ruary	2012				
	r <b>opria</b> A / B				t Activi	ty / E	Budge	t Sul	o Acti	vity:					Nome rne Av								(	Моа	lificati	on Ti	omeno tle, Mo cs - 00	difica		Numl	ber):
F,U		L/M/	Q,HH	-60	ected: L/M,AH			I-58D	)/						ational atibility					ation,	Re	lated	I RDT&	E PI	Es:						
Insta	lation:	Joint	Tactica	l Ra	dio Syste	m (JTI	RS)			- 1	lethod evel In:			ntation	: Modifi	ication	n Work	Order	(MW	O) Dep		allatio	on Name	:							
Insta	lation	Sched	lule																												
			FY 2	2011			FY 2	2012			FY 2	2013			FY 2	014			F	Y 2015			FY 20	16			FY 20	)17			
	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	-	0	0		0 0	0	0	0	0	0	0	0	0	0	0	0	0	C	)	0 (	0	0	0	0	0	0	0	0	0	0	0
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										Qty		al Cost		Qty	Total	Cost	Qt			al Cost	Qty		Total Cost		Qty		tal Cost		ty		l Cost
	lation									(Each)	(	(\$ M )	(E	Each)	(\$ A	M)	(Eac	ch)		SM)	(Each)	1	(\$ M)		(Each)		(\$ M )		ach)	(\$	M)
	or Yea	s									30	2.40		(		0.000		0		0.000		0	0.00			0	0.000		0		0.000
FY 20											0	0.00	10	(	'	0.000		0		0.000		0	0.00	0		0	0.000		0		0.000
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FY 20										-		-		-		-		-		-		-	-						-		
FY 20										-				-				-		-			-						-		
FY 20												-				-		-		-		-	-						-		
FY 20																		-		-		-									
FY 20																-		-		-		-									
Total	mplete										30	2.40	10		)	0.000		- 0		0.000		0	0.00	0		0	0.000		0		0.000
Total																										-					
										F۱	2014			FY	2015			FY 2	016			FY 20	17		To C	omple	ete		То	tal	
Insta	lation	Cost								<b>Qty</b> (Each)		al Cost		<b>Qty</b> Each)	Total (\$ A		Qt (Eac			I Cost	<b>Qty</b> (Each)		Total Cost (\$ M)		Qty (Each)		tal Cost (\$ M )		lty ach)		I Cost
All Pr	or Yea	s									0	0.00	0	C	)	0.000		0		0.000		0	0.00	0		0	0.000		80		2.400
FY 20	11										0	0.00	0	C	)	0.000		0		0.000		0	0.00	0		0	0.000		0		0.000
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FY 20	112																	- 1													

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		UNULAC						
Exhibit P-3A, Individual Modification: PB 2013 Army	1					Date: February	2012	
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10		ine Item Nomei '00 - Airborne Av				Modification N (Modification Ti Airborne Avioni	itle, Modification	Number <b>):</b>
Models of Systems Affected: CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		cation: Rational lity, Compatibility			Related RDT	&E PEs:		
Installation: Mil Flight Operation Quality Assurance (MFOQA)	Method of Imp	lementation: Not Ap	plicable		Installation Nar	ne:		
	FY 2014	FY 2015	FY	2016	FY 2017	To Comple	ete To	otal
Installation Cost Qt (Ea		Qty Total ( (Each) (\$ M		Total Cost (\$ M)	Qty Total Co		otal Cost	Total Cost (\$ M)
FY 2014		-		-	-			-
FY 2015		-		-	-			-
FY 2016		-		-	-			-
FY 2017		-		-	-			-
To Complete		-		-	-			-
Total	0.000	0	0.000	0.000	0 0	.000	0.000 80	2.400
Installation Schedule								
FY 2011 FY 2012	FY 2013	FY 20		FY 2015		2016	FY 2017	
	1 2 3	4 1 2	3 4 1	2 3	4 1 2	3 4 1	2 3 4	TC Tot
In 80 0 0 0 0 0 0 0 0	0 0 0	0 0 0		0 0 0				0 80
Out 80 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	0 80
Installation: Improved Data Modem (IDM)	Method of Imp	lementation: Aircraf	t Platform Produc	ction Facility	Installation Nar	ne:		
	Prior Years	FY 2011		2012	FY 2013 Base	FY 2013 O	CO EV 20°	13 Total
Ot		Qty Total 0		Total Cost	Qty Total Co		otal Cost Qty	Total Cost
Installation Cost (Ea	ch) (\$ M )	(Each) (\$ N	(Each)	(\$ M )	(Each) (\$ M)	(Each)	(\$ M ) (Each)	(\$ M )
All Prior Years	0 0.000		0.000 0			.000 0	0.000 0	
FY 2011	0 0.000		0.000 0	0.000		.000 0	0.000 0	
FY 2012		-		-	-			-
FY 2013		-		-	-			-
FY 2014		-		-	-			-
FY 2015		-		-	-			-
FY 2016		-		-	-			-
FY 2017		-		-	-			-
To Complete		- 0	0.000	- 0.000	- 0 0			- 0.000
Total	0.000	0	0.000	0.000	0 0	.000	0.000 0	0.000

LI AA0700 - Airborne Avionics Army UNCLASSIFIED
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Installation Cost	
Interoperability   Compatibility   Simplification   F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/F,MH-47G,MH-60M,UAS   Interoperability   Compatibility   Simplification   Installation   Ins	
FY 2014   FY 2015   FY 2016   FY 2017   To Complete	
Note   Cost	
Installation Cost	Total
FY 2011 0 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2012 FY 2013	Qty Total Cost (\$ M )
FY 2012	0 0.000
FY 2013	0 0.000
FY 2014	
57,0045	
FY 2015	
FY 2016	
FY 2017	
To Complete	
Total 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000	0.000
Installation Schedule	
FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017	
APY 1 2 3 4 1 3 4 1 2	4 TC Tot
In	0 0 0
	0 0 0
Installation: Aviation Mission Planning System (AMPS)  Method of Implementation: Not Applicable  Installation Name:	
Prior Years FY 2011 FY 2012 FY 2013 Base FY 2013 OCO F	FY 2013 Total
	Qty Total Cost
All Prior Years 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000	0 0.000
FY 2011 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000	0 0.000
FY 2012	
FY 2013	
FY 2014	
FY 2015	
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P-1 Line #28

											•																	
Exhib	it P-3A, Individual Modification: PB 2013 Army opriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:															D	ate: l	Febru	uary	2012								
	•	tion / Bu A 2 / BSA	_	ctivit	y / Bud	lget Sul	b Ac	tivity:					<b>omencl</b> ne Avior		:					(/	∕lodifi	icatio	n Tit	omeno tle, Mo cs - 00	dificat		Numb	per)
F,UH-6	60A/	Systems L/M/Q,HI ,MH-60M	H-60L/M				D/						tionaliza tibility, S				zation,	Rel	lated	RDT&E	E PEs	<b>&gt;</b> :						
Installa	tion:	Aviation Mis	ssion Plar	nning S	System (A	AMPS)		М	ethod	of Impl	ementa	ation:	Not Applie	cable				Inst	allati	on Name:								
						,		Prio	r Year	s		FY 2	011	FY 2012			FY	2013	Base	ı	FY 20°	13 OC	0	F`	Y 201	3 Tota	al	
Installa	tion (	Cost						Qty (Each)		al Cost	Qt: (Eac		Total Cost		Qty ach)		tal Cost	Qty (Each)		Total Cost		Qty ach)		al Cost	Qty (Eac			Cost
FY 2016					-		-		-	-		-		-		-	-		-		-		-		-			
FY 2017	Y 2017				-		-		-	-		-		-		-	-		-		-		-		-			
To Com	o Complete				-		-		-	-		-		-		-	-		-		-		-		-			
Total							0	0.000		0	0.00	00	C	)	0.000		0	0.000		0	,	0.000		0		0.00		
								FY	2014			FY 2	015	T	FY	2016	;	F	FY 20	117		То Со	mple	te		Tot	tal	
Installa	tion (	Cost						Qty (Each)		al Cost	Qty (Eac		Total Cost		Qty ach)		tal Cost	Qty (Each)		Total Cost	C	Qty ach)	Tota	al Cost	Qty (Eac			Cost
All Prior	Year	'S							0	0.000	(200	0	0.00	,	0	+ '	0.000	(2001.)	0	0.000	,	0	+ '	0.000	(200	0	(0.	0.00
FY 2011	1								0	0.000		0	0.00	00	C	)	0.000		0	0.000		0	)	0.000		0		0.00
FY 2012	2							-		-		-	-		-		-		-	-		-		-		-		-
FY 2013	3							-		-		-	-		-		-		-	-		-		-		-		-
FY 2014	4							-		-		-	-		-		-		-	-		-		-		-		-
FY 2015	5							-		-		-	-		-		-		-	-		-		-		-		-
FY 2016	3							-		-		-	-		-		-		-	-		-		-		-		-
FY 2017	7							-		-		-	-		-		-		-	-		-		-		-		-
To Com	plete							-		-		-	-		-		-		-	-		-		-		-		-
Total									0	0.000		0	0.00	00	C		0.000		0	0.000		0	1	0.000		0		0.00
Installa	tion S	Schedule																										
		FY	2011		F	FY 2012			FY 2	2013			FY 2014			F	FY 2015			FY 201	6			FY 20	17			
	<b>APY</b>	1 2	3	4		2 3	4	1	2	3	4	1	2 3	_	1	_	2 3	4	1			4	1	2	3	4	тс	Tot
ln	-		0 0	0	0	0 0	+	0 0	0	0	0	0	0		_	0	0 0		С		0	0	0	0	0	0	0	
Out				0	0	0 0		0 0	0	0	0	0	0	0	0	0	0 0	0	C	0 0	0	0		0	0			

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :

AA0712 - Network And Mission Plan

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Prograi	n Elements f	or Code B Ite	ms:	Other Related Program Elements:						
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	1,662	1,881	-	1,881	566	245	233	1,368	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
(The fo.	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)	,		

(The follow	wing Resource	Summary rows	are for informat	tional purposes	only. The corre	esponding budge	et requests are	documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	82.089	101.430	-	101.430	322.694	819.318	1,096.305	135.822	Continuing	Continuing

#### **Description:**

The Network and Mission Plan budget line includes the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), the Aviation Data Exploitation Capability (ADEC), the Aircraft Notebook (ACN), Apache Interoperability, 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-64A/D, CH-47D/F, OH-58D 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 Automated Flight Record 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 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker's MT-2011 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.

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.

Apache Interoperability is the software modification to integrate the IDM Open System Architecture (OSA) product into the AH-64. The IDM OSA product is the Future Airborne Capability Environment (FACE) compliant product as part of the Army Common Operating Environment.

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LI AA0712 - Network And Mission Plan Army

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army	ate: February 2012
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Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 2 : 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:

The HTAWS will integrate and test technology to reduce the risks of Degraded Visual Environment resulting in Controlled Flight into Terrain. The system will be integrated on CH-47F, AH-64D, OH-58D, and UH-60 modernized aircraft.

The ALE-P will replace the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) 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. ALE-P will be a combination of software and hardware that forms a Decision Support System which receives, processes, analyzes, and transmits data from Quality Control, Production Control, Tech Supply, Backshop, and Phase Module activities. ALE-P will seamlessly interface with the Aircraft Notebook (ACN) and the Aviation Data Exploitation Capability (ADEC) as an integrated Family of Systems.

Item Sche	Item Schedule		em Schedule Prior Years		'S	FY 2011			FY 2012			FY 2013 Base			FY	′ 2013 O	CO	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
Network and Mission Plan - 0000	P3A		-	-	-	-	-	-	82.089	-	136.432	101.430	-	190.789	-	-	-	101.430	-	190.789
Total Gross/Weapon System Cost					-			=			136.432			190.789			=			190.789
				FY 2014			FY 2015			FY 2016			FY 2017		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	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*  Network and Mission Plan - 0000	Exhibits P3A														(\$ K)					

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.

#### Justification:

FY 2013 Base procurement dollars in the amount of \$34.452 million supports the procurement of AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2013 is the second year of the latest cycle.

FY 2013 Base procurement dollars in the amount of \$115.248 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 2013 Base procurement dollars in the amount of \$22.276 million supports the procurement 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. ADEC is the transformation system required for interoperability with the Army's future logistic systems.

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LI AA0712 - Network And Mission Plan Army

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Exhibit P-40, Budget Item Justification Shee	et: PB 2013 Army		Date: February 2012					
Appropriation / Budget Activity / Budget Su 2031A : Aircraft Procurement, Army / BA 2 : Mo Modification Of Aircraft								
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code E	3 Items:	Other Related Program Elements:					
FY 2013 Base procurement dollars in the amount of \$8.8 materials to support schoolhouse training efforts necess		ing, fielding and help desk	equipment for the ACN. In addition it will support the procure	ment of the training				
FY 2013 Base procurement dollars in the amount of \$10 receive, process, analyze, and transmit data from Qualit			P systems for Army aircraft. This program will provide users vactivities.	with the capability to				
All COMPO 1 Active								
In accordance with section 1815 of the FY 2008 National defense missions, domestic emergency responses and		his item is necessary for us	se by the active and reserve components of the Armed Forces	, for homeland				

LI AA0712 - Network And Mission Plan Army

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature:  AA0712 - Network And Mission Plan	Modification Nomenclature (Modification Title, Modification Number): Network and Mission Plan - 0000
1	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	Related RDT&E PEs:

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	136.432	190.789	-	190.789	182.645	200.733	255.439	185.804	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	82.089	101.430	_	101.430	322.694	819.318	1,096.305	135.822	Continuing	Continuing

#### **Description:**

The Network and Mission Plan budget line includes the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), the Aviation Data Exploitation Capability (ADEC), the Aircraft Notebook (ACN), Apache Interoperability, 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-64A/D, CH-47D/F, OH-58D 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 Automated Flight Record 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 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker's MT-2011 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.

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.

Apache Interoperability is the software modification to integrate the IDM Open System Architecture (OSA) product into the AH-64. The IDM OSA product is the Future Airborne Capability Environment (FACE) compliant product as part of the Army Common Operating Environment.

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LI AA0712 - Network And Mission Plan

Army

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P-1 Line #29

		UNCLASSIFIED		
Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	<b>/</b> :	P-1 Line Item Nomenclature: AA0712 - Network And Mission Plan		Modification Nomenclature (Modification Title, Modification Number): Network and Mission Plan - 0000
Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS		<b>Modification:</b> Rationalization, Standardization, perability, Compatibility, Simplification	Related RDT	&E PEs:
The HTAWS will integrate and test technology to reduce the risks of UH-60 modernized aircraft.  The ALE-P will replace the Unit Level Logistics System-Aviation (Enfor the UAS community. ALE-P will provide an Aviation enterprise ca Support System which receives, processes, analyzes, and transmits ACN and the ADEC as an integrated Family of Systems.	hanced) pability i	(ULLS-A[E]) and the Unmanned Aviation Systems-Initiative (Uinterface to the Global Combat Support System-Army. ALE-P v	IAS-I) which currer	ntly only provides automated logistics capabilities on of software and hardware that forms a Decision

FY 2013 Base procurement dollars in the amount of \$34.452 million supports the procurement of AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2013 is the second year of the latest cycle.

FY 2013 Base procurement dollars in the amount of \$115.248 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 2013 Base procurement dollars in the amount of \$22.276 million supports the procurement and installation 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. ADEC is the transformation system required for interoperability with the Army's future logistic systems.

FY 2013 Base procurement dollars in the amount of \$8.813 million supports the procurement of training, fielding and help desk equipment. In addition it will support the procurement of the training materials to support schoolhouse training efforts necessary to support the ACN.

FY 2013 Base procurement dollars in the amount of \$10.000 million supports the procurement, training, and installation of ALE-P systems for Army aircraft. 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.

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

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

2031A / BA 2 / BSA 10 AA0712 - Network And Mission Plan (Modification Title, Modification Number): Network and Mission Plan - 0000

Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/O, HH-60L/M, UAS Type Modification: Rationalization, Standardization, Related RDT&E PEs:

Interoperability Compatibility Simplification

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos (\$ M)						
Procurement												
Aviation Mission Planning System (AMPS) (1)												
B Kits												
Recurring												
Kit Quantity- (Computer)	0	0.000	0	0.000	1,180	11.587	1,020	10.127	0	0.000	1,020	10.13
ECPs	0	0.000	0	0.000	0	14.893	0	12.950	0	0.000	0	12.9
Systems Engineering	0	0.000	0	0.000	0	1.237	0	1.258	0	0.000	0	1.2
System Test and Eval	0	0.000	0	0.000	0	1.829	0	1.789	0	0.000	0	1.7
Fielding/Training	0	0.000	0	0.000	0	7.086	0	6.965	0	0.000	0	6.9
Other- PM Admin	0	0.000	0	0.000	0	1.596	0	1.363	0	0.000	0	1.3
Subtotal Recurring		0.000		0.000		38.228		34.452		0.000		34.4
Total, Aviation Mission Planning System (AMPS)	0	0.000	0	0.000	1,180	38.228	1,020	34.452	0	0.000	1,020	34.4
Aviation Data Exploitation Capability (ADEC) (2)												
B Kits												
Recurring												
Kit Quantity- ADEC Bn Sets	0	0.000	0	0.000	0	0.000	32	11.806	0	0.000	32	11.80
ECP (SW)	0	0.000	0	0.000	0	0.000	0	2.805	0	0.000	0	2.8
Data	0	0.000	0	0.000	0	0.000	0	0.498	0	0.000	0	0.49
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.642	0	0.000	0	0.6
System Test & Eval	0	0.000	0	0.000	0	0.000	0	0.365	0	0.000	0	0.3
Fielding/Training	0	0.000	0	0.000	0	0.000	0	5.330	0	0.000	0	5.3
Other- PM Admin	0	0.000	0	0.000	0	0.000	0	0.830	0	0.000	0	0.8
Subtotal Recurring		0.000		0.000		0.000		22.276		0.000		22.2
Total, Aviation Data Exploitation Capability (ADEC)	0	0.000	0	0.000	0	0.000	32	22.276	0	0.000	32	22.2
Improved Data Modem (IDM) (3)		'		'		'				-	'	
B Kits												
Recurring												

LI AA0712 - Network And Mission Plan Army

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10

AA0712 - Network And Mission Plan (Modification Title, Modification Number): Network and Mission Plan - 0000

Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/O, HH-60L/M, UAS Type Modification: Rationalization, Standardization, Related RDT&E PEs:

Interoperability Compatibility Simplification

	Prior	Years	FY	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
Kit Quantity- IDM	(	0.000	0	0.000	412	9.776	320	7.719	0	0.000	320	7.71
Kit Quantity- IDM OSA	(	0.000	0	0.000	70	1.890	509	13.963	0	0.000	509	13.96
Aircraft Integration	C	0.000	0	0.000	0	65.457	0	75.199	0	0.000	0	75.19
ECP (SW)	C	0.000	0	0.000	0	8.876	0	6.894	0	0.000	0	6.89
Systems Engineering	C	0.000	0	0.000	0	1.921	0	2.306	0	0.000	0	2.30
System Test & Eval	C	0.000	0	0.000	0	5.782	0	5.905	0	0.000	0	5.90
Fielding/Training	C	0.000	0	0.000	0	0.517	0	0.532	0	0.000	0	0.53
Other- PM Admin	C	0.000	0	0.000	0	2.740	0	2.730	0	0.000	0	2.73
Subtotal Recurring		0.000		0.000		96.959		115.248		0.000		115.24
Total, Improved Data Modem (IDM)	C	0.000	0	0.000	482	96.959	829	115.248	0	0.000	829	115.24
Apache Interoperability <sup>(4)</sup>												
B Kits												
Recurring												
Aircraft Integration	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Other- PM Admin	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Apache Interoperability	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Aircraft Notebook (ACN) (5)												
B Kits												
Recurring												
ECP (SW)	C	0.000	0	0.000	0	0.000	0	2.675	0	0.000	0	2.67
Data	C	0.000	0	0.000	0	0.000	0	0.236	0	0.000	0	0.23
Systems Engineering	C	0.000	0	0.000	0	0.000	0	0.755	0	0.000	0	0.75
System Test	C	0.000	0	0.000	0	0.000	0	0.241	0	0.000	0	0.24
Fielding/Training	C	0.000	0	0.000	0	1.208	0	4.406	0	0.000	0	4.40
Other- PM Admin	C	0.000	0	0.000	0	0.037	0	0.500	0	0.000	0	0.50
Subtotal Recurring		0.000		0.000		1.245		8.813		0.000		8.81

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		UNC	LASSI	FIED								
Exhibit P-3A, Individual Modification: PB 2013 Army								Date:	ebruary	2012		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10		e Item No 2 - Netwo		ature: ⁄lission Pla	an			(Modifi	cation Ti	omencla tle, Modifi ission Pla	ication N	,
	ype Modifica					on, <b>Re</b> l	lated RD	T&E PES	:			
-	Prior	Years	FY	2011	FY:	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Total, Aircraft Notebook (ACN)	0		C	0.000	0		0	8.813	0	0.000	0	8.81
Helicopter Terrain Avoidance and Warning System <sup>(6)</sup>						1						-
B Kits												
Recurring												
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.000
Total, Helicopter Terrain Avoidance and Warning System	0	0.000	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aviation Logistics Enterprise-Platform (ALE-P) (7)												
B Kits										1		
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	10.000	0	0.000	0	10.000
Subtotal Recurring		0.000		0.000		0.000		10.000		0.000		10.000
Total, Aviation Logistics Enterprise-Platform (ALE-P)	0	0.000	C	0.000	0	0.000	0	10.000	0	0.000	0	10.000
Total, All Modifications		0.000		0.000		136.432		190.789		0.000		190.78
Procurement Cost (Procurement + Support)		0.000		0.000		136.432		190.789		0.000		190.78
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		0.000
Total Cost (Procurement + Support + Installation)		0.000		0.000		136.432		190.789		0.000		190.789
	EV 1	2014	EV	2015	EV	2016	EV 2	2017	To Cor	mplete	Tot	tal
Financial Plan	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
Financial Plan Procurement	(Each)	(\$ M )	(Each)	(\$ M)	(Each)	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M )
Aviation Mission Planning System (AMPS) (1)												-
B Kits		-										
Recurring												
Kit Quantity- (Computer)	0	0.000	30	0.363	30	0.369	1,170	12.420	0	0.000	3,430	34.866
ECPs	0	12.089	0	13.670	0	15.472	0	12.412	0	0.000	0	81.486
						1						

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P-1 Line #29

Exhibit P-3A, Individual Modification: PB 2013 Army

P-1 Line Item Nomenclature: Modification Nomenclature

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

AA0712 - Network And Mission Plan

(*Modification Title, Modification Number*): Network and Mission Plan - 0000

Date: February 2012

Models of Systems Affected: AH-64A/D, CH-47D/F,

Type Modification: Rationalization, Standardization,

Related RDT&E PEs:

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cos
Systems Engineering	0	1.279	0	1.301	0	1.323	0	1.345	0	0.000	0	7.7
System Test and Eval	0	1.871	0	1.829	0	1.935	0	1.892	0	0.000	0	11.1
Fielding/Training	0	7.064	0	7.196	0	7.596	0	7.803	0	0.000	0	43.7
Other- PM Admin	0	1.289	0	1.301	0	1.218	0	1.701	0	0.000	0	8.4
Subtotal Recurring		23.592		25.660		27.913		37.573		0.000		187.4
Total, Aviation Mission Planning System (AMPS)	0	23.592	30	25.660	30	27.913	1,170	37.573	0	0.000	3,430	187.4
Aviation Data Exploitation Capability (ADEC) (2)												
B Kits												
Recurring												
Kit Quantity- ADEC Bn Sets	32	12.007	32	12.211	27	12.419	27	10.662	0	0.000	150	59.1
ECP (SW)	0	5.118	0	5.341	0	8.822	0	7.577	0	0.000	0	29.6
Data	0	0.507	0	0.515	0	0.524	0	0.533	0	0.000	0	2.5
Systems Engineering	0	0.839	0	0.856	0	0.869	0	0.884	0	0.000	0	4.0
System Test & Eval	0	0.275	0	0.279	0	0.284	0	0.289	0	0.000	0	1.4
Fielding/Training	0	5.140	0	5.227	0	5.316	0	3.307	0	0.000	0	24.3
Other- PM Admin	0	0.907	0	1.057	0	1.023	0	1.093	0	0.000	0	4.9
Subtotal Recurring		24.793		25.486		29.257		24.345		0.000		126.
Total, Aviation Data Exploitation Capability (ADEC)	32	24.793	32	25.486	27	29.257	27	24.345	0	0.000	150	126.1
Improved Data Modem (IDM) (3)												
B Kits												
Recurring												
Kit Quantity- IDM	146	4.129	0	0.000	0	0.000	0	0.000	0	0.000	878	21.0
Kit Quantity- IDM OSA	388	10.825	183	5.192	171	4.934	171	5.018	0	0.000	1,492	41.
Aircraft Integration	0	75.218	0	67.449	0	78.233	0	65.340	0	0.000	0	426.
ECP (SW)	0	7.003	0	10.681	0	44.930	0	11.047	0	0.000	0	89.
Systems Engineering	0	2.540	0	2.615	0	2.692	0	2.772	0	0.000	0	14.
System Test & Eval	0	6.035	0	6.167	0	6.303	0	6.441	0	0.000	0	36.6

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0712 - Network And Mission Plan

(Modification Nomenclature (Modification Title, Modification Number):

Network and Mission Plan - 0000

Models of Systems Affected: AH-64A/D, CH-47D/F, Type Modification: Rationalization, Standardization, Related RDT&E PEs:

OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS Interoperability, Compatibility, Simplification

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	To	tal
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 )
Fielding/Training	0	0.567	0	0.563	0	0.580	0	0.596	0	0.000	0	3.355
Other- PM Admin	0	2.815	0	2.830	0	3.071	0	2.969	0	0.000	0	17.155
Subtotal Recurring		109.132		95.497		140.743		94.183		0.000		651.762
Total, Improved Data Modem (IDM)	534	109.132	183	95.497	171	140.743	171	94.183	0	0.000	2,370	651.762
Apache Interoperability <sup>(4)</sup>										·		
B Kits												
Recurring												
Aircraft Integration	0	5.000	0	11.000	0	9.700	0	0.000	0	0.000	0	25.700
Other- PM Admin	0	0.110	0	0.223	0	0.155	0	0.000	0	0.000	0	0.488
Subtotal Recurring		5.110		11.223		9.855		0.000		0.000		26.188
Total, Apache Interoperability	0	5.110	0	11.223	0	9.855	0	0.000	0	0.000	0	26.188
Aircraft Notebook (ACN) (5)												
B Kits												
Recurring												
ECP (SW)	0	2.540	0	1.962	0	2.386	0	2.542	0	0.000	0	12.105
Data	0	0.079	0	0.081	0	0.253	0	0.259	0	0.000	0	0.908
Systems Engineering	0	0.778	0	0.801	0	0.825	0	0.850	0	0.000	0	4.009
System Test	0	0.387	0	0.396	0	0.892	0	1.017	0	0.000	0	2.933
Fielding/Training	0	4.505	0	3.912	0	1.656	0	1.964	0	0.000	0	17.651
Other- PM Admin	0	0.515	0	0.487	0	0.447	0	0.508	0	0.000	0	2.494
Subtotal Recurring		8.804		7.639		6.459		7.140		0.000		40.100
Total, Aircraft Notebook (ACN)	0	8.804	0	7.639	0	6.459	0	7.140	0	0.000	0	40.100
Helicopter Terrain Avoidance and Warning System <sup>(6)</sup>												
B Kits												
Recurring												
Aircraft Integration	0	0.000	0	22.877	0	27.260	0	10.359	0	0.000	0	60.496
Systems Engineering	0	0.000	0	1.656	0	1.450	0	1.641	0	0.000	0	4.747

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Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA0712 - Network And Mission Plan		Modification Nomenclature (Modification Title, Modification Number): Network and Mission Plan - 0000
Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D. UH-60A/L/M/Q. HH-60L/M. UAS		<b>Modification:</b> Rationalization, Standardization, perability, Compatibility, Simplification	Related RDT	&E PEs:

	<u> </u>	•		· · · · · · · · · · · · · · · · · · ·	r					T		,
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	To	tal
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
Subtotal Recurring		0.000		24.533		28.710		12.000		0.000		65.24
Total, Helicopter Terrain Avoidance and Warning System	0	0.000	0	24.533	0	28.710	0	12.000	0	0.000	0	65.24
Aviation Logistics Enterprise-Platform (ALE-P) (7)												
B Kits												
Recurring												
Equipment	0	11.214	0	10.695	0	12.502	0	10.563	0	0.000	0	54.97
Subtotal Recurring		11.214		10.695		12.502		10.563		0.000		54.97
Total, Aviation Logistics Enterprise-Platform (ALE-P)	0	11.214	0	10.695	0	12.502	0	10.563	0	0.000	0	54.97
Total, All Modifications		182.645		200.733		255.439		185.804		0.000		1,151.84
Procurement Cost (Procurement + Support)		182.645		200.733		255.439		185.804		0.000		1,151.84
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		0.00
Total Cost (Procurement + Support + Installation)		182.645		200.733		255.439		185.804		0.000		1,151.84

#### Remarks:

FY 2013 Base procurement dollars in the amount of \$34.452 million supports the procurement of AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2013 is the second year of the latest cycle.

FY 2013 Base procurement dollars in the amount of \$22.276 million supports the procurement of ADEC hardware systems for Army rotary wing units.

FY 2013 Base procurement dollars in the amount of \$115.248 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. IDM provides systems to aircraft platform PMs who are responsible for installation through the production lines and field retrofits.

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<sup>(1)</sup> The AMPS is used to automate Aviation mission planning tasks. The AMPS interfaces with the AMCS components, which furnish the aviation commander with continuous situational awareness allowing the commander to rapidly adjust mission plans. AMPS is fielded from the Army through Aviation Company, centered in the Combat Aviation Brigade. Since the airframes have the responsibility for the data receptacles/busses required to interface with AMPS, there is no installation cost/schedule. FY 2013 is the second year of the latest replacement cycle.

<sup>(2)</sup> The Aviation Data Exploitation Capability (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 consists of an integrated set of software tools fielded at the battalion level on stand-alone, non-developmental ruggedized computer workstations and servers. The ADEC quantities on the Financial Plan reflect Battalion sets. One set consists of 12 workstations, 2 servers, and ancillary equipment. A tech refresh begins in FY 2016. There is no installation of ADEC because it consists of loading software on a server which is done by training/fielding teams.

<sup>(3)</sup> The IDM hardware/software solution provides a flexible, software-driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems to provide 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.

Exhibit P-3A, Indivi	idual Modification: P	B 2013 Army				Date: February 2012	2
<b>Appropriation / Buo</b> 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity:	P-1 Line Item No AA0712 - Networ	emenclature: k And Mission Plan		Modification Nome (Modification Title, M Network and Mission	Modification Number):
	Affected: AH-64A/D M/Q, HH-60L/M, UAS			onalization, Standardizatio bility, Simplification	n, Related RD	OT&E PEs:	
compliant product as pa	art of the Army Common O	perating Environment. Apac	ce Interoperability cons	e (OSA) product into the AH-64. ists of software modifications, the	refore no installation i	s required.	
and fielding efforts.	e the digital logbook fullclion	Tto perioriii aviation mainte	enance enorts at the an	rciall by providing a common soil	ation for all marined av	nation plationns. I rocureme	Tit is to support training
materials to support scl	hoolhouse training efforts n	ecessary to support the AC	N.	ning, fielding and help desk equip			•
for the CH-47F, AH-64I	D, OH-58D, and UH-60 mo	dernized aircraft, and as a r	esult, there are no inst				
provides automated log combination of software	gistics capabilities for the Ua e and hardware that forms vities. ALE-P will interface	AS community. ALE-P will p a Decision Support System	provide an Aviation ento (DSS) which receives,	ansitioned into sustainment and the erprise capability interface to the processes, analyzes, and transmily of Systems. There is no install	Global Combat Suppo nits data from Quality (	ort System-Army (GCSS-Arm Control, Production Control,	y). ALE-P will be a Tech Supply, Backshop,
FY 2013 Base procurer	ment dollars in the amount	of \$10.00 million supports tl	he procurement, trainir	ng and installation of ALE-P syste	ms for Army aircraft.		
Manufacturer Information	on: Aviation Mission Plan	ning System (AMPS)					
Manufacturer Name: AMF	RDEC Software Engineerin	g Directorate		Manufacturer Location: Red	stone Arsenal, AL		
Administrative Leadtime (	(in Months):			Production Leadtime (in Moi	nths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Aviation Data Exploita	tion Capability (ADEC)					
Manufacturer Name: AMF	RDEC Software Engineerin	g Directorate		Manufacturer Location: Red	stone Arsenal, AL		
Administrative Leadtime (	(in Months):			Production Leadtime (in Moi	nths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Information	on: Improved Data Moden	ı (IDM)		·			
Manufacturer Name: Sym	netrics Industries, LLC			Manufacturer Location: Melb	oorne, FL		
Administrative Leadtime (	(in Months):			Production Leadtime (in Moi	nths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
	1	1					1

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<b>Appropriation / Bu</b> 2031A / BA 2 / BS <i>A</i>	udget Activity / Budg A 10	et Sub Activity:	P-1 Line Item No AA0712 - Network	menclature: k And Mission Plan		Modification Nome (Modification Title, M Network and Mission	odification Number
_	s Affected: AH-64A/[ ./M/Q, HH-60L/M, UA		e Modification: Ration roperability, Compati	onalization, Standardization bility, Simplification	on, Related R	DT&E PEs:	
Manufacturer Informat	ion: Improved Data Mode	m (IDM)			1		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Delivery Dates							
Manufacturer Informat	ion: Apache Interoperabi	lity					
Manufacturer Name: AN	IRDEC Software Engineeri	ng Directorate		Manufacturer Location: Re	dstone Arsenal, AL		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informat	ion: Aircraft Notebook (A	CN)				•	
Manufacturer Name: AN	IRDEC Software Engineeri	ng Directorate		Manufacturer Location: Re	dstone Arsenal, AL		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informat	ion: Helicopter Terrain Av	oidance and Warning S	ystem				
Manufacturer Name: TB	D			Manufacturer Location: TB	D		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informat	ion: Aviation Logistics Er	nterprise-Platform (ALE-	P)	'		,	
Manufacturer Name: TB	D			Manufacturer Location: TB	D		
Administrative Leadtime	(in Months):			Production Leadtime (in Mo	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AA0712 - Network And Mission Plan

(Modification Title, Modification Number): Network and Mission Plan - 0000

Models of Systems Affected: AH-64A/D, CH-47D/F,

Type Modification: Rationalization, Standardization,

OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS

Interoperability, Compatibility, Simplification

Related RDT&E PEs:

Installation: Aviation Mission Planning System (AMPS)	Met	thod of Imple	ementation	Not Applica	ble		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY:	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	То	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #29

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 AA0712 - Network And Mission Plan (Modification Title, Modification Number): Network and Mission Plan - 0000 Models of Systems Affected: AH-64A/D, CH-47D/F, Type Modification: Rationalization, Standardization, Related RDT&E PEs: OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS Interoperability, Compatibility, Simplification Installation: Aviation Mission Planning System (AMPS) Method of Implementation: Not Applicable Installation Name: Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016** FY 2017 **APY** 1 2 4 2 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 4 2 3 4 TC 1 3 3 1 Tot In 0 Out 0 0 0 0 0 0 0 0 0 Installation: Aviation Data Exploitation Capability (ADEC) Method of Implementation: Not Applicable Installation Name: FY 2011 **Prior Years** FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total **Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty Qty **Total Cost** Installation Cost (Each) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) 0.000 0.000 0.000 0.000 0 0.000 0.000 All Prior Years 0 FY 2011 0.000 0.000 0.000 0 0.000 0 0 0 0.000 0 0.000 0 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 FY 2013 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2014 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 FY 2015 0 0.000 0.000 0.000 0 0.000 0.000 0 0.000 0 0 0 0.000 0.000 0 0.000 0.000 0 FY 2016 0.000 0 0 0 0.000

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Cor	nplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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LI AA0712 - Network And Mission Plan Army

FY 2017

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To Complete

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P-1 Line #29

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Exhibit P-3A, Individual Modification: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A / BA 2 / BSA 10(Modification Title, Modification Number):<br/>Network And Mission Plan(Modification Title, Modification Number):<br/>Network and Mission Plan - 0000Models of Systems Affected: AH-64A/D, CH-47D/F,Type Modification: Rationalization, Standardization,Related RDT&E PEs:

Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS

Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification

Installation: Aviation Data Exploitation Capability (ADEC)	Me	thod of Impl	ementation	Not Applica	ble		Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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)
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Improved Data Modem (IDM)	Me	thod of Impl	ementation:	Aircraft Plat	form Produc	tion Facility	Installa	tion Name:		·		
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 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	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	(	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #29

				UNC	CLASSIF	FIED							
Exhibit P-3A, Individual Modification	n: PB 2013	Army							D	ate: Febru	uary 2012		
Appropriation / Budget Activity / Bu 2031A / BA 2 / BSA 10	dget Sub A	ctivity:		ine Item N 12 - Netwo			n		(/	Modificatio	on Nomend on Title, Mod ad Mission F	dification I	
Models of Systems Affected: AH-64AOH-58D, UH-60A/L/M/Q, HH-60L/M, U			•	cation: Ra ity, Compa		,		Relate	ed RDT&I	E PEs:			
Installation: Improved Data Modem (IDM)		Me	thod of Imp	lementation:	: Aircraft Plat	tform Produc	tion Facility	Installa	ition Name:				
		FY	2014	FY 2	2015	FY	2016	FY 2	2017	То Со	mplete	То	tal
Installation Cost		Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
All Prior Years		0	11. /	0	0.000	` ′	ļ (· /		· ' '	· , ,	+ · · · /	0	· ' /
FY 2011		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Installation Schedule												<del></del>	,
FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	i .	FY 201	16	FY 20	17	
APY 1 2 3 4 1		4 1	2 3	4 1	2 3	4 1	2 3			3 4	1 2	3 4	TC Tot
In - 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 0
Out - 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	0 0
Installation: Apache Interoperability		Me	thod of Imp	lementation:	: Not Applica	ıble		Installa	ition Name:				
			Years	1	2011	1	2012	FY 201	3 Base	FY 20	13 OCO	FY 201	3 Total
Installation Cost		Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
All Prior Years		(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	(Each)	(\$ M ) 0.000	( <i>Each</i> )	(\$ M ) 0.000	(Each)	(\$ M ) 0.000
FY 2011		0		0	0.000			0				0	0.000
FY 2012		0		0	0.000			0				0	0.000
FY 2013		0		0	0.000			0				0	0.000
FY 2014		0	0.000	0	0.000	0	0.000	0	0.000	0 0	0.000	0	0.000
FY 2015		0	0.000	0	0.000	0	0.000	0	0.000	0 0	0.000	0	0.000
FY 2016		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #29

					UNC	CLAS	SIF	IED													
Exhibit P-3A, Individual Modification: PB 2013	3 Army												D	ate:	Febr	uary	2012				
Appropriation / Budget Activity / Budget Sub 2031A / BA 2 / BSA 10	Activity:					lomen ork And			Plan	1			(/	Modi	ficatio	n Tit	omeno le, Mo ssion	difica	ation		per):
Models of Systems Affected: AH-64A/D, CH-47 OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS						itionali itibility				ardization,	Re	lated	RDT&I	E PE	s:						
Installation: Apache Interoperability	Me	thod of	f Imple	ement	tation:	Not Ap	plicab	ole			Ins	tallatio	on Name:								
	Prior	Years			FY 2	2011			FY 2	2012	FY	2013	Base		FY 20	13 OC	0		FY 20	13 Tota	al
nstallation Cost	Qty (Each)	Total (		Q (Ea	ity ach)	Total C		Qty (Eac		Total Cost (\$ M)	Qty (Each		Total Cost		<b>Qty</b> Each)		al Cost		Oty ach)		Cost
-Y 2017	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.00
To Complete	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(		0.000		0		0.000
Total	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
	FY	2014			FY 2	2015			FY 2	2016		FY 20	17		To Co	mplet	e		To	otal	
nstallation Cost	Qty (Each)	Total (		Q (Ea	i <b>ty</b> ach)	Total C		Qty (Eac	<i>(</i> :h)	Total Cost	Qty (Each		Total Cost	(E	<b>Qty</b> Each)		al Cost	(E	<b>lty</b> ach)		Cost
All Prior Years	0		0.000		0	(	0.000		0	0.000		0	0.000	)	,		0.000	,	0		0.000
FY 2011	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(		0.000		0		0.000
FY 2012	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
FY 2013	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
FY 2014	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
FY 2015	0		0.000		0	(	0.000		0	0.000		0	0.000	)	C	)	0.000		0		0.000
FY 2016	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
FY 2017	0		0.000		0		0.000		0	0.000		0	0.000		(		0.000		0		0.000
To Complete	0		0.000		0		0.000		0	0.000		0	0.000		(		0.000		0		0.000
Total	0		0.000		0	(	0.000		0	0.000		0	0.000	)	(	)	0.000		0		0.000
Installation Schedule										_		1	_								
FY 2011 FY 2012		FY 20				FY 20				FY 2015	٦.		FY 20				FY 20				
APY 1 2 3 4 1 2 3	4 1	2	3	4	1	2	3	4	1	2 3	4	1		3	4	1	2	3	4	TC	Tot
n - 0 0 0 0 0 0 0 0 Out - 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
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nstallation: Aircraft Notebook (ACN)	Me	thod of	Imple	ement	tation:	Not Ap	plicab	ole			Ins	tallatio	on Name:								
	Prior	Years			FY 2	2011			FY 2	2012	FY	2013	Base		FY 20	13 OC	0		FY 20	13 Tota	al
	Qty	Total (			ty ach)	Total C		Qty (Eac	(,)	Total Cost	Qty		Total Cost		<b>Qty</b> Each)		I Cost	(	Qty ach)		Cost
nstallation Cost	(Each)	(\$ 10	'/	(	icii)	(φ IVI	/	(Eaci	11)	(\$ M )	(Each	リー	(\$ IVI )	( -	=acri)	( )	SM)	(=	acii)	1,4	

LI AA0712 - Network And Mission Plan Army

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature: AA0712 - Network And Mission Plan

**Modification Nomenclature** (Modification Title, Modification Number): Network and Mission Plan - 0000

2031A / BA 2 / BSA 10

Type Modification: Rationalization, Standardization,

Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS

Interoperability, Compatibility, Simplification

Related RDT&E PEs:

Installation: Aircraft Notebook (ACN)	Met	thod of Impl	ementation	: Not Applical	ble		Installa	tion Name:				
	Prior	Years	FY:	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	Tot	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED** 

Exhibit P-3A, Individual Modification: PB 2013 Army **Date:** February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2031A / BA 2 / BSA 10 (Modification Title, Modification Number): AA0712 - Network And Mission Plan Network and Mission Plan - 0000 Models of Systems Affected: AH-64A/D, CH-47D/F, Type Modification: Rationalization, Standardization, Related RDT&E PEs: OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS Interoperability, Compatibility, Simplification Installation: Aircraft Notebook (ACN) Method of Implementation: Not Applicable Installation Name: Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 APY TC Tot In Out Method of Implementation: TRD Installation Name: Installation: Heliconter Terrain Avoidance and Warning System

Installation: Helicopter Terrain Avoidance and Warning Syste	m   IVI e	tnod of impl	ementation	IBD			instalia	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI AA0712 - Network And Mission Plan Army

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Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0712 - Network And Mission Plan

(Modification Nomenclature (Modification Title, Modification Number): Network and Mission Plan - 0000

Models of Systems Affected: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS

**Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

Installation: Helicopter Terrain Avoidance and Warning System	n <b>Met</b>	hod of Impl	ementation	: TBD			Installa	tion Name:				
	FY 2	2014	FY	2015	FY:	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

LI AA0712 - Network And Mission Plan

			FY 2	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	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	-	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	0	0
Out	-	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	0	0

Installation: Aviation Logistics Enterprise-Platform (ALE-P)	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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Exhibit P-3A, Individual Modification: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:<br/>AA0712 - Network And Mission PlanModification Nomenclature<br/>(Modification Title, Modification Number):<br/>Network and Mission Plan - 0000Models of Systems Affected: AH-64A/D, CH-47D/F,<br/>OH-58D, UH-60A/L/M/Q, HH-60L/M, UASType Modification: Rationalization, Standardization,<br/>Interoperability, Compatibility, SimplificationRelated RDT&E PEs:

Installation: Aviation Logistics Enterprise-Platform (ALE-P)	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	FY 2	2014	FY 2	:015	FY 2	016	FY 2	017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule

			FY:	2011	_		FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016		,	FY 2	017			
	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	-	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	0	0
Out	-	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	0	0

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LI AA0712 - Network And Mission Plan Army

P-1 Line #29

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :

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:

The state of the s												
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The Global Positioning System (GPS) provides Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, Kiowa Warrior, and Special Operations fleets of helicopters. The P3I DGNS (AN/ASN-128D) 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-58D) and Special Operations Aircraft (SOA). M-code is a new GPS security architecture and signal in space, mandated to support navigation warfare (NAVWAR) requirements. In order to minimize aircraft integration and testing requirements, introduction of M-Code capable GPS receivers is planned to coincide with the JPALS program. A GPS anti-jamming antenna and electronics are being analyzed for future integration to meet NAVWAR requirements.

The Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure Alternative Communications (Alt Comms) A&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 integration activities for production and fielded aircraft installs and qualifies hardware and software to enable the operation of JTRS compliant radios with Wideband Networking Waveform (WNW), Soldier Radio Waveform (SRW) and/or other advanced networking waveforms. This program also provides for the procurement and installation of radio retrofit kits for use on platforms that were fielded without these capabilities.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	117.855	125.893	-	125.893	172.788	206.938	182.922	165.179

LI AA0723 - Comms, Nav Surveillance Army UNCLASSIFIED
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P-1 Line #30

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

**Prior Years** 

AA0723 - Comms. Nav Surveillance

**FY 2013 Base** 

FY 2013 OCO

FY 2013 Total

Modification Of Aircraft

Item Schedule

ID Code (A=Se	ervice Ready, B=Not Service Read	dy) :	F	Program Elements for C	ode B Items:		Other Relate	Other Related Program Elements:					
Second			FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017			
,	-				-	-	-	-	-	-			
Guard	Total Obligation Authority	-		- 7.298	-	7.29	3.704	7.181	7.715	8.641			
Army Reserve	Quantity	-			-	-	-	-	-	-			
	Total Obligation Authority						-	1.963	1.963	0.986			

FY 2012

									l											
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Communications, Navigation, and Surveillance - 0000	P3A		-	-	-	-	-	-	-	-	117.855	-	-	133.191	-	-	-	-	-	133.191
Total Gross/Weapon System Cost					-			-			117.855			133.191			-			133.191
				FY 2014	ļ		FY 2015			FY 2016			FY 2017	,	To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Communications, Navigation, and Surveillance - 0000	P3A		-	-	176.492	-	-	216.082	-	-	192.600	-	-	174.806	-	-	-	-	-	-
Total Gross/Weapon System Cost					176.492			216.082			192.600			174.806			-			-

\*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.

#### Justification:

FY 2013 Base procurement dollars in the amount of \$14.512 million supports systems engineering and other non-recurring engineering support for the AN/ASN-128D.

FY 2011

FY 2013 Base procurement dollars in the amount of \$5.001 million supports procurement of EGI+ 429 B-Kits for incorporation onto the OH-58F platform.

FY 2013 Base procurement dollars in the amount of \$66.928 million supports procurement of Alt Comms A-Kits and B-Kits for the AH-64D, CH-47F, UH/HH-60M, LUH, Unmanned Aircraft Systems (UAS) and Special Operations Aircraft (SOA). An Alt Comms suite of aviation radios comprises a standard configuration of non-developmental and commercial off-the-shelf (COTS) equipment. The standard configuration consists of two ARC-201D radios, an Improved Frequency Modulation (IFM) Power Amplifier (two IFM s for CH-47F), and a suite of ARC-231 radios and associated ancillary items.

FY 2013 base procurement dollars in the amount of \$46.750 million provides for integration of JTRS compliant radios onto the UH-60M and CH-47F platforms and supports the hardware and software integration and initial interface definition with on-board systems. These funds provides for Program Management Administration (PMA) and systems engineering requirements.

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

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LI AA0723 - Comms, Nav Surveillance Army

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D. LUH-72A, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

The GPS provides Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, Kiowa Warrior, and Special Operations fleets of helicopters. A Pre-Planned Product Improvement (P3I) to the DGNS and EGI began in FY01 to integrate a Selective Availability Anti-Spoofing Module (SAASM) and Instrument Flight Rule (IFR) navigation capability. The P3I DGNS (AN/ASN-128D) 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-58D) and Special Operations Aircraft (SOA), M-code is a new GPS security architecture and signal in space, mandated to support navigation warfare (NAVWAR) requirements in accordance with the Assistant Secretary of Defense (ASD) Memorandum Subject: Global Positioning System User Equipment Development and Procurement Policy, dated 7 August 2006. In order to minimize aircraft integration and testing requirements. introduction of M-Code capable GPS receivers is planned to coincide with the JPALS program. Small Antenna System (SAS) is a GPS anti-jamming antenna and electronics being analyzed for future integration to meet NAVWAR requirements.

The Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure Alternative Communications (Alt Comms) A&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 integration activities for production and fielded aircraft installs and qualifies hardware and software to enable the operation of JTRS compliant radios with Wideband Networking Waveform (WNW), Soldier Radio Waveform (SRW) and/or other advanced networking waveforms. This program also provides for the procurement and installation of radio retrofit kits for use on platforms that were fielded without these capabilities.

FY 2013 Base procurement dollars in the amount of \$14.512 million supports systems engineering, program management administration, and other non-recurring engineering support for the AN/ASN-128D.

FY 2013 Base procurement dollars in the amount of \$5.001 million supports procurement of EGI+ 429 B-Kits for incorporation onto the OH-58F platform.

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P-1 Line #30

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000
	e Modification: New or Improved Operational ability	Related RDT&E PEs:
FY 2013 Base procurement dollars in the amount of \$66.928 million support Special Operations Aircraft (SOA). An Alt Comms suite of aviation radios consists of two ARC-201D radios, an Improved Frequency Modulation (IFM FY 2013 base procurement dollars in the amount of \$46.750 million provide integration and initial interface definition with on-board systems. These fund	comprises a standard configuration of non-developmental and configuration of non-developmental and configuration.  I) Power Amplifier (two IFM s for CH-47F), and a suite of ARC-2 desertion of JTRS compliant radios onto the UH-60M and	mmercial off-the-shelf (COTS) equipment. The standard configuration 31 radios and associated ancillary items.  I CH-47F platforms and supports the hardware and software

LI AA0723 - Comms, Nav Surveillance Army

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0723 - Comms, Nav Surveillance

AA0723 - Comms, Nav Surveillance

(Modification Nomenclature (Modification Title, Modification Number):
Communications, Navigation, and
Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior			FY 201	3 Base	FY 2013 OCO		FY 2013 Total				
Financial Plan	Qty (Each)	Total Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost	Qty (Each)	Total Cost
Procurement												
DGNS (AN/ASN-128D) P3I <sup>(1)</sup>												
A Kits												
Recurring												
Engineering Change Orders	0	0.000	0	0.000	0	2.800	0	3.200	0	0.000	0	3.200
Data	0	0.000	0	0.000	0	0.500	0	1.212	0	0.000	0	1.212
Training Equipment	0	0.000	0	0.000	0	3.400	0	3.400	0	0.000	0	3.400
Systems Engineering	0	0.000	0	0.000	0	5.700	0	6.000	0	0.000	0	6.000
Other - PM Admin	0	0.000	0	0.000	0	0.800	0	0.700	0	0.000	0	0.700
Subtotal Recurring		0.000		0.000		13.200		14.512		0.000		14.512
B Kits							'			'		
NonRecurring												
B-Kit, Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		0.000
Total, DGNS (AN/ASN-128D) P3I	0	0.000	0	0.000	0	13.200	0	14.512	0	0.000	0	14.512
Embedded GPS Inertial Navigation System (EGI) P3I (2)												,
A Kits												
Recurring												
Engineering Change Orders	0	0.000	0	0.000	0	0.800	0	0.700	0	0.000	0	0.700
Data	0	0.000	0	0.000	0	0.101	0	0.101	0	0.000	0	0.101
Training Equipment	0	0.000	0	0.000	0	0.100	0	0.100	0	0.000	0	0.100
Systems Engineering	0	0.000	0	0.000	0	1.400	0	1.500	0	0.000	0	1.500
Other - PM Admin	0	0.000	0	0.000	0	1.000	0	1.000	0	0.000	0	1.000
Subtotal Recurring		0.000		0.000		3.401		3.401		0.000		3.401
B Kits						l l		J		L L		
Recurring												

LI AA0723 - Comms, Nav Surveillance Army

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Exhibit P-3A, Individual Modification: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:<br/>2031A / BA 2 / BSA 10P-1 Line Item Nomenclature:<br/>AA0723 - Comms, Nav SurveillanceModification Nomenclature<br/>(Modification Title, Modification Number):<br/>Communications, Navigation, and<br/>Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)										
Kit Quantity - B-Kit	0	0.000	0	0.000	5	0.400	15	1.600	0	0.000	15	1.600
Subtotal Recurring		0.000		0.000		0.400		1.600		0.000		1.600
NonRecurring												
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		0.000
Total, Embedded GPS Inertial Navigation System (EGI) P3I	0	0.000	0	0.000	5	3.801	15	5.001	0	0.000	15	5.001
Aviation Tactical Communication Systems (3)												
A Kits												
Recurring												
Kit Quantity-A-Kit	0	0.000	0	0.000	78	3.300	41	6.300	0	0.000	41	6.300
Systems Engineering	0	0.000	0	0.000	0	3.300	0	3.400	0	0.000	0	3.400
System Test & Evaluation	0	0.000	0	0.000	0	2.000	0	2.000	0	0.000	0	2.000
Fielding/Training	0	0.000	0	0.000	0	4.100	0	4.900	0	0.000	0	4.900
Other - PM Admin SEPM and IOB	0	0.000	0	0.000	0	3.500	0	3.600	0	0.000	0	3.600
Subtotal Recurring		0.000		0.000		16.200		20.200		0.000		20.200
NonRecurring												
ECPs - Nonrecurring	0	0.000	0	0.000	0	21.000	0	21.000	0	0.000	0	21.000
Subtotal NonRecurring		0.000		0.000		21.000		21.000		0.000		21.000
B Kits												
Recurring												
Kit Quantity-B-Kit (ARC-231)	0	0.000	0	0.000	383	34.700	190	17.000	0	0.000	190	17.000
Kit Quantity-B-Kit (ARC201D)	0	0.000	0	0.000	252	7.800	98	3.100	0	0.000	98	3.100
Kit Quantity-B-Kit (IFM)	0	0.000	0	0.000	252	4.800	98	1.900	0	0.000	98	1.900
Subtotal Recurring		0.000		0.000		47.300		22.000		0.000		22.000
Total, Aviation Tactical Communication Systems	0	0.000	0	0.000	965	84.500	427	63.200	0	0.000	427	63.200
Joint Tactical Radio Systems (JTRS) (4)												

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

2031A / BA 2 / BSA 10

AA0723 - Comms, Nav Surveillance

(Modification Title, Modification Number): Communications, Navigation, and

Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

**Type Modification:** New or Improved Operational

Related RDT&E PEs:

Capability

	Prior	Years	FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
A Kits												•
Recurring												
Kit Quantity - A-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Aircraft Integration	0	0.000	0	0.000	0	13.300	0	44.750	0	0.000	0	44.75
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
System Test and Evaluation	0	0.000	0	0.000	0	2.000	0	2.000	0	0.000	0	2.00
Subtotal Recurring		0.000		0.000		15.300		46.750		0.000		46.75
Total, Joint Tactical Radio Systems (JTRS)	0	0.000	0	0.000	0	15.300	0	46.750	0	0.000	0	46.75
Total, All Modifications		0.000		0.000		116.801		129.463		0.000		129.46
Procurement Cost (Procurement + Support)		0.000		0.000		116.801		129.463		0.000		129.46
Total Installation Cost		0.000		0.000		1.054		3.728		0.000		3.72
Total Cost (Procurement + Support + Installation)		0.000		0.000		117.855		133.191		0.000		133.19

	FY	2014	FY	2015	FY 2016		FY 2017		To Complete		Total	
Financial Plan	Qty (Each)	Total Cost (\$ M)										
Procurement												
DGNS (AN/ASN-128D) P3I <sup>(1)</sup>												_
A Kits												
Recurring												_
Engineering Change Orders	0	2.900	0	4.601	0	10.741	0	4.412	0	0.000	0	28.654
Data	0	1.250	0	1.243	0	1.200	0	1.200	0	0.000	0	6.605
Training Equipment	0	3.000	0	3.000	0	3.400	0	3.500	0	0.000	0	19.700
Systems Engineering	0	4.800	0	2.800	0	2.800	0	2.800	0	0.000	0	24.900
Other - PM Admin	0	0.800	0	0.800	0	0.800	0	1.000	0	0.000	0	4.900
Subtotal Recurring		12.750		12.444		18.941		12.912		0.000		84.759

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature

2031A / BA 2 / BSA 10

AA0723 - Comms, Nav Surveillance

(Modification Title, Modification Number): Communications, Navigation, and

Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

Type Modification: New or Improved Operational

Capability

Related RDT&E PEs:

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost						
B Kits												-
NonRecurring												
B-Kit, Nonrecurring	0	3.900	0	0.000	0	0.000	0	0.000	0	0.000	0	3.90
Subtotal NonRecurring		3.900		0.000		0.000		0.000		0.000		3.90
Total, DGNS (AN/ASN-128D) P3I	0	16.650	0	12.444	0	18.941	0	12.912	0	0.000	0	88.65
Embedded GPS Inertial Navigation System (EGI) P3I (2)												
A Kits												
Recurring												
Engineering Change Orders	0	1.000	0	0.300	0	0.200	0	0.200	0	0.000	0	3.20
Data	0	0.100	0	0.169	0	0.200	0	0.202	0	0.000	0	0.87
Training Equipment	0	0.213	0	0.200	0	0.200	0	0.200	0	0.000	0	1.01
Systems Engineering	0	1.600	0	1.600	0	1.600	0	1.600	0	0.000	0	9.300
Other - PM Admin	0	1.000	0	1.000	0	1.000	0	1.000	0	0.000	0	6.000
Subtotal Recurring		3.913		3.269		3.200		3.202		0.000		20.38
B Kits										,		
Recurring												
Kit Quantity - B-Kit	30	3.200	67	7.100	79	8.500	79	8.500	0	0.000	275	29.300
Subtotal Recurring		3.200		7.100		8.500		8.500		0.000		29.30
NonRecurring								,		,		,
B-Kit Nonrecurring	0	0.000	0	6.000	0	0.000	0	0.000	0	0.000	0	6.00
Subtotal NonRecurring		0.000		6.000		0.000		0.000		0.000		6.000
Total, Embedded GPS Inertial Navigation System (EGI) P3I	30	7.113	67	16.369	79	11.700	79	11.702	0	0.000	275	55.68
Aviation Tactical Communication Systems (3)												,
A Kits												
Recurring												_
Kit Quantity-A-Kit	46	12.400	24	6.600	24	6.700	0	0.000	0	0.000	213	35.300

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AA0723 - Comms, Nav Surveillance

(Modification Title, Modification Number): Communications, Navigation, and

Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D,

Type Modification: New or Improved Operational Capability

Related RDT&E PEs:

LUH-72A, UAS

	FY :	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	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	
Systems Engineering	0	3.500	0	3.500	0	3.700	0	3.700	0	0.000	0	21.10	
System Test & Evaluation	0	2.100	0	2.200	0	0.000	0	0.000	0	0.000	0	8.30	
Fielding/Training	0	5.500	0	2.600	0	3.700	0	3.700	0	0.000	0	24.50	
Other - PM Admin SEPM and IOB	0	3.900	0	2.900	0	2.600	0	5.300	0	0.000	0	21.80	
Subtotal Recurring		27.400		17.800		16.700		12.700		0.000		111.00	
NonRecurring								,		,		,	
ECPs - Nonrecurring	0	26.600	0	26.400	0	22.300	0	29.800	0	0.000	0	147.10	
Subtotal NonRecurring		26.600		26.400		22.300		29.800		0.000		147.10	
B Kits						1		,				,	
Recurring													
Kit Quantity-B-Kit (ARC-231)	284	27.700	133	13.500	123	12.800	202	19.600	0	0.000	1,315	125.30	
Kit Quantity-B-Kit (ARC201D)	188	6.000	106	3.500	112	3.700	167	5.500	0	0.000	923	29.60	
Kit Quantity-B-Kit (IFM)	188	3.700	106	2.200	112	2.300	167	3.500	0	0.000	923	18.40	
Subtotal Recurring		37.400		19.200		18.800		28.600		0.000		173.30	
Total, Aviation Tactical Communication Systems	706	91.400	369	63.400	371	57.800	536	71.100	0	0.000	3,374	431.40	
Joint Tactical Radio Systems (JTRS) (4)		,						,					
A Kits													
Recurring													
Kit Quantity - A-Kit	0	0.000	351	60.715	420	72.700	340	42.600	0	0.000	1,111	176.01	
Aircraft Integration	0	52.690	0	19.400	0	0.400	0	0.000	0	0.000	0	130.54	
Engineering Change Orders	0	0.000	0	5.100	0	0.000	0	0.000	0	0.000	0	5.10	
Training Equipment	0	0.000	0	14.600	0	2.000	0	2.000	0	0.000	0	18.60	
System Test and Evaluation	0	3.000	0	4.900	0	3.100	0	3.100	0	0.000	0	18.10	
Subtotal Recurring		55.690		104.715		78.200		47.700		0.000		348.35	
Total, Joint Tactical Radio Systems (JTRS)	0	55.690	351	104.715	420	78.200	340	47.700	0	0.000	1,111	348.35	
Total, All Modifications		170.853		196.928		166.641		143.414		0.000		924.10	

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A. UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	FY 2014		FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	Total	
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )
Procurement Cost (Procurement + Support)		170.853		196.928		166.641		143.414		0.000		924.100
Total Installation Cost		5.639		19.154		25.959		31.392		17.100		104.026
Total Cost (Procurement + Support + Installation)		176.492		216.082		192.600		174.806		17.100		1,028.126

#### Remarks:

FY 2013 Base procurement dollars in the amount of \$14.512 million supports systems engineering and other non-recurring engineering support for the AN/ASN-128D.

FY 2013 Base procurement dollars in the amount of \$5.001 million supports the procurement of EGI+ 429 B-Kits for incorporation onto the OH-58F platform.

FY 2013 base procurement dollars in the amount of \$66.928 million supports the procurement of Alt Comms A-Kits and B-Kits for the AH-64D, CH-47F, UH/HH-60M, LUH, Unmanned Aerial Systems (UAS) and Special Operations Aircraft (SOA).

FY 2013 base procurement dollars in the amount of \$46.750 million provides for integration of JTRS compliant radios with UH-60M and CH-47F to support hardware and software integration and initial interface definition with on-board systems. The effort also supports systems engineering requirements.

Manufacturer Location: Newark, NJ
Production Leadtime (in Months): 12

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<sup>(1)</sup> The Doppler GPS Navigation System (DGNS) is one of the aviation systems required for Digitization of the Battlefield. The ASN-128D is required to meet directed Selective Availability Anti-Spoofing Module (SAASM) security requirements and to provide a box-level Instrument Flight Rules (IFR) navigation capability.

<sup>(2)</sup> Embedded GPS/INS (Global Positioning System/Inertial Navigation Systems) (EGI) is one of the aviation systems required for Digitization of the Battlefield. Fielding of the GPS EGI Preplanned Product Improvement (P3I) continues. Since the EGI P3I configuration will be applied to UH/HH-60M, CH-47F, AH-64D Block III and OH-58F during RECAP, the aircraft platforms funded integration non-recurring and recurring costs and this budget line funded costs for the MH-60M and MH-47G costs. The next modification to the EGI will be to include M-Code security requirements into the currently fielded equipment. The aircraft platforms budget for procurement and A Kit integration which are installed on the production line.

<sup>(3)</sup> Aviation Tactical Communication Systems (ATCS) is comprised of Alternate Communications (Alt Comms) and the ARC-220 HF radio. Alt Comms procures A-Kits and B-Kits to meet minimum acceptable near-term communication requirements. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. B-Kits are procured prior to A-Kits due to platform and radio lead times. A-Kit configuration and radio suite varies by platform. B-Kit unit costs vary based on platform configuration. The installation schedule reflects only those A-Kits being installed on the CH-47F platform under their Production Improvement Program (PIP).

<sup>(4)</sup> The JTRS integration program installs and qualifies JTRS compliant radios with WNW and SRW and/or other advanced networking waveform capabilities onto production and fielded aircraft. This funding will procure and install retrofit installation kits as well as provide the funding for installation of these kits. Retrofit installations will occur on all aircraft that were not installed with JTRS on the production line.

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Exhibit P-3A, Indiv	idual Modification: P	B 2013 Army				Date: February 2012			
Appropriation / Bu 2031A / BA 2 / BSA	dget Activity / Budge 10	et Sub Activity		menclature: s, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Numbe Communications, Navigation, and Surveillance - 0000				
	s Affected: UH/HH-60 CH/MH-47F, OH-58D/		Type Modification: New Capability	or Improved Operational	Related R	DT&E PEs:			
Manufacturer Informati	on: DGNS (AN/ASN-128D)	P3I			1				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates									
Delivery Dates									
Manufacturer Informati	on: Embedded GPS Inertia	al Navigation Sys	tem (EGI) P3I	<u> </u>		·			
Manufacturer Name: Hor	neywell, Incorporated			Manufacturer Location: Clea	arwater, FL				
Administrative Leadtime	(in Months): 9			Production Leadtime (in Mo	onths): 7				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates		Jul 2012	Jul 2013	Jul 2014	Jul 2015	Jul 2016	Jul 2017		
Delivery Dates		Jan 2013	Jan 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018		
Manufacturer Informati	on: Aviation Tactical Com	munication Syste	ems						
Manufacturer Name: Var	rious			Manufacturer Location: Vari	ious				
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	onths): 10				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates		Dec 201	1 Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016		
Delivery Dates		Sep 2012	Sep 2013	Sep 2014	Sep 2015	Sep 2016	Sep 2017		
Manufacturer Informati	on: Joint Tactical Radio S	ystems (JTRS)							
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: Mar	nassas, VA				
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	onths): 10				
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017		
Contract Dates					Dec 2014	Dec 2015	Dec 2016		
Delivery Dates					Sep 2015	Sep 2016	Sep 2017		

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

| Method of Implementation: Modification Work Order (MWO) Depot Level Installations | Installation Name: | Installation Name: | Prior Years | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total Cost | Qty | | Qt

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 Total		
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	
All Prior Years	0	0.000	0	0.000	46	0.295	0	0.000	0	0.000	0	0.000	
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
To Complete	-	-	-	-	-	-	-	-	-	-	-	-	
Total	0	0.000	0	0.000	46	0.295	0	0.000	0	0.000	0	0.000	

	FY	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	Total		
Installation Cost	Qty (Each)	Total Cost (\$ M)											
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	46	0.295	
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
To Complete	-	-	-	-	-	-	-	-	-	-	-	-	
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	46	0.295	

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P-1 Line #30

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	: P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000
,	<b>Type Modification:</b> New or Improved Operational Capability	Related RDT&E PEs:

Method of Implementation: Modification Work Order (MWO) Depot Installation: DGNS (AN/ASN-128D) P3I Level Installations Installation Name:

Installation	Schedule
--------------	----------

		FY 2011 FY 2012									FY 2	013		-	FY 2	2014			FY 2	2015			FY 2	016			FY 2	2017				
	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	тс	Tot
In	-		0	0	0	0	12	12	12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Out	-		0	0	0	0	0	12	12	12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46

Installation: Embedded GPS Inertial Navigation System (EGI)	P3I Me	thod of Impl	ementation:	Aircraft Plat	form Funded	Installation	Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2014		FY 2015		FY 2016		FY 2017		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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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															UNC	CLAS	SSIF	IED												
Exh	ibit	P-3/	A, Ir	ndivi	dual	Modi	ficatio	n: P	B 201	3 Arr	ny													Date:	Febr	uary 20	12			
				Bud SSA		Activ	ity / B	udge	t Sub	Acti	vity:		1			<b>Nome</b> i ns, Na		t <b>ure:</b> urveilla	ance	)				( <i>Modi</i> Comn	<i>ficatio</i> nunica	,	<i>M</i> o Nav	clature dification igation, ai		ber):
МН-	601		i-47				UH/H , OH-					ype I apab	<b>Modifi</b> oility	catio	n: Ne	ew or	Impro	oved C	Ope	rationa	ıl	Relat	ed RDT	&E PE	s:					
Insta	llati	on: Er	nbec	lded G	SPS Inc	ertial N	lavigati	on Sys	tem (E	GI) P3	ı M	lethod	l of Impl	emen	tation	: Aircra	ft Plat	form Fu	nded	d Installa	ition	Install	ation Nam	ə:						
											FY	2014	i		FY 2	2015			FY 2	2016		FY	2017		To Co	omplete		To	otal	
Insta	llati	on Co	st								Qty (Each)		tal Cost (\$ M )	(E	Qty ach)	Total (		Qty (Eacl		Total C		Qty (Each)	Total Cos		Qty Each)	Total C		Qty (Each)		Cost
FY 20	014											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000
FY 20	015											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000
FY 20	016											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000
FY 20	017											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000
To C	Complete										-		-		-		-		-		-	-			-		-	-		-
Total												0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0		0.000
Insta	llati	on Sc	hedu	ıle																										
				FY 2		,			2012				2013			FY 2					2015		FY 2				Y 20			
	AF	PΥ	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		1 2	3	4	1 2	-	3 4	TC	Tot
In	┝-		0	0	0	-		0		0				0	0	0	0			0 0		-	0 0	0	0	0	0	0 0		0
Out			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	0	0
Insta	llati	on: Av	riatio	n Tact	tical Co	ommui	nication	Syste	ms				l of Impl		tation	: Modifi	ication	Work C	Orde	r (MWO)	Depo		ation Nam	9:						
												r Yea				2011				2012			13 Base			13 OCO		FY 20 <sup>2</sup>		
Insta	nstallation Cost										<b>Qty</b> (Each)		tal Cost (\$ M )		<b>Qty</b> ach)	Total (\$ A		<b>Qty</b> (Eacl		Total C		<b>Qty</b> (Each)	Total Cos (\$ M)		<b>Qty</b> Each)	Total C		<b>Qty</b> (Each)		Cost
All Pr	All Prior Years										0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000	
FY 20	Y 2011										0	0.000		0		0.000		19		0.759	15	0.6	28	(	0	0.000	15	i	0.628	
FY 2	FY 2012										0	0.000		0		0.000		0		0.000	78	3.1	00	(	0	0.000	78		3.100	
FY 20	013											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000
FY 2												0	0.000		0		0.000		0		0.000	(					0.000	0		0.000
FY 20												0	0.000		0		0.000		0		0.000		1				0.000	0		0.000
FY 20												0	0.000		0		0.000		0		0.000	(	1				0.000	0		0.000
FY 20	017											0	0.000		0		0.000		0		0.000	(	0.0	00	(	0	0.000	0	)	0.000

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P-1 Line #30

														UNC																	
Exhi	bit P-	-3A, I	ndivi	dual N	/lodi	ficatio	n: P	B 201	3 Arı	ny														ate:	: Feb	ruary	2012				
	ropria A / B/			dget A	ctiv	ity / B	udge	et Sub	Act	ivity:			-		-	<b>enclat</b> av Su	-	ance	_				(	Mod Comr	<i>ificati</i> nunio	ion Ti	<i>tle, Mo</i> s, Nav	<b>clature</b> <i>dificati</i> rigation	on N		):
MH-		CH-4		Affec CH/MH							<b>ype l</b> Sapab		icatio	n: Ne	ew or	Impro	oved (	Opera	ational		Rela	ited F	RDT&	E PE	Es:						
Instal	lation:	Aviatio	on Tac	tical Co	mmu	nication	Syste	ms			lethod evel In			tation	: Modif	fication	Work (	Order (	(MWO)	Depot	Insta	llation	Name								
										Pric	r Year	s		FY 2	2011			FY 20	012		FY 2	013 Ba	ase		FY 2	013 O	co	FY	2013	3 Tota	al
Instal	lation (	Cost								Qty (Each)		al Cost		<b>lty</b> ach)		Cost	Qty (Eac		Total Co		<b>Qty</b> (Each)		tal Cost (\$ M)		<b>Qty</b> (Each)		tal Cost (\$ M )	Qty (Each			Cost
To Co	mplete	÷									0	0.00		0		0.000		0	C	0.000		0	0.000	)		0	0.000		0		0.00
Total											0	0.00	)	0		0.000		19	O	).759	!	93	3.728	3		0	0.000		93		3.72
										F	/ 2014			FY 2	2015			FY 20	016		F	<b>/</b> 2017	,		То С	omple	te		Tot	tal	
Instal	lation (	Cost								Qty (Each)		al Cost		Qty ach)		Cost	Qty (Eac		Total Co		Qty (Each)		tal Cost		<b>Qty</b> (Each)		tal Cost	Qty (Each			Cost
All Pri	or Year	rs									0	0.00		0		0.000		0	C	0.000		0	0.000	)		0	0.000		0		0.00
FY 20	11										0	0.00	)	0		0.000		0	0	0.000		0	0.000	ס		0	0.000		34		1.38
FY 20	12										0	0.00	)	0		0.000		0	C	0.000		0	0.000	)		0	0.000		78		3.10
FY 20	13										11	5.63	9	0		0.000		0	C	0.000		0	0.000	ו		0	0.000		41		5.63
FY 20	14										0	0.00	)	46		19.154		0	C	0.000		0	0.000	ו		0	0.000		46		19.15
FY 20	15										0	0.00	)	0		0.000		24		3.941		0	0.000	ו		0	0.000		24		8.94
FY 20											0	0.00		0		0.000		0		0.000	:	24	9.600			0	0.000		24		9.60
FY 20											0	0.00		0		0.000		0		0.000		0	0.000			0	0.000		0		0.00
Total	mplete	;									0 41	5.63		46		0.000		24		3.941		0 24	9.600			0	0.000		247		0.00 47.82
	lation	Schod	מוני								* '	3.03	<u>'  </u>	40		19.134		24		5.541	•	24	9.000	<u> </u>			0.000		241		47.02
sta		Coned		2011			FY	2012			FY:	2013			FY 2	2014			FY 2	015			FY 20	16			FY 20	 )17			
	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	-	0	0	0	0	0	0	0	19	35	20	20	18	11	10	10	10	12	12	12	10	6	6	6	6	6	6	6	6	0	24
		0				-						20		18						12	12	10	6	6	6	6		6	6	6	24

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Modification Nomenclature
2031A / BA 2 / BSA 10	AA0723 - Comms, Nav Surveillance	(Modification Title, Modification Number):
		Communications, Navigation, and
		Surveillance - 0000

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

Type Modification: New or Improved Operational

Capability

Related RDT&E PEs:

Method of Implementation: Modification Work Order (MWO) Depot Installation: Joint Tactical Radio Systems (JTRS) Level Installations Installation Name: FY 2013 Total **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** Qty **Total Cost** Qty (Each) **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Installation Cost** (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 All Prior Years 0.000 0 0.000 0 0 FY 2011 0 0.000 0 0.000 0.000 0.000 0 0 0.000 0.000 0.000 0 0.000 0 FY 2012 0.000 0 0.000 FY 2013 0 0.000 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 2014 0 0 0.000 0 0 0.000 0 0.000 0 FY 2015 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0 0.000 0 0 0.000 0.000 FY 2016 0 FY 2017 0.000 0.000 0.000 0.000 0 0.000 To Complete Total 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000

	FY:	2014	FY 2	015	FY 2	2016	FY 2	2017	To Co	nplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	351	17.018	0	0.000	0	0.000	351	17.018
FY 2016	0	0.000	0	0.000	0	0.000	420	21.792	0	0.000	420	21.792
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	340	17.100	340	17.100
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	351	17.018	420	21.792	340	17.100	1,111	55.910

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Exhibit P-3A, Individual Modification: PB 2013 Army			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance		Modification Nomenclature (Modification Title, Modification Number): Communications, Navigation, and Surveillance - 0000
Models of Systems Affected: UH/HH-60A/L, UH/HH/	Modification: New or Improved Operational	Related RDT	&E PEs:

MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS

Capability

Installation: Joint Tactical Radio Systems (JTRS)

Method of Implementation: Modification Work Order (MWO) Depot Level Installations

Installation Name:

Installation Schedule

mota	iation	Ochica	uic																												
			FY 2	2011	_		FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015		-	FY 2	016		_	FY 2	017			
	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	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	100	100	100	120	100	100	100	340	1,111
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	100	100	100	120	100	100	440	1,111

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

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

AA0711 - GATM Rollup

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	m Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents:		
	Prior			FY 2013							То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	489.069	97.591	105.519	87.280	-	87.280	70.113	57.810	65.047	65.793	0.000	1,038.222
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	489.069	97.591	105.519	87.280	-	87.280	70.113	57.810	65.047	65.793	0.000	1,038.222
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	489.069	97.591	105.519	87.280	-	87.280	70.113	57.810	65.047	65.793	0.000	1,038.222

(The follo	wing Resource	Summary rows	are for informa	ational purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

This budget line supports procurement of Global Air Traffic Management equipment for both Fixed Wing (FW) and Rotary Wing (RW) aircraft.

COMPO Break see pg 3.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.451	98.308	81.176	-	81.176	65.158	50.700	53.535	53.117
,	Quantity	-	-	-	-	-	-	-	-	-
Guard	Total Obligation Authority	3.955	4.327	3.391	-	3.391	2.186	2.182	3.807	3.676
Army Reserve	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.185	2.884	2.713	-	2.713	2.769	4.928	7.705	9.000

Item Sche	dule		Р	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	<b>2013 T</b> o	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost									
GATM - Fixed Wing Aircraft - 0000	P3A		-	-	149.701	-	-	11.271	-	-	14.396	-	-	17.179	-	-	-	-	-	17.179
GATM Rotary Wing Aircraft - 0000	P3A		-	-	339.368	-	-	86.320	-	-	91.123	-	-	70.101	-	-	-	-	-	70.101

LI AA0711 - GATM Rollup Army UNCLASSIFIED
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P-1 Line #31

								UNG							1-					
Exhibit P-40, Bud															Date	: Febr	uary 201	2		
<b>Appropriation / E</b> 2031A : Aircraft P Modification Of Ai	rocurement,						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	le B Item	s:			Oth	er Related	d Progran	n Eleme	nts:			
Item Sche	,		F	rior Yea	rs		FY 2011			FY 2012	2	FY	2013 B	ase	FY	2013 O	СО	F	/ 2013 To	otal
Item Nomenclature*	Exhibits	ID CD		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
Total Gross/Weapon System Cost			(\$11)	(2001)	489.069	(\$7.7)	(200.1)	97.591	(\$11)	(2001)	105.519	(011)	(2001)	87.280	(\$7.7)	(2001)	-	(\$11)	(200.1)	87.28
	\ <u></u>			FY 2014			FY 2015	,		FY 2010	5		FY 2017	,	To	Compl	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 Cos
GATM - Fixed Wing Aircraft - 0000	P3A		-	-	14.572		-	12.569	-	-	19.063	-	-	19.065	-	-	0.000	-	-	257.81
GATM Rotary Wing Aircraft - 0000	P3A		-	-	55.541	-	-	45.241	-	-	45.984	-	-	46.728	-	-	0.000	-	-	780.40
Total Gross/Weapon System Cost					70.113			57.810			65.047			65.793			0.000			1,038.22

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0711 - GATM Rollup	Modification Nomenclature (Modification Title, Modification Number):
200 IA / BA 2 / BOA 10	And The Garlier Rollap	GATM - Fixed Wing Aircraft - 0000
Madela of Customa Affacted, All sories of Army fixed	Type Medification, Detionalization, Standarization	Polotod PDT9E DEc.

Models of Systems Affected: All series of Army fixed wing aircraft

Type Modification: Rationalization, Standarization, Interoperability, Compatibility, Simplification

•			• •	•	•							
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	EV 2017	To Complete	Total
Resource Summary	Icais	1 1 2011	1 1 2012	Dase	000	IOtai	1 1 2017	1 1 2013	1 1 2010	1 1 2017	Complete	IOtai
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	149.701	11.271	14.396	17.179	-	17.179	14.572	12.569	19.063	19.065	0.000	257.816
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	149.701	11.271	14.396	17.179	-	17.179	14.572	12.569	19.063	19.065	0.000	257.816
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	149.701	11.271	14.396	17.179	-	17.179	14.572	12.569	19.063	19.065	0.000	257.816
(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			

(The follo	wing Resource	Summary rows	are for informa	tional purposes	s only. The corre	esponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **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 (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.

FY13 Base procurement dollars in the amount of \$17.179 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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 P-1 Line #31

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:
AA0711 - GATM Rollup

Modification Nomenclature
(Modification Title, Modification Number):
GATM - Fixed Wing Aircraft - 0000

Models of Systems Affected: All series of Army fixed Type Modification: Rationalization, Standarization, Related RDT&E PEs:

wing aircraft Interoperability, Compatibility, Simplification

•		, ,	<i>3</i> ′									
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	з осо	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
Procurement												
Global Air Traffic Management - FW <sup>(1)</sup>												
A Kits												
Recurring												
Installation Kits	178	104.691	7	7.789	10	9.977	17	11.925	0	0.000	17	11.92
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.100
Subtotal Recurring		104.791		7.889		10.077		12.025		0.000		12.02
Total, Global Air Traffic Management - FW	178	104.791	7	7.889	10	10.077	17	12.025	0	0.000	17	12.02
Total, All Modifications		104.791		7.889		10.077		12.025		0.000		12.025
Procurement Cost (Procurement + Support)		104.791		7.889		10.077		12.025		0.000		12.02
Total Installation Cost		44.910		3.382		4.319		5.154		0.000		5.154
Total Cost (Procurement + Support + Installation)		149.701		11.271		14.396		17.179		0.000		17.179

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Procurement		,										,
Global Air Traffic Management - FW <sup>(1)</sup>												
A Kits												_
Recurring												
Installation Kits	13	10.100	15	8.698	5	13.244	5	13.246	0	0.000	250	179.670
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.800
Subtotal Recurring		10.200		8.798		13.344		13.346		0.000		180.470
Total, Global Air Traffic Management - FW	13	10.200	15	8.798	5	13.344	5	13.346	0	0.000	250	180.470
Total, All Modifications		10.200		8.798		13.344		13.346		0.000		180.470
Procurement Cost (Procurement + Support)		10.200		8.798		13.344		13.346		0.000		180.470
Total Installation Cost		4.372		3.771		5.719		5.719		0.000		77.346
Total Cost (Procurement + Support + Installation)		14.572		12.569		19.063		19.065		0.000		257.816

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Exhibit P-3A, Individual Modification: PB 2013 Army		Dat	te: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0711 - GATM Rollup	(Mo	odification Nomenclature odification Title, Modification Number): ATM - Fixed Wing Aircraft - 0000
Models of Systems Affected: All series of Army fixed Type	Modification: Rationalization, Standarization,	Related RDT&E	PEs:

wing aircraft

Interoperability, Compatibility, Simplification

#### Remarks:

(1) This effort will update and modernize communication, navigation, and surveillance equipment to current international requirements, allow worldwide deployments and continued safe operations. Failure to modify the Fixed Wing fleet will prevent worldwide deployability. As currently equipped, the aircraft are not suitable for worldwide deployment nor capable of using modern navigation and air traffic control capabilities. A variety of equipment is required by GATM including: datalink technology, satellite communication (SATCOM), Electronic Flight Information System, surveillance equipment, displays, radios, navigation equipment and multi-mode receivers. GATM requirements are evolving and require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Kit configuration varies by aircraft. Consequently, kit unit and installation costs vary significantly from year to year.

Manufacturer Information	on: Global Air Traffic Mana	ngement - FW					
Manufacturer Name: Mul	tiple Commercial Lenders			Manufacturer Location: T	BD		
Administrative Leadtime	(in Months): 2			Production Leadtime (in	Months): 6		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Dec 2010	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates	May 2011	May 2012	May 2013	May 2014	May 2015	May 2016	May 2017

Installation: Global Air Traffic Management - FW	Me	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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	178	44.910	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	7	3.382	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	10	4.319	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	17	5.154	0	0.000	17	5.154
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	178	44.910	7	3.382	10	4.319	17	5.154	0	0.000	17	5.154

	FY 2	FY 2014		2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	178	44.910

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Date: February 2012 Exhibit P-3A, Individual Modification: PB 2013 Army **Modification Nomenclature** 

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

2031A / BA 2 / BSA 10 AA0711 - GATM Rollup (Modification Title, Modification Number): GATM - Fixed Wing Aircraft - 0000

Related RDT&E PEs: Type Modification: Rationalization, Standarization, Models of Systems Affected: All series of Army fixed

wing aircraft Interoperability, Compatibility, Simplification

Installation: Global Air Traffic Management - FW	Met	thod of Impl	ementation:	Contractor			Installa	tion Name:				
	FY 2	2014	FY 2	:015	FY 2	016	FY 2	2017	To Co	mplete	Tot	tal
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)
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	3.382
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	4.319
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	5.154
FY 2014	13	4.372	0	0.000	0	0.000	0	0.000	0	0.000	13	4.372
FY 2015	0	0.000	15	3.771	0	0.000	0	0.000	0	0.000	15	3.771
FY 2016	0	0.000	0	0.000	5	5.719	0	0.000	0	0.000	5	5.719
FY 2017	0	0.000	0	0.000	0	0.000	5	5.719	0	0.000	5	5.719
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	13	4.372	15	3.771	5	5.719	5	5.719	0	0.000	250	77.346

#### Installation Schedule

1	Juni	40011	Jonean	410																												
				FY 2	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	2017			
		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		178	0	0	0	7	0	0	5	5	2	2	9	4	2	2	5	4	2	3	4	6	0	0	5	0	0	0	5	0	0	250
O	ut	174	4	0	0	0	1	6	0	5	5	2	2	9	4	2	2	5	4	2	3	4	6	0	0	5	0	0	0	5	0	250

LI AA0711 - GATM Rollup Army

Exhibit P-3A, Individual Modification: PB 2013 Arm	У			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activ 2031A / BA 2 / BSA 10	rity:	P-1 Line Item Nomenclature: AA0711 - GATM Rollup		Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000
Models of Systems Affected: UH&HH60A&L,	<b>Type</b> Canal	Modification: New or Improved Operational	Related RDT	&E PEs:

CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	339.368	86.320	91.123	70.101	-	70.101	55.541	45.241	45.984	46.728	0.000	780.40
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	339.368	86.320	91.123	70.101	-	70.101	55.541	45.241	45.984	46.728	0.000	780.40
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	339.368	86.320	91.123	70.101	-	70.101	55.541	45.241	45.984	46.728	0.000	780.40

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **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 (CNS/ATM) programs. GATM is a 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, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing and Unmanned Aircraft System (UAS) fleets. Included in the GATM Program is the European mandated Mode S requirement which is being met with the fielding of the APX-118, an upgrade to the Identification Friend or Foe (IFF) to add Mode 5 capability which will be achieved thru the fielding of the APX-123, worldwide mandated automatic dependant surveillance broadcast (ADS-B) 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 is an upgrade of the Mode S self-reporting format.

GATM provides Army aircraft improved capabilities to allow them to continue to operate in civil controlled airspace without threat of exclusion. IFF Mode 5 provides enhanced security and greatly improved performance over Mode 4. It also improves compatibility with civil ATC by providing less interference. The Full Operational Capability (FOC) 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 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 will also impact access in worldwide airspace. The recurring procurement of Mode S kits started in FY02 and procurement and installations continue. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements.

FY 2013 Base procurement dollars in the amount of \$11.212 million supports procurement of APX-123 B-Kits and procurement and installation of APX-123 A-Kits for the AH-64A&D, CH-47D/F, UH-60A/L/M, OH-58D&F, MH-60L/K/M, MH-47D/E/G/F, A/MH-6 and Unmanned Aircraft Systems (UAS) to provide these aircraft with enhanced IFF Mode 5 capabilities.

FY 2013 Base procurement dollars in the amount of \$10.035 million supports procurement and installation of Mode 5 upgrade kits which convert previously fielded APX-118 transponders to APX-123 transponders.

LI AA0711 - GATM Rollup

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P-1 Line #31

Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activit 2031A / BA 2 / BSA 10	y:	P-1 Line Item Nomenclature: AA0711 - GATM Rollup		Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000
Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	Capat	•	Related RD	
FY 2013 Base procurement dollars in the amount of \$32.455 million support of ADS-B for mandated Air Traffic Control (ATC) services for	supports or the app	the associated Non Recurring Engineering (NRE) integratio licable aviation platforms.	n which will facilitat	e an enhanced Global Positioning System (GPS) in
FY 2013 Base procurement dollars in the amount of \$10.599 million	supports	procurement of ARC-231 B-Kits and procurement and insta	lation of ARC-231	A and B Kits on the HH/UH-60 A/L platform.
FY 2013 Base procurement dollars in the amount of \$5.800 million	supports p	procurement and installation of ARC-231 maintenance transi	tion doors on the U	H-60 A/L platform.
All COMPO 1 Active				

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Exhibit P-3A, Individual Modification: PB 2013 Army

P-1 Line Item Nomenclature: Modification Nomenclature

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

(Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

Date: February 2012

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 2011 FY 2012 FY 2013 OCO **Prior Years FY 2013 Base** FY 2013 Total **Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty **Total Cost Total Cost Financial Plan** (Each) (Each) (Each) (\$ M) (Fach) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (\$ M) **Procurement** Global Air Traffic Mgmt RW APX-118 (2) A Kits Recurring 2,048 9.200 0 0.000 Kit Qty- APX-118 A-Kits 0 Aircraft Integration 0 5.300 0 0.600 0 0.000 0.000 0 0.000 0 0.000 **Engineering Change Orders** 7.100 0 0.100 0 0.000 0.000 0.000 0.000 0 4.000 0 0.800 0 0.000 0 0.000 0 0.000 0 0.000 Data Training Equipment 0 0 0.000 0 0 0 1.900 1.500 0 0.000 0.000 0.000 Fielding 4.500 0.800 0 0.000 0.000 0.000 0 0.000 Systems Engr/Prog Mgt(SEPM) 0 13.000 0.500 0 0.000 0 0.000 0 0.000 0 0.000 System Test & Eval (ST&E) 0 2.700 0.800 0 0.000 0.000 0 0.000 0.000 0 0 0.000 0 0 0.000 0 Other- PM Admin 13.800 0.700 0 0.000 0.000 Other 5.600 0.000 0 0.000 0 0.000 0.000 0 0.000 Subtotal Recurring 67.100 5.800 0.000 0.000 0.000 0.000 B Kits Recurring 2,635 113.812 0.000 0 0.000 0.000 0 0.000 0 Kit Qty- APX-118 B-Kits 0 0.000 Subtotal Recurring 113.812 0.000 0.000 0.000 0.000 0.000 NonRecurring 6.600 0.000 0.000 0.000 0.000 0.000 **B-Kit Nonrecurring** 6.600 0.000 0.000 0.000 0.000 0.000 Subtotal NonRecurring 0 4.683 187.512 0 5.800 0 0.000 0 0.000 0 0.000 Total, Global Air Traffic Mgmt RW APX-118 0.000 Global Air Traffic Mgmt RW APX-123 (3) A Kits Recurring

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M,

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**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

|CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/N |AH6,MH6, AH64A&D, OH58D&F, UAS

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
Kit Quantity - APX-123 A-Kits	32	0.100	0	0.000	0	0.000	225	1.100	0	0.000	225	1.100
AirCrft Integ/RCUs/KIV77	0	6.200	0	6.900	0	0.000	0	0.000	0	0.000	0	0.000
ECP	0	3.100	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000
Systems Eng/Prog Mgt (SEPM)	0	4.900	0	4.500	0	0.400	0	1.000	0	0.000	0	1.000
Other PM Admin	0	2.900	0	1.000	0	0.200	0	0.100	0	0.000	0	0.100
Subtotal Recurring		17.200		14.400		0.600		2.200		0.000		2.200
B Kits												ı
Recurring												
Kit Quantity - APX-123 B-Kits	478	7.000	170	6.900	217	7.300	231	8.212	0	0.000	231	8.212
Subtotal Recurring		7.000		6.900		7.300		8.212		0.000		8.21
NonRecurring		'								'		
B-Kits, Nonrecurring	0	19.400	0	1.200	0	0.400	0	0.800	0	0.000	0	0.800
Subtotal NonRecurring		19.400		1.200		0.400		0.800		0.000		0.800
Total, Global Air Traffic Mgmt RW APX-123	510	43.600	170	22.500	217	8.300	456	11.212	0	0.000	456	11.212
Global Air Traffic Mgmt RW APX-118 Upgrade Kits <sup>(4)</sup>												
A Kits												
Recurring												
Kit Qty- Upgrade A-Kits	32	0.100	240	1.211	250	1.323	250	1.335	0	0.000	250	1.33
Engineering Change Orders	0	0.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
System Eng/Prog Mgt (SEPM)	0	3.200	0	2.400	0	0.700	0	0.800	0	0.000	0	0.800
Subtotal Recurring		3.400		3.611		2.023		2.135		0.000		2.13
B Kits						1						
Recurring												
Kit Qty- Upgrade B-Kits	1,060	9.300	560	6.700	522	6.300	489	5.900	0	0.000	489	5.900
Subtotal Recurring		9.300		6.700		6.300		5.900		0.000		5.900
NonRecurring												,
B-Kits Nonrecurring	0	0.900	0	0.300	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #31

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

**Modification Nomenclature** 

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

(Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

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 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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)	<b>Qty</b> (Each)	Total Cost
Subtotal NonRecurring		0.900		0.300		0.000		0.000		0.000		0.00
Total, Global Air Traffic Mgmt RW APX-118 Upgrade Kits	1,092	13.600	800	10.611	772	8.323	739	8.035	0	0.000	739	8.03
Global Air Traffic Mgmt RW ADS B Out <sup>(5)</sup>												
A Kits												
Recurring												
Kit Qty: ADS-B Out A-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Engineering Change Orders	0	0.000	0	0.000	0	1.100	0	2.054	0	0.000	0	2.05
Data	0	0.000	0	0.000	0	0.800	0	0.800	0	0.000	0	0.80
Training Equipment	0	0.000	0	0.000	0	2.100	0	2.200	0	0.000	0	2.2
Fielding	0	0.000	0	0.000	0	0.400	0	0.400	0	0.000	0	0.4
System Eng/Prog Mgt (SEPM)	0	0.000	0	0.000	0	2.200	0	2.200	0	0.000	0	2.2
System Test & Eval (ST&E)	0	0.000	0	0.000	0	0.200	0	0.200	0	0.000	0	0.2
Other- PM Admin	0	0.000	0	0.000	0	2.300	0	2.300	0	0.000	0	2.30
Subtotal Recurring		0.000		0.000		9.100		10.154		0.000		10.1
NonRecurring												,
Non-Recurring Engineering	0	0.000	0	0.000	0	24.700	0	22.301	0	0.000	0	22.30
Subtotal NonRecurring		0.000		0.000		24.700		22.301		0.000		22.30
B Kits												,
Recurring												
Kit Qty: ADS-B Out B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Global Air Traffic Mgmt RW ADS B Out	0	0.000	0	0.000	0	33.800	0	32.455	0	0.000	0	32.45
Global Air Traffic Mgmt RW ARC-231 (6)												,
A Kits												
Recurring												
Kit Qty- ARC-231 A-Kit	120	6.700	299	12.800	52	2.600	47	2.500	0	0.000	47	2.50

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature** (Modification Title, Modification Number):

2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

GATM Rotary Wing Aircraft - 0000

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Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, Type Modification: New or Improved Operational Capability

Related RDT&E PEs:

AH6,MH6, AH64A&D, OH58D&F, UAS

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 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)
Testing	0	0.000	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		6.700		13.600		2.600		2.500		0.000		2.500
NonRecurring				'						,		,
NRE (A-Kit)	0	7.800	0	6.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal NonRecurring		7.800		6.000		0.000		0.000		0.000		0.000
B Kits						,						,
Recurring												
Kit Qty- ARC-231 B-Kit	419	54.000	0	0.000	52	6.300	47	5.700	0	0.000	47	5.700
Subtotal Recurring		54.000		0.000		6.300		5.700		0.000		5.700
Total, Global Air Traffic Mgmt RW ARC-231	539	68.500	299	19.600	104	8.900	94	8.200	0	0.000	94	8.200
Global Air Traffic Mgmt RW Transition Doors (7)												,
A Kits												
NonRecurring												
Equipment, Nonrecurring	0	5.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal NonRecurring		5.000		0.000		0.000		0.000		0.000		0.000
B Kits												
Recurring												
Transition Doors, Procurement	220	11.700	199	8.200	52	2.500	47	2.600	0	0.000	47	2.600
Subtotal Recurring		11.700		8.200		2.500		2.600		0.000		2.600
Total, Global Air Traffic Mgmt RW Transition Doors	220	16.700	199	8.200	52	2.500	47	2.600	0	0.000	47	2.600
Total, All Modifications		329.912		66.711		61.823		62.502		0.000		62.502
Procurement Cost (Procurement + Support)		329.912		66.711		61.823		62.502		0.000		62.502
Total Installation Cost		9.456		19.609		29.300		7.599		0.000		7.599
Total Cost (Procurement + Support + Installation)		339.368		86.320		91.123		70.101		0.000		70.101

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Modification Nomenclature

Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

(Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

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 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost						
Procurement												
Global Air Traffic Mgmt RW APX-118 (2)												
A Kits												
Recurring												
Kit Qty- APX-118 A-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,048	9.20
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.90
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.20
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.80
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.40
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.30
Systems Engr/Prog Mgt(SEPM)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.50
System Test & Eval (ST&E)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.50
Other- PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	14.50
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.60
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		72.90
B Kits												
Recurring												
Kit Qty- APX-118 B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,635	113.8
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		113.8
NonRecurring											,	
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.60
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		6.60
Total, Global Air Traffic Mgmt RW APX-118	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4,683	193.31
Global Air Traffic Mgmt RW APX-123 (3)		'						1		· · · · · · · · · · · · · · · · · · ·		
A Kits												
Recurring												

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

**Modification Nomenclature** 

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 2 / BSA 10

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

(Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

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 2	2014	FY 2	2015	FY :	2016	FY 2	2017	То Со	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Kit Quantity - APX-123 A-Kits	125	0.600	110	0.600	0	0.000	0	0.000	0	0.000	492	2.400
AirCrft Integ/RCUs/KIV77	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.100
ECP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.100
Systems Eng/Prog Mgt (SEPM)	0	0.700	0	0.600	0	0.000	0	0.000	0	0.000	0	12.100
Other PM Admin	0	0.100	0	0.200	0	0.000	0	0.000	0	0.000	0	4.500
Subtotal Recurring		1.400		1.400		0.000		0.000		0.000		37.200
B Kits												
Recurring												
Kit Quantity - APX-123 B-Kits	222	6.900	205	7.400	0	0.000	0	0.000	0	0.000	1,523	43.712
Subtotal Recurring		6.900		7.400		0.000		0.000		0.000		43.712
NonRecurring												
B-Kits, Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	21.800
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		21.800
Total, Global Air Traffic Mgmt RW APX-123	347	8.300	315	8.800	0	0.000	0	0.000	0	0.000	2,015	102.712
Global Air Traffic Mgmt RW APX-118 Upgrade Kits <sup>(4)</sup>												-
A Kits		-										
Recurring												
Kit Qty- Upgrade A-Kits	250	0.900	169	0.700	0	0.000	0	0.000	0	0.000	1,191	5.569
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.100
System Eng/Prog Mgt (SEPM)	0	0.641	0	0.600	0	0.000	0	0.000	0	0.000	0	8.341
Subtotal Recurring		1.541		1.300		0.000		0.000		0.000		14.010
B Kits												
Recurring												
Kit Qty- Upgrade B-Kits	501	4.500	21	0.300	0	0.000	0	0.000	0	0.000	3,153	33.000
Subtotal Recurring		4.500		0.300		0.000		0.000		0.000		33.000
NonRecurring												
B-Kits Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.200

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Modification Nomenclature (Modification Title, Modification Number):

2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

GATM Rotary Wing Aircraft - 0000

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, Type Modification: New or Improved Operational Capability

Related RDT&E PEs:

AH6,MH6, AH64A&D, OH58D&F, UAS

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost						
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		1.20
Total, Global Air Traffic Mgmt RW APX-118 Upgrade Kits	751	6.041	190	1.600	0	0.000	0	0.000	0	0.000	4,344	48.21
Global Air Traffic Mgmt RW ADS B Out <sup>(5)</sup>												
A Kits												
Recurring												
Kit Qty: ADS-B Out A-Kits	524	7.000	600	8.800	587	10.000	586	10.300	0	0.000	2,297	36.10
Engineering Change Orders	0	0.700	0	0.700	0	0.700	0	0.700	0	0.000	0	5.95
Data	0	0.700	0	0.700	0	0.700	0	0.700	0	0.000	0	4.40
Training Equipment	0	0.700	0	0.900	0	1.400	0	1.700	0	0.000	0	9.00
Fielding	0	0.200	0	0.200	0	1.100	0	1.100	0	0.000	0	3.40
System Eng/Prog Mgt (SEPM)	0	2.200	0	2.200	0	3.300	0	3.900	0	0.000	0	16.00
System Test & Eval (ST&E)	0	0.200	0	0.200	0	1.100	0	0.100	0	0.000	0	2.00
Other- PM Admin	0	2.000	0	2.100	0	3.100	0	3.300	0	0.000	0	15.10
Subtotal Recurring		13.700		15.800		21.400		21.800		0.000		91.95
NonRecurring												
Non-Recurring Engineering	0	0.000	0	0.607	0	3.130	0	3.345	0	0.000	0	54.08
Subtotal NonRecurring		0.000		0.607		3.130		3.345		0.000		54.08
B Kits								,				,
Recurring												
Kit Qty: ADS-B Out B-Kits	524	9.500	600	11.352	587	12.230	586	12.659	0	0.000	2,297	45.74
Subtotal Recurring		9.500		11.352		12.230		12.659		0.000		45.74
Total, Global Air Traffic Mgmt RW ADS B Out	1,048	23.200	1,200	27.759	1,174	36.760	1,172	37.804	0	0.000	4,594	191.77
Global Air Traffic Mgmt RW ARC-231 (6)												
A Kits												
Recurring												
Kit Qty- ARC-231 A-Kit	47	2.500	0	0.000	22	1.700	0	0.000	0	0.000	587	28.80

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Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

(Modification Title, Modification Number):

**Modification Nomenclature** 

2031A / BA 2 / BSA 10

AA0711 - GATM Rollup

GATM Rotary Wing Aircraft - 0000

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 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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 )
Testing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.800
Subtotal Recurring		2.500		0.000		1.700		0.000		0.000		29.600
NonRecurring												
NRE (A-Kit)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.800
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		13.800
B Kits												
Recurring												
Kit Qty- ARC-231 B-Kit	47	5.700	0	0.000	22	2.700	0	0.000	0	0.000	587	74.400
Subtotal Recurring		5.700		0.000		2.700		0.000		0.000		74.400
Total, Global Air Traffic Mgmt RW ARC-231	94	8.200	0	0.000	44	4.400	0	0.000	0	0.000	1,174	117.800
Global Air Traffic Mgmt RW Transition Doors (7)												
A Kits												
NonRecurring												
Equipment, Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.000
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		5.000
B Kits												
Recurring												
Transition Doors, Procurement	47	2.500	0	0.000	22	1.200	0	0.000	0	0.000	587	28.700
Subtotal Recurring		2.500		0.000		1.200		0.000		0.000		28.700
Total, Global Air Traffic Mgmt RW Transition Doors	47	2.500	0	0.000	22	1.200	0	0.000	0	0.000	587	33.700
Total, All Modifications		48.241		38.159		42.360		37.804		0.000		687.512
Procurement Cost (Procurement + Support)		48.241		38.159		42.360		37.804		0.000		687.512
Total Installation Cost		7.300		7.082		3.624		8.924		0.000		92.894
Total Cost (Procurement + Support + Installation)		55.541		45.241		45.984		46.728		0.000		780.406

Remarks:

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y: P-1 Line Item Nomenclature: AA0711 - GATM Rollup	Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000
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:
a unique address for selective interrogations which provide surveilla is scheduled to continue thru 2012. Europe currently mandates Mor funded 1,783 APX-118 A-Kits installations onto Army Aviation platfo (3)The APX-123 is an upgrade to the APX-118 and provides Mode 5 modulation, coding, and cryptographic techniques to overcome perform of A-Kits reflects requirements for the Unmanned Aircraft Systems (the production line. Installation of 32 HH60A&L A-Kits were paid for FY 2013 Base procurement dollars in the amount of \$11.212 million Systems (UAS) Shadow providing enhanced IFF Mode 5 capabilitie (4)The APX-118 was designed to allow it to be upgraded to provide accomplish this upgrade effort. All APX-118s will be upgraded to ar and enhanced security provisions to the transponder. PM AME is pr FY 2013 Base procurement dollars in the amount of \$10.035 million transponders.  (5)Automatic Dependent Surveillance Broadcast (ADS B) Out is a Pr a ground receiver. Use of ADS B Out will move air traffic control fro decision which mandates ADS B equipage by 2020 for all aircraft op being procured to meet initial spares and training requirements.  FY 2013 Base procurement dollars in the amount of \$32.455 million support of ADS B for mandated Air Traffic Control (ATC) services for (6)Global Air Traffic Management (GATM) is the military equivalent of ARC-231 Radio provides the aircraft with the 8.33kHz channel space and verify the Airworthiness Release (AWR) and the Modification W FY 2013 Base procurement dollars in the amount of \$10.599 million (7)Global Air Traffic Management (GATM) is the military equivalent of procurement and installation of the ARC-231 maintenance transition from the ARC-231 maintenance transition of the ARC-231 maintenance transition.	ance benefits, improving aircraft identification. The APX-118 is curred of S for all aircraft operations. FY 2012 funding completed the final orms, the remaining 265 A-Kits were procured to satisfy Initial Spare 5 Level 2 capability. Mode 5 presents an improvement to the aging I formance and security problems. It also improves compatibility with (UAS) Shadow and the HH60A&L. The other aircraft platforms fund in by the aircraft platform.  In supports procurement of APX-123 B-Kits, as well as procurement in a supports procurement of APX-123 B-Kits, as well as procurement in APX-123. The upgrade kit consists of a new cryptographic circuit recurring 357 kits for production and training equipment installs in what is supports procurement and installation of Mode 5 upgrade kits which in supports procurement and installation of Mode 5 upgrade kits which is supports procurement to a satellite-derived aircraft location systems a radar based system to a satellite-derived aircraft location systems are procured and in the National Airspace. AME will fund 1,472 ADS B Out the supports the associated Non Recurring Engineering (NRE) integrals or the applicable aviation platforms.  In supports the mandated requirement for aircraft in Europe. Curred for the International Civil Aviation architecture known as Communicating meeting the mandated requirement for aircraft in Europe. Curred for the International Civil Aviation architecture known as Communicating meeting the mandated requirement for aircraft in Europe. Curred for the International Civil Aviation architecture known as Communicating doors on the UH60A&L platform facilitates easier access to the equirement of the International Civil Aviation architecture known as Communicating doors on the UH60A&L platform facilitates easier access to the equirement facilita	Mode 4 Identification, Friend, or Foe (IFF) System. Mode 5 uses modern civil Air Traffic Control (ATC) by providing less interference. Procurement the procurement and installation of their B-Kits since they are installed on of Reduced Form Factor APX-123 A and B Kits, for the Unmanned Aircraft an APX-118 to an APX-123. Tobyhanna Army Depot (TYAD) will card assembly which provides both IFF Mode 4 and Mode 5 capabilities nich the product office will not fund these installations. The convert previously fielded APX-118 transponders to APX-123 broadcasts information about an aircraft through an onboard transmitter to m. The Federal Aviation Administration (FAA) published their rulemaking kit installations onto Army Aviation platforms and the remaining 825 kits are tion which will facilitate an enhanced Global Positioning System (GPS) in ations, Navigation, Surveillance and Air Traffic Management programs. The int delays to the program reflect the extended timeline required to validate
FY 2013 Base procurement dollars in the amount of \$5.800 million s	supports the procurement and installation of ARC-231 maintenance	transition doors onto the UH60A&L platforms.
Manufacturer Information: Global Air Traffic Mgmt RW APX-118  Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Green	alawn NY
manadadio namo. Dr.E. dystems, modiporated	Manufacturor Education. Green	100 mg (11 mg)

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Exhibit P-3A, Indiv	idual Modification: P	B 2013 Army				Date: February 2012	
<b>Appropriation / Bu</b> 2031A / BA 2 / BSA	dget Activity / Budge 10	t Sub Activity:	P-1 Line Item No AA0711 - GATM I			Modification Nome (Modification Title, M GATM Rotary Wing A	odification Number
	s Affected: UH&HH60. MH47D/G/E/F, MH60 D, OH58D&F, UAS		e Modification: New pability	or Improved Operational	Related R	DT&E PEs:	
Manufacturer Informati	on: Global Air Traffic Mgm	t RW APX-118			·		
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	nths): 3		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informati	on: Global Air Traffic Mgm	t RW APX-123					
Manufacturer Name: BA	E Systems, Incorporated			Manufacturer Location: Gree	enlawn, NY		
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	nths): 15		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates			Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates			Feb 2014	Feb 2015	Feb 2016	Feb 2017	Feb 2018
Manufacturer Informati	on: Global Air Traffic Mgm	t RW APX-118 Upgrad	le Kits				
Manufacturer Name: BA	E Systems, Incorporated			Manufacturer Location: Gree	enlawn, NY		
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	nths): 14		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Dec 2010	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates	Jan 2012	Jan 2013	Jan 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018
Manufacturer Informati	on: Global Air Traffic Mgm	t RW ADS B Out					
Manufacturer Name: BA	E Systems, Incorporated			Manufacturer Location: Gree	enlawn, NY		
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	nths): 16		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates				Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates				Mar 2015	Mar 2016	Mar 2017	Mar 2018
Manufacturer Informati	on: Global Air Traffic Mgm	t RW ARC-231					
Manufacturer Name: Ray	ytheon, Incorporated			Manufacturer Location: Fort	Wayne, IN		
Administrative Leadtime	(in Months): 2			Production Leadtime (in Mo	nths): 10		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Dec 2010	Dec 2011	Dec 2012	Dec 2013		Dec 2015	
Delivery Dates	Sep 2011	Sep 2012	Sep 2013	Sep 2014		Sep 2016	

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				UNG	CLASS	SIFIED							
Exhibit P-3A, Indiv	idual Modification: P	B 2013 Army							D	ate: Febru	ary 2012		
Appropriation / Bu 2031A / BA 2 / BSA	<b>dget Activity / Budge</b> 10	et Sub Activity:	I	Line Item I 711 - GATI					(/	/lodificatio	on Nomeno on Title, Mod ary Wing Ai	dification l	•
_	s Affected: UH&HH60 MH47D/G/E/F, MH60 D, OH58D&F, UAS	· .	Type Modif Capability	ication: Ne	ew or Im	proved Ope	rational	Relate	ed RDT&E	PEs:			
Manufacturer Informati	on: Global Air Traffic Mgm	nt RW Transition D	oors					·					
Manufacturer Name: Avia	ation Applied Technology Di	rectorate (AATD)			Ma	anufacturer Loc	ation: Fort Bel	voir, VA					
Administrative Leadtime	(in Months): 2				Pro	oduction Leadti	me (in Months	s): 15					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015		FY 20	16	FY 2	017
Contract Dates	Dec 2010	Dec 2011		Dec 2012		Dec 2013				Dec 20	)15		
Delivery Dates	Feb 2012	Feb 2013		Feb 2014		Feb 2015				Sep 20	)17		
Installation: Global Air T	raffic Mgmt RW APX-118		lethod of Im evel Installati		: Modificat	tion Work Orde	r (MWO) Depo		tion Name:				
		Pri	or Years	FY	2011	FY	2012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost		Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos	ot Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years		1,2	9.35	6 319	2.2	200 221	1.500	0	0.000	0	0.000	0	0.00
FY 2011			0.00	0 0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
FY 2012			0.00	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
FY 2013			0.00	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
FY 2014			0.00	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
FY 2015			0.00	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
FY 2016			0.00	0 0	0.0	000 0	0.000	0	0.000	0	0.000	0	-
FY 2017			0.00	0 0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.00
			- 1	- 1	1	1	1			1	1		1

	FY 2	014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
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	1,783	13.056
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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1,243

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To Complete

Total

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P-1 Line #31

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Exhibit	P-3 <i>F</i>	A, Inc	divid	ual N	/lodif	icatio	n: PE	3 201	3 Arn	าy													D	ate:	Febr	ruary	2012			
<b>Approp</b> i 2031A /					ctivit	y / B	udget	Sub	Acti	vity:		<b>P-1 L</b> AA07					ure:						(/	Modi	ficati	on Ti	omen tle, Mo Ving A	difica	ation I	lumber <b>):</b> 10
Models CH47D8 AH6,MH	kF, L	JH60	M, M	1H47	D/G/E	E/F, N	1H60L				y <b>pe N</b> apab		catio	<b>n</b> : Ne	w or I	mpro	oved C	Oper	ationa	I	Rela	ated	I RDT&E	E PE	s:					
Installatio	n: Gl	obal A	Air Tra	ffic Mo	ımt RV	V APX-	118					<b>of Imp</b> stallatio		tation:	Modific	cation	Work C	Order	(MWO)	Depo		allati	on Name:							
										FΥ	2014			FY 2	015			FY 2	2016			Y 20				omple	te		То	al
Installatio	n Co	st							Ι,	<b>Qty</b> (Each)		al Cost		ity ach)	Total C		Qty (Eacl		Total C		<b>Qty</b> (Each)		Total Cost (\$ M)		<b>Qty</b> ∃ach)		tal Cost		t <b>y</b> ach)	Total Cost (\$ M)
FY 2014											0	0.000		0		0.000		0	(	0.000		0	0.000			0	0.000		0	0.000
FY 2015											0	0.000		0		0.000		0	(	0.000		0	0.000			0	0.000		0	0.000
FY 2016											0	0.000		0		0.000		0	(	0.000		0	0.000			0	0.000		0	0.000
FY 2017											0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0	0.000
To Comple	ete										0	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0	0.000
Total											0	0.000		0		0.000		0	(	0.000		0	0.000			0	0.000		1,783	13.056
Installatio	n Sci	neaui	FY 20	144		-	FY 20	042			FY 2	2012		-	FY 20	014			FY 2	015			FY 201	16			FY 20	047		
AP	<b>,</b>	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1		3	4	1	2	3	4	TC Tot
In 1,24	_	80	80	79	80	56	55	<b>5</b>	55	0	0	0	0	0	0	0	0	'		0		'		_	0	0	0	0	0	0 1,783
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Out  1.16	64	79	79	80	79	80	56	55	55	56	0	0	0	0	0	0	0	(	0	0		(		0	0	0	0	0	0	0 1.783
Out 1,16	64	79	79	80	79	80	56	55	55	56	0	0	0	0	0	0	0	(	0	0				_	0	0	0	0	0	0 1,783
Out  1,16								55	55	M	ethod		lemen						(MWO)		0 ot	(		_	0	0	0	0	0	0 1,783
,								55	55	M	ethod	of Imp	lemen		Modific				(MWO)		ot Insta	allati	0	0	- 1	0				0 1,783
,	n: Gl	obal A						55		M	ethod evel Ins	of Imp	lemen n	tation:	Modific	cation		Order	(MWO)	Depo	ot Insta	allati	on Name:	0	- 1	013 O		I		
Installatio	n: Gl	obal A						55		Prio	ethod evel Ins	of Imp stallatio	lemen n	tation:	Modifice  O11  Total C	cation	Work (	Order	(MWO) 2012 Total C	Depo	o Insta	allati	on Name: Base Total Cost	0	FY 20 Qty Each)	013 O	CO tal Cost	I C (Ea	FY 201	3 Total Total Cost
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Installatio Installatio	n: Gl	obal A						55		Prio Qty	ethod evel Ins or Year Tot	of Impostallations sal Cost \$ M ) 0.000	lemen n	FY 2	Modific 011 Total C	Cost	Work (	FY 2	(MWO) 2012 Total C	Depo	o Insta	2013	on Name:  Base  Total Cost (\$M) 0.000	0 (1	FY 20 Qty Each)	013 O	CO tal Cost (\$ M)	I C (Es	FY 201 ty ach)	Total Cost (\$ M) 0.000
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Installatio Installatio All Prior Ye FY 2011 FY 2012	n: Gl	obal A						55		Prio Qty (Each)	lethod evel Inser Year Tot (0 0	of Imp stallatio s al Cost \$ M ) 0.000 0.000	lemen n	FY 2  tation:  FY 2  tty  0 0	Modific	Cost 1) 0.000 0.000 0.000	Work (	FY 2	(MWO) 2012 Total Cr (\$ M	Depo pst ) ).000 ).000 ).000	o Insta	2013	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (1	FY 20 Qty Each)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000	C (Ea	FY 201 tty 0 0 0	3 Total Total Cost (\$ M ) 0.000 0.000
Installatio All Prior Ye FY 2011 FY 2012 FY 2013 FY 2014 FY 2015	n: Gl	obal A						55		Prio Qty (Each)	ethod evel Ins or Year Tot (0 0 0	of Imp stallatio s al Cost \$ M ) 0.000 0.000 0.000	lemen n	FY 2  ty ach) 0 0	Modific	Cost 1) 0.000 0.000 0.000 0.000	Work (	FY 2 (h) 0 0	(MWO) 2012 Total Cr (\$ M	Depo pst ) ) ) ) ) ) ) ) ) ) ) ) )	Insta	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (1	FY 20 Qty Each)	0 To 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CO tal Cost (\$ M) 0.000 0.000 0.000	C (Ea	FY 201  ty nch)  0 0 0	3 Total Total Cost (\$ M ) 0.000 0.000 0.000
Installatio Installatio All Prior Ye FY 2011 FY 2012 FY 2013 FY 2014	n: Gl	obal A						55		Prio Oty (Each)	ethod evel Ins or Year Tot (0 0 0	of Imp stallatio S al Cost \$ M ) 0.000 0.000 0.000	lemen n	FY 2  ty  och)  0  0  0	Modific	Cost 1) 0.000 0.000 0.000 0.000 0.000	Work (	FY 2 (h) 0 0 0	(MWO) 2012 Total Cr (\$ M	Depo Dest ) ) ) ) ) ) ) ) ) ) ) ) )	ot Insta	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 0 0 0 0 0 0 0 0 0 0	0 (1	FY 20 Qty Each)	0 To 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CO tal Cost (\$ M) 0.000 0.000 0.000 0.000	C (Ea	FY 201 ty	Total Cost (\$ M) 0.000 0.000 0.000 0.000

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<b>Appro</b> 2031A	pria	41 1						201	3 Arn	ıy													U	ate:	rebr	uary	2012				
					ctivit	y / B	udge	t Sub	Acti	vity:				tem N GATN			ure:						(/	/lodi	ficatio	on Ti	omen tle, Mo	difica	ation		ber):
Model CH47I AH6,M	D&F,	UH6	OM, N	ЛН47	D/G/E	E/F, N	1H60L		,	-	<b>/pe N</b> apabi		catio	n: Ne	w or	Impro	oved (	Opera	ationa	l	Re	lated	RDT&E	PE	s:						
Installa	ition:	Global	Air Tra	affic Mo	gmt RV	V APX-	123					of Imp		tation:	Modifi	ication	Work (	Order (	(MWO)	Depot		allatio	on Name:								
										Prio	r Years	5		FY 2	2011			FY 20	012		FY	2013	Base		FY 20	13 00	co	ı	FY 201	3 Tota	al
Installa	tion C	Cost								<b>Qty</b> Each)		al Cost		Qty ach)	Total		Qty (Eac		Total C		<b>Qty</b> (Each)		Total Cost (\$ M)		Qty Each)		al Cost		lty ach)		Cost
To Com	plete								<u> </u>	-	,	-		-		-	,	-		-	( /	-	-	,	-	<u> </u>	-	,	-	(,	-
Total										(	)	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
																· · · · · ·								1				· · · · · · · · · · · · · · · · · · ·			
											2014				015			FY 20				FY 20				omple				tal	
Installa	tion C	Cost								<b>Qty</b> Each)		al Cost		Qty ach)	Total (\$ A		Qty (Eac		Total C (\$ M		<b>Qty</b> (Each)		Total Cost (\$ M)		<b>Qty</b> Each)		(\$ M )		l <b>ty</b> ach)		Cost
All Prior	r Year	s									)	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	1									18	)	1.300		45		0.360		0		0.000		0	0.000			0	0.000		225		1.660
FY 2012	2									(	)	0.000		80		0.640		45		0.360		0	0.000			0	0.000		125		1.000
FY 2013	3										ס	0.000		0		0.000		30		0.240		80	0.600			0	0.000		110		0.840
FY 2014	4										ו	0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	5									-		-		-		-		-		-		-	-		-		-		-		-
FY 2016										-		-		-		-		-		-		-	-		-		-		-		-
FY 2017										-		-		-		-		-		-		-	-		-		-		-		-
To Com	plete									-		-		-		-		-		-		-	-		-		-		-		-
Total										18	ס	1.300		125		1.000		75		0.600		80	0.600			0	0.000		460		3.500
Installa	tion S	Schedu																													
			FY 2				FY 2				FY 2				FY 2					2015			FY 201	_			FY 20				
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1		3	4	1	2	3	4	TC	Tot
In Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	90	32	31	31	31	18		19	19	20	20	20	20	0	
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	90	32	31	31	31	18	19	19	19	20	20	20	20	0	460

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0711 - GATM Rollup	Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000
Models of Systems Affected: UH&HH60A&L,	Type Modification: New or Improved Operational	Related RDT&E PEs:

CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

Capability

Method of Implementation: Modification Work Order (MWO) Depot Installation: Global Air Traffic Mgmt RW APX-118 Upgrade Kits Level Installations Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty **Total Cost** Total Cost Qty **Installation Cost** (Each) (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) 0.100 183 0.900 449 2.800 423 1.627 0 0.000 423 1.627 All Prior Years FY 2011 0 0.000 0.000 0 0.000 97 0.373 0 0.000 97 0.373 FY 2012 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2013 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 FY 2014 0.000 0 0 0.000 0 0.000 0.000 FY 2015 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2016 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0 0 0 0 0.000 To Complete Total 5 0.100 183 0.900 449 520 2.000 0 0.000 520 2.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
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	1,060	5.427
FY 2011	463	0.965	0	0.000	0	0.000	0	0.000	0	0.000	560	1.338
FY 2012	17	0.035	442	1.000	63	0.195	0	0.000	0	0.000	522	1.230
FY 2013	0	0.000	0	0.000	325	1.005	164	0.947	0	0.000	489	1.952
FY 2014	0	0.000	0	0.000	0	0.000	165	0.953	336	0.000	501	0.953
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	21	0.000	21	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	480	1.000	442	1.000	388	1.200	329	1.900	357	0.000	3,153	10.900

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														UN	CLAS	SSIF	IED														
Exh	ibit P-	3A, I	ndivi	dual I	Modi	ficatio	on: PE	3 201	3 Arn	ny														Date:	: Feb	ruary	2012				
	ropria 1A / B			_	ctivi	ity / B	udge	t Sub	Acti	vity:					<b>Nome</b> M Rolli		ture:							(Mod	ificati	on Ti	omen tle, Mo Ving A	odifica	ation		nber):
CH4	lels of 17D&F 5,MH6,	, UH6	60M, I	MH47	D/G/	E/F, N	лН60I		,		y <b>pe N</b> apab		catio	n: Ne	ew or l	Impro	oved	Opera	ationa	I	Rel	atec	RDT8	kE PE	Es:						
	llation:			affic M	gmt R'	W APX	-118 U <sub>l</sub>	pgrade	Kits			<b>of Imp</b> stallatio		tation	: Modifi	cation	Work	Order	(MWO)	Depot		allatio	on Name	<b>e</b> :							
Insta	llation	Sched													_		_	ı	_												
			FY 2	_			FY 2				FY 2				FY 2				FY 2				FY 20				FY 2				
	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	
In O	5	48	46		43	-		113	111	130	131	129	130	120		120	120			109	112	97		97	97	82	82 82	83	82		2,79
Out	-	5	48	46	46	43	113	112	113	111	130	131	129	130	120	120	120	120	111	110	109	112	97	97	97	97	82	82	83	82	2 2,79
Insta	llation:	Globa	Air Tr	affic Mo	gmt R'	W ADS	B Out					of Imp		tation	: Modifi	cation	Work	Order	(MWO)	Depot		allatio	on Name	ə:							
										Prio	r Year	s		FY	2011			FY 2	012		FY 2	2013	Base		FY 2	013 O	30	F	FY 20 <sup>-</sup>	13 To	tal
Insta	llation (	Cost								<b>Qty</b> (Each)		al Cost \$ M )		<b>lty</b> ach)	Total (		Qt; (Eac		Total C (\$ M		Qty (Each)		Total Cost		<b>Qty</b> (Each)		tal Cost (\$ M )		Qty ach)		tal Cost
All P	ior Year	s									0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	011										0	0.000		0		0.000		0	-	0.000		0	0.00	00		0	0.000	(	0	)	0.00
FY 2	012										0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	013										0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	014										0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	015										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	016										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000	)	0	)	0.00
FY 2	017										0	0.000		0		0.000		0	1	0.000		0	0.00	00		0	0.000	)	0	)	0.00
То С	omplete										0	0.000		0		0.000		0	(	0.000		0	0.00	00		0	0.000	)	0	)	0.00
Total											0	0.000		0		0.000		0	-	0.000		0	0.00	00		0	0.000	)	0	ו	0.00
										FY	2014			FY	2015			FY 2	016		F	Y 20	17		To C	omple		$\overline{}$	— <u>т</u>	otal	
Insta	llation (	Cost								Qty (Each)	Tot	al Cost		ity ach)	Total (		Qt; (Ead	y	Total C		Qty (Each)		Total Cost		Qty (Each)	Tot	tal Cost		Qty ach)	Tot	tal Cost
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FY 2	າ13										0	0.000		0		0.000		0	-	0.000		0	0.00	00		0	0.000	5		)	0.00

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Exh	ibi	t P-3/	۹, Ir	ıdivi	dual	Мо	difi	cati	on: F	PB 20	13 A	Army														D	ate:	Febr	uary	2012				
		priati / BA :				Act	ivit	y / E	Budg	et Su	ıb A	ctivit	y:		<b>P-1 L</b> i AA07	_		-		ure:						(Λ	1odi	ificatio	on Tit	omen le, Mo Ving A	difica	ation i		ber):
CH4	17D	<b>s of S</b> )&F, U H6, A	JH6	0M,	MH47	7D/	G/E	/F, I	MH60					<b>pe M</b> pabil	<b>lodific</b> lity	catio	n: Ne	ew or	Impro	oved (	Oper	ationa	ıl	Re	lated	RDT&E	PE	s:						
Insta	ıllati	ion: Gl	lobal	Air Tr	affic M	lgm	t RW	/ ADS	S B Ou	t					of Impletation		ntation:	Modifi	ication	Work (	Order	(MWO	Depot		allatio	on Name:								
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FY 2	015												0		0.000		0		0.000		0		0.000		600	2.281			0	0.000		600		2.281
FY 2	016												0		0.000		0		0.000		0		0.000		348	1.323			0	0.000		348		1.323
FY 2	017												0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
To C	omp	olete											0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
Total													0		0.000		150		0.500		270		1.300	1	,052	4.000			0	0.000		1,472		5.800
Insta	llati	ion Sc	hedu																															
		<b>D</b>		FY 2						2012	7 .			FY 20				FY 2				_	2015			FY 201				FY 20				
In	+	PY -	<b>1</b>	<b>2</b>	<b>3</b>	-	<b>4</b>	1 0	2	3	0	0	0	0	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	1	<b>2</b>	<b>3</b> 75	<b>4</b> 75	<b>1</b> 68		<b>3</b> 68	<b>4</b> 67	<b>1</b> 263	<b>2</b> 263	<b>3</b> 263	<b>4</b> 263	TC	<b>Tot</b> 1,472
Out	+	-	0	0	0	-	0	0	_	_	0	0	0	0	0	0	$\overline{}$	0	0	0	C				75		67	68	67	263	263	263		1,472
Insta	llati	ion: Gl	lobal	Air Tr	affic M	lgm	t RW	/ ARC	C-231						<b>of Impl</b> tallatior		itation:	Modifi	ication	Work (	Order	(MWO	Depot		allatio	on Name:								
												ı	Prior	Years	3		FY 2	2011			FY 2	012		FY	2013	Base		FY 20	13 00	0		FY 201	3 Tota	al
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All Pi	rior `	Years											0		0.000		120		6.000		0		0.000		0	0.000		,	0	0.000		0		0.000
FY 2	011												0		0.000		0		0.000		299	1	5.000		0	0.000			0	0.000		0		0.000
FY 2	012												0		0.000	_	0		0.000		0		0.000		52	2.399			0	0.000		52		2.399
FY 2	013												0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2													0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2											_		0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 2													0		0.000		0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
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P-1 Line #31

Exhi	bit P-	3A, lı	ndivid	dual I	Vlodif	icatio	n: PE	3 201	3 Arn	าy													D	ate:	Febr	uary	2012				
	r <b>opria</b> A / B/				Activit	ty / B	udge	t Sub	Acti	vity:				t <b>em N</b> GATM			ure:						(/	Modi	ficatio	n Tit	omeno tle, Mo Ving Ai	difica	ation i		per):
CH4	els of 7D&F ,MH6,	, ÚH6	60M, N	<b>ЛН47</b>	D/G/E	Ξ/F, N	/H60L		,		ype N apab		catio	n: Ne	w or	Impro	oved (	Opera	ational		Rel	ated	RDT&E	E PE	s:						
Instal	lation:	Global	l Air Tra	affic M	gmt RV	V ARC	-231				ethod evel Ins			tation:	Modifi	cation	Work (	Order	(MWO)	Depot		allatic	on Name:								
										Prio	r Year	S		FY 2	011			FY 2	012		FY 2	2013 I	Base		FY 20	13 OC	co	ı	FY 201	3 Tota	ıl
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Total											0	0.000		120		6.000		299	15.	000		52	2.399		(	)	0.000		52		2.399
										EV	2014			FY 2	015	T		FY 2	016			Y 201	17	1	To Co	mnlo	to		То	tal	
Instal	lation (	Cost								Qty (Each)	Tota	al Cost		Qty ach)	Total ( (\$ Λ		Qty (Eac	,	Total Co	st	Qty (Each)		Total Cost		Qty Each)	Tot	tal Cost		Qty ach)	Total	Cost
	or Year								<b>—</b> '		0	0.000	<b>+</b> '	0	(\$ 7.	0.000	(200	0		000	(Luon)	0	0.000	+ ,	(	+ '	0.000	(2	120	(0)	6.000
FY 20	11										0	0.000		0		0.000		0	0.	000		0	0.000		(	)	0.000		299		15.000
FY 20	12										0	0.000		0		0.000		0	0.	000		0	0.000		(		0.000		52		2.399
FY 20	13									4	7	1.900		0		0.000		0	0.	000		0	0.000		(	)	0.000		47		1.900
FY 20	14										0	0.000		47		2.291		0	0.	000		0	0.000		(	)	0.000		47		2.291
FY 20	15										0	0.000		0		0.000		0	0.	000		0	0.000		(	)	0.000		0		0.000
FY 20	16										0	0.000		0		0.000		0	0.	000		22	0.924		(		0.000		22		0.924
FY 20											0	0.000		0		0.000		0	0.	000		0	0.000		(	)	0.000		0		0.000
	mplete									-		-		-		-		-		-		-	-		-		-		-		-
Total										4	7	1.900		47		2.291		0	0.	000		22	0.924		(	)	0.000		587		28.514
instai	lation	scnea	FY 2	011			FY 2	012			FY 2	013			FY 2	014			FY 20	115			FY 201	16			FY 20	17			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1		3	4	1	2	3	4	тс	Tot
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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: AA0711 - GATM Rollup	Modification Nomenclature (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000
Models of Systems Affected: UH&HH60A&L,	Type Modification: New or Improved Operational	Related RDT&E PEs:

CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

Capability

Installation: Global Air Traffic Mgmt RW Transition Doors		thod of Imple el Installation		Modification	Work Order	(MWO) Depo	I	tion Name:				
	Prior	Years	FY 2	:011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	165	10.509	55	2.683	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	150	7.317	49	1.782	0	0.000	49	1.782
FY 2012	0	0.000	0	0.000	0	0.000	39	1.418	0	0.000	39	1.418
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	165	10.509	205	10.000	88	3.200	0	0.000	88	3.200

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	220	13.192
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	199	9.099
FY 2012	13	0.822	0	0.000	0	0.000	0	0.000	0	0.000	52	2.240
FY 2013	36	2.278	11	0.536	0	0.000	0	0.000	0	0.000	47	2.814
FY 2014	0	0.000	36	1.755	11	0.524	0	0.000	0	0.000	47	2.279
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	17	1.500	5	0.000	22	1.500
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	49	3.100	47	2.291	11	0.524	17	1.500	5	0.000	587	31.124

LI AA0711 - GATM Rollup Army

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Exhibi	031A / BA 2 / BSA 10 odels of Systems Affected: UH&HH60A8 H47D&F, UH60M, MH47D/G/E/F, MH60L/P								201	3 Aı	my																						Daf	te: F	ebr	uar	y 2	012					
	Appropriation / Budget Activity / Budget S 2031A / BA 2 / BSA 10 Models of Systems Affected: UH&HH60A&I CH47D&F, UH60M, MH47D/G/E/F, MH60L/K AH6,MH6, AH64A&D, OH58D&F, UAS						Sub	Ac	tivit	y:			-					ome Roll		ature	€:										(Mc	dific odific TM F	atio	on T	Title	e, Mo	odifi	catio	on N		ber):		
CH47E	D&F	, UH	60M,	MH47	)/G/	E/F,	MH					- 1		e M abil		ifica	atio	n: N	lev	w or	Imp	rove	d C	Oper	rat	iona	al		Re	lated	A K	DT	ķE I	PEs:	1								
Installat				raffic Mg	mt R\	N Tra	nsitic	n Do	oors							n <b>ple</b> i tions		tatio	n: N	Modif	icatio	n Wo	ork C	Order	r (N	1WO	) Der	oot	Inst	allati	on	Nam	e:										
	Installation Schedule FY 2011 FY 2012											F	Y 20	013					FY 2	014					FY	2015					FY 2	016			-		FY 2	017					
Ι Δ	PY	1	2	3	4	1	2		3	4		1	2	,	3	Ι.	4	1		2	3	4	ιl	1		2	3		4	1		2	3		ı	1		2	3	4	.	TC:	Tot

P-1 Line #31

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LI AA0711 - GATM Rollup
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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 2: Modification of Aircraft / BSA 10:

A00018 - RQ-7 UAV MODS

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :		Prograi	m Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	<b>ents:</b> 037520	04A, 0375233.	A
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
(The follows)	owing Resource	Summary rows	are for informa	ational purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

# Flyaway Unit Cost (\$ in Thousands)

## **Description:**

RQ-7 UAV: Tactical Unmanned Aerial System (TUAS) Shadow 200 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 709,000 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, launcher, 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 is electro-optic infrared (EO/IR), with a Laser Designator (LD) payload currently being retrofit. The Army has procured 102 systems through FY2009. Funding for FY10 and subsequent years 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 is the previously mentioned Laser Designator (LD) payload (already under way). Development efforts will bring upgraded capabilities through additional payloads to include: signals intelligence (SIGINT); 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 Increment II consists of a receiver, toughbook computer, antenna, UHF Modem, Type 1 encryption, and an optional extended range antenna. Software supports decoding Telemetry Data from multiple UASs, links data onto Falcon View maps, provides for EO/IR payload control, and supports Off Target Calculations. The FY13 Base procurement dollars support the OSRVT Bi-directional communications modifications that enable Level of Interoperability (LOI) 3 operations, allowing control of the Unmanned Aircraft Systems (UAS) payload for optimum SA. Capabilities include displays that support identifying/distinguishing people behavior/ technology, handheld displays for ground-mounted Soldiers, and interoperability with joint RSTA systems.

LI A00018 - RQ-7 UAV MODS

Army

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P-1 Line #32

Exhibit P-40, Budget Item Justification Sheet: PB 201	3 Army		Date: February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification Modification Of Aircraft		P-1 Line Item Nomenclatu A00018 - RQ-7 UAV MODS	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	ems:	Other Related Program Elements: 0375204A, 0375233A

ID Code (A=Service Ready, B=Not Service Ready):
Funding for OSRVT upgrades is described in the OSRVT P3a.

Item Scho	edule		Р	rior Yea	rs		FY 2011			FY 2012		FY	′ 2013 Ba	ase	FY	2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
RQ-7 UAV MODS - 0000	P3A		-	-	649.939	-	-	548.998	-	-	165.139	-	-	104.339	-	-	-	-	-	104.339
Total Gross/Weapon System Cost					649.939			548.998			165.139			104.339			-			104.339
				FY 2014			FY 2015	,		FY 2016			FY 2017		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
RQ-7 UAV MODS - 0000	P3A		-	-	144.790	-	-	143.584	-	-	135.313	-	-	137.220	-	-	0.000	-	-	2,029.322
Total Gross/Weapon	Ti and the second secon				144.790			143.584			135.313		ì	137,220			0.000			2,029.322

<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.

#### Justification:

FY2013 Base funding of \$104.339 million supports acquisition of 7 Shadow TCDL retrofit kits (and associated spares), 7 launchers, 44 enhanced mission computers, 8 Universal Mission Simulators, 400 OSRVT modification kits, and Program Management, Engineering and Logistics support.

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Exhibit P-3A, Individual Modification: P	B 2013 Arm	ıy							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budget 2031A / BA 2 / BSA 10	t Sub Activ	vity:		<b>tem Nome</b> RQ-7 UAV					(Modificat	ion Nome ion Title, M / MODS -	Modification .	Number <b>)</b> :
Models of Systems Affected: TCDL, SH. SYSTEM MODIFICATION, SHAWDOW PAUPGRADE/MODIFICATION, ENCRYPTIO MODIFICATION	AYLOAD	Type I	Modification	n: UNCLA	SSIFIED		Re	elated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	649.939	548.998	165.139	104.339	-	104.339	144.790	143.584	135.313	137.220	0.000	2,029.322
(The follo	wing Resource S	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> Shadow Modifications												

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number) RQ-7 UAV MODS - 0000

Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION

Type Modification: UNCLASSIFIED

Related RDT&E PEs:

	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Tota	
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Procurement												
SHADOW TACTICAL COMMON DATA LINK (TCDL) (1)												
A Kits												
Recurring												
TCDL System Retrofit Kits	19	262.800	42	373.800	6	55.819	7	25.891	0	0.000	7	25.89
UGCS Only System Retrofit	13	35.700	3	10.671	0	0.000	0	0.000	0	0.000	0	0.0
Launchers	0	0.000	42	12.027	0	0.000	7	2.901	0	0.000	7	2.90
GFE	0	16.000	0	13.200	0	2.225	0	2.640	0	0.000	0	2.6
Training Equipment	0	5.800	0	11.200	0	0.000	0	19.915	0	0.000	0	19.9
Training	0	8.100	0	6.900	0	2.670	0	16.288	0	0.000	0	16.2
Program Management	0	7.800	0	8.300	0	5.263	0	9.265	0	0.000	0	9.2
Engineeering	0	3.100	0	3.300	0	2.091	0	3.681	0	0.000	0	3.6
Logistics	0	6.300	0	6.700	0	4.245	0	7.474	0	0.000	0	7.4
Subtotal Recurring		345.600		446.098		72.313		88.055		0.000		88.0
Total, SHADOW TACTICAL COMMON DATA LINK (TCDL)	32	345.600	87	446.098	6	72.313	14	88.055	0	0.000	14	88.0
SHADOW SYSTEM MODIFICATIONS (2)												,
A Kits												
Recurring												
Attrition Air Vehicles	0	0.000	0	0.000	68	71.535	0	0.000	0	0.000	0	0.0
Mission Computer	0	0.000	0	0.000	0	0.000	44	3.519	0	0.000	44	3.5
High Reliability Engine	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Tripe Redundant Avionics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Program Management	0	0.000	0	0.000	0	4.334	0	0.493	0	0.000	0	0.4
Engineering	0	0.000	0	0.000	0	1.722	0	0.196	0	0.000	0	0.19
Logistics	0	0.000	0	0.000	0	3.496	0	0.398	0	0.000	0	0.3
Subtotal Recurring		0.000		0.000		81.087		4.606		0.000		4.60

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000

Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION Type Modification: UNCLASSIFIED

Related RDT&E PEs:

	Prior	FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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 Cos
Total, SHADOW SYSTEM MODIFICATIONS	0	0.000	0	0.000	68	81.087	44	4.606	0	0.000	44	4.60
SHADOW PAYLOAD UPGRADES/MODIFICATIONS (3)												
A Kits												
Recurring												
Laser Designator	54	60.900	52	57.200	0	0.000	0	0.000	0	0.000	0	0.00
SIGINT	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
EO/IR/LD Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Training	0	2.600	0	3.100	0	0.000	0	0.000	0	0.000	0	0.00
Program Management	0	1.539	0	1.200	0	0.000	0	0.000	0	0.000	0	0.00
Engineering	0	0.600	0	0.500	0	0.000	0	0.000	0	0.000	0	0.00
Logistics	0	1.200	0	0.900	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		66.839		62.900		0.000		0.000		0.000		0.00
Total, SHADOW PAYLOAD UPGRADES/MODIFICATIONS	54	66.839	52	62.900	0	0.000	0	0.000	0	0.000	0	0.00
ENCRYPTION AND OSRVT MODIFICATIONS (4)								<u> </u>				
A Kits												
Recurring						,						
OSRVT Retrofit Kits	2,357	175.800	580	37.100	0	0.000	0	0.000	0	0.000	0	0.00
OSRVT BI Directional Modification Kit	0	0.000	0	0.000	400	10.200	400	10.200	0	0.000	400	10.20
Army TIES Retrofit Kits	470	56.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Program Management	0	4.800	0	2.900	0	0.639	0	0.600	0	0.000	0	0.60
Engineering	0	0.000	0	0.000	0	0.500	0	0.500	0	0.000	0	0.50
Logistics	0	0.000	0	0.000	0	0.400	0	0.378	0	0.000	0	0.37
Subtotal Recurring		237.500		40.000		11.739		11.678		0.000		11.67
Total, ENCRYPTION AND OSRVT MODIFICATIONS	2,827	237.500	580	40.000	400	11.739	400	11.678	0	0.000	400	11.67
otal, All Modifications		649.939		548.998		165.139		104.339		0.000		104.33

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000

Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION Type Modification: UNCLASSIFIED

Related RDT&E PEs:

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	Prior	FY	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 2013 Total		
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M )
Procurement Cost (Procurement + Support)		649.939		548.998		165.139		104.339		0.000		104.339
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		0.000
Total Cost (Procurement + Support + Installation)		649.939		548.998		165.139		104.339		0.000		104.339

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal
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)
Procurement												
SHADOW TACTICAL COMMON DATA LINK (TCDL) (1)												
A Kits												
Recurring												
TCDL System Retrofit Kits	6	60.127	6	62.362	6	63.634	8	42.082	0	0.000	100	946.51
UGCS Only System Retrofit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	46.37
Launchers	6	2.529	6	2.572	6	2.615	8	3.547	0	0.000	75	26.19
GFE	0	2.301	0	2.340	0	2.380	0	3.227	0	0.000	0	44.313
Training Equipment	0	11.632	0	8.872	0	4.458	0	22.670	0	0.000	0	84.54
Training	0	16.565	0	16.846	0	4.997	0	4.356	0	0.000	0	76.722
Program Management	0	8.306	0	9.092	0	8.483	0	8.295	0	0.000	0	64.804
Engineeering	0	3.300	0	3.612	0	3.370	0	3.296	0	0.000	0	25.750
Logistics	0	6.701	0	7.334	0	6.843	0	6.692	0	0.000	0	52.289
Subtotal Recurring		111.461		113.030		96.780		94.165		0.000		1,367.50
Total, SHADOW TACTICAL COMMON DATA LINK (TCDL)	12	111.461	12	113.030	12	96.780	16	94.165	0	0.000	191	1,367.50
SHADOW SYSTEM MODIFICATIONS (2)												
A Kits												
Recurring												
Attrition Air Vehicles	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	68	71.53

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000

Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION,SHAWDOW PAYLOAD UPGRADE/MODIFICATION,ENCRYPTION OSRVT MODIFICATION

Type Modification: UNCLASSIFIED

Related RDT&E PEs:

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Mission Computer	80	6.507	80	6.618	80	6.730	80	6.845	0	0.000	364	30.219
High Reliability Engine	0	0.000	70	3.464	120	6.039	180	9.212	0	0.000	370	18.715
Tripe Redundant Avionics	0	0.000	0	0.000	28	3.271	28	3.326	0	0.000	56	6.597
Program Management	0	0.589	0	1.002	0	1.782	0	2.144	0	0.000	0	10.344
Engineering	0	0.234	0	0.398	0	0.708	0	0.852	0	0.000	0	4.110
Logistics	0	0.475	0	0.808	0	1.437	0	1.730	0	0.000	0	8.344
Subtotal Recurring		7.805		12.290		19.967		24.109		0.000		149.864
Total, SHADOW SYSTEM MODIFICATIONS	80	7.805	150	12.290	228	19.967	288	24.109	0	0.000	858	149.864
SHADOW PAYLOAD UPGRADES/MODIFICATIONS (3)												
A Kits												
Recurring												
Laser Designator	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	106	118.100
SIGINT	16	5.057	0	0.000	0	0.000	0	0.000	0	0.000	16	5.057
EO/IR/LD Upgrade	6	6.322	0	0.000	0	0.000	0	0.000	0	0.000	6	6.322
Training	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.700
Program Management	0	1.029	0	0.000	0	0.000	0	0.000	0	0.000	0	3.768
Engineering	0	0.409	0	0.000	0	0.000	0	0.000	0	0.000	0	1.509
Logistics	0	0.830	0	0.000	0	0.000	0	0.000	0	0.000	0	2.930
Subtotal Recurring		13.647		0.000		0.000		0.000		0.000		143.386
Total, SHADOW PAYLOAD UPGRADES/MODIFICATIONS	22	13.647	0	0.000	0	0.000	0	0.000	0	0.000	128	143.386
ENCRYPTION AND OSRVT MODIFICATIONS (4)												
A Kits												
Recurring												
OSRVT Retrofit Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,937	212.900
OSRVT BI Directional Modification Kit	400	10.400	650	16.200	650	16.500	675	16.800	0	0.000	3,175	80.300
Army TIES Retrofit Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	470	56.900

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Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	y: P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000
Models of Systems Affected: TCDL_SHADOW	Type Modification: UNCLASSIFIED	Related RDT&E PEs:

SYSTEM MODIFICATION.SHAWDOW PAYLOAD UPGRADE/MODIFICATION.ENCRYPTION OSRVT MODIFICATION

	FY	2014	FY:	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
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	Qty (Each)	Total Cost (\$ M)
Program Management	0	0.600	0	0.900	0	0.900	0	0.900	0	0.000	0	12.239
Engineering	0	0.500	0	0.700	0	0.700	0	0.700	0	0.000	0	3.600
Logistics	0	0.377	0	0.464	0	0.466	0	0.546	0	0.000	0	2.631
Subtotal Recurring		11.877		18.264		18.566		18.946		0.000		368.570
Total, ENCRYPTION AND OSRVT MODIFICATIONS	400	11.877	650	18.264	650	18.566	675	18.946	0	0.000	6,582	368.570
Total, All Modifications		144.790		143.584		135.313		137.220		0.000		2,029.322
Procurement Cost (Procurement + Support)		144.790		143.584		135.313		137.220		0.000		2,029.322
Total Installation Cost		0.000		0.000		0.000		0.000		0.000		0.000
Total Cost (Procurement + Support + Installation)		144.790		143.584		135.313		137.220		0.000		2,029.322

#### Remarks:

JUSTIFICATION: FY2013 Base funding of \$88.055 million procures 7 Shadow TCDL retrofit kits, Spares, GFE, TCDL New Equipment Training, Trainers, and Program Management Support. The unit cost of the FY 2013 TCDL kits is significantly

less than the FY 2012 unit cost due to some equipment being procured with FY2012 OCO funds. Specially, 28 new air vehicles procured as War replacement aircraft using FY 2012 OCO. Additionally, it will be further offset by utilizing 44 UGCS and 7 Portable Ground Control Stations previously procured.

JUSTIFICATION: FY2013 Base funding of \$11.678 million procures 400 OSRVT Bi-directional communications modification kits that enable Level of Interoperability 3 (bi-directional) operations, allowing control of the UAS payload for optimum situational awareness.

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<sup>(1)</sup> 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.

<sup>(2)</sup> Air Vehicle Modifications include a new mission computer, a larger engine, and triple redundant avionics. The larger engine improves reliability of the current engine and increases power. Ground equipment consists of an improved launcher needed to accommadate fuselage upgrades. FY2012 includes sixty eight war replacements aircraft. Installation of the mission computer is performed at the unit level. JUSTIFICATION: FY2013 Base funding of \$4,606 million supports procurement of 44 new mission computers. Program Management, Engineering and Logistics support.

<sup>(3)</sup> The Shadow payload provides a substantial part of its capability. The initial payload was an Electro Optical/Infrared (EO/IR) payload (POP 300), which is currently being retrofit to add Laser Designator (LD) capability (POP 300LD). Development efforts will also bring upgraded capabilities to include: signals intelligence (SIGINT); and upgraded EO/IR/LD payloads. These capabilities will be modular designs. capable of installation at unit level. Procurement and fielding of these payloads will be through an incremental acquisition approach. JUSTIFICATION: No FY2013 Base funding will be used in support of the payloads program.

<sup>(4)</sup> The current One System Remote Video Terminal (OSRVT) fielded in Shadow systems requires an upgrade to an Increment II OSRVT. The increment II OSRVT provides Soldiers enhanced situational awareness with Full Motion Time Video and Telemetry Data from multiple manned and unmanned platforms. The OSRVT Increment II consists of a receiver, toughbook computer, antenna, UHF Modem, Type 1 encryption, and an optional extended range antenna. Software supports decoding Telemetry Data from multiple UASs, links data onto Falcon View maps, provides for EO/IR payload control, and supports Off Target Calculations.

			0.1102	ASSIFIED			
Exhibit P-3A, Individ	dual Modification: P	B 2013 Army				Date: February 2012	
<b>Appropriation / Bud</b> 2031A / BA 2 / BSA /		t Sub Activity	<b>P-1 Line Item No</b> A00018 - RQ-7 U			Modification Nomer (Modification Title, M RQ-7 UAV MODS - 0	odification Numbe
Models of Systems SYSTEM MODIFICA UPGRADE/MODIFIC MODIFICATION	TION,SHAWDOW PA	AYLOAD	Type Modification: UNC	CLASSIFIED	Related R	DT&E PEs:	
Manufacturer Informatio	n: SHADOW TACTICAL C	OMMON DATA I	INK (TCDL)				
Manufacturer Name: AAI				Manufacturer Location: Hu	nt Valley, MD		
Administrative Leadtime (i	n Months): 7			Production Leadtime (in M	onths): 15		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	May 2012	Sep 201	2 May 2013				
Delivery Dates	Aug 2013	Dec 201	3 Aug 2014				
Manufacturer Informatio	n: SHADOW SYSTEM MC	DIFICATIONS	,			,	
Manufacturer Name: AAI				Manufacturer Location: Hu	nt Valley, MD		
Administrative Leadtime (i	n Months):			Production Leadtime (in M	onths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: SHADOW PAYLOAD U	PGRADES/MOD	FICATIONS				
Manufacturer Name: AAI				Manufacturer Location: Hu	nt Valley, MD		
Administrative Leadtime (i	n Months): 6			Production Leadtime (in M	onths): 12		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	May 2011	Mar 201	2 Mar 2013				
Delivery Dates	May 2012	Mar 201	3 Mar 2014				
Manufacturer Informatio	n: ENCRYPTION AND OS	RVT MODIFICAT	IONS				
Manufacturer Name: AAI				Manufacturer Location: Hu	nt Valley, MD		
Administrative Leadtime (i	n Months): 4			Production Leadtime (in M	onths): 12		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Mar 2011	Feb 201	2 Feb 2013				
Delivery Dates	Mar 2012	Feb 201	3 Feb 2014				

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Army

Exhibit P-3A, Individual Modification: PB 2013 Army			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS		Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000
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Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION

Type Modification: UNCLASSIFIED

Related RDT&E PEs:

Installation: SHADOW TACTICAL COMMON DATA LINK	(TCDL) Me	thod of Impl	ementation:	FFP Contra	ct		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 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 )	<b>Qty</b> (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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY:	2014	FY 2	2015	FY 2	016	FY 2	2017	To Co	mplete	To	tal
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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI A00018 - RQ-7 UAV MODS Army UNCLASSIFIED
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P-1 Line #32

Exh	ibit P	-3A, I	ndivi	dua	al Modif	ficati	ion: P	B 20	13 Arr	ny													I	Date:	Feb	ruary	2012					
			/ <b>Bud</b> BSA ^		t Activi	ty / E	Budge	t Su	ıb Acti	vity:					<b>Nome</b> UAV									Mod	ificati	on Ti	omen tle, Mo DS - 00	difica		Numi	ber <b>)</b> :	
SYS	TEM	MOD E/MO	IFICA DIFIC	TIC	fected: ON,SHA ΓΙΟΝ,ΕΝ	WDO	OW PA	4YL0	DAC	Т	ype N	Modifi	catio	on: Ul	NCLA	SSIFI	ED				Re	lated	RDT8	E PE	s:							
Insta	llation	SHAD	OW TA	ACT	ΓICAL CO	IOMM	N DATA	LINK	(TCDL	) <b>M</b>	lethod	of Impl	emen	itation	: FFP C	Contrac	ct				Installation Name:											
Insta	llation	Sched	ule																													
			FY 2	_				2012			FY 2				FY 2					2015	_		FY 20				FY 20				l	
1.	APY	1	2	3	_	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	<b>2</b>	3	4	TC	Tot	
In Out	-	0			0 0	_	0 0		0 0		0	0	0	_	-	0	0	0		-	0	0		0	0	0	-	0	0	0	_	
Out		0	U		0 0		, 0	<u> </u>	0 0	0	U	U	U	0	0	0	0			0	U	U	0	0	0		0	0	0			
Insta	llation	SHAD	OW S	YST	TEM MOD	IFICA	TIONS			M	lethod	of Impl	emen	itation	: FFP C	Contrac	ct				Inst	allatio	n Name	:								
										Pric	r Year	s		FY	2011			FY 20	012		FY	2013	Base		FY 2	013 O	co	F	Y 201	3 Tota	al	
Insta	llation	Cost								<b>Qty</b> (Each)		al Cost		Qty ach)	Total (		Qty (Eac		Total Cost (\$ M )		<b>Qty</b> (Each)		Total Cost (\$ M)		<b>Qty</b> (Each)		Total Cost (\$ M )		t <b>y</b> ch)		I Cost	
All Pr	ior Yea	rs									0	0.000		0		0.000	0		-	0.000		0	0.00	00		0	0.000		0		0.000	
FY 20	)11										0	0.000		0		0.000		0	0.000			0	0.00	00		0	0.000		0		0.000	
FY 20	)12										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
FY 20	)13										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
FY 20	)14										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
FY 20											0	0.000		0		0.000		0		0.000		0	0.00			0	0.000		0		0.000	
FY 20											0	0.000		0		0.000		0		0.000		0	0.00	-		0	0.000		0		0.000	
FY 20											0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
	omplete	)								-	0	0.000		- 0		0.000		- 0		0.000		- 0	0.00	10	-	0	0.000		- 0		0.000	
Total											U	0.000		- 0		0.000		U		0.000		0	0.00	00		0	0.000		- 0		0.000	
										F۱	2014			FY	2015			FY 20	016			FY 20°	17		То С	omple	ete		То	tal		
Insta	llation	Cost								Qty (Each)		al Cost		Qty (ach)	Total (\$ A		Qty (Eac		Total C		Qty (Each)		Total Cost		<b>Qty</b> (Each)		tal Cost	Qt (Ea			l Cost	
All Pr	ior Yea	rs								(2001)	0	0.000	,-	0	_	0.000	(200	0		0.000	(2001.)	0	0.00			0	0.000	,	0	_	0.000	
FY 20	)11										0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
FY 20											0	0.000		0		0.000		0		0.000		0	0.00	00		0	0.000		0		0.000	
	)13										0	0.000		0	1	0.000		0		0.000		0	0.00	10		0	0.000		0		0.000	

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P-1 Line #32

Exhibit P-3A, Individual Modification: PB 2013 Army	,				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2031A / BA 2 / BSA 10	ty:	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS			Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000
Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION,SHAWDOW PAYLOAD UPGRADE/MODIFICATION,ENCRYPTION OSRVT MODIFICATION	Туре	Modification: UNCLASSIFIED	Re	elated RDT	&E PEs:

Installation: SHADOW SYSTEM MODIFICATIONS	Me	thod of Impl	ementation	: FFP Contra	ct		Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	То Со	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)										
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

#### Installation Schedule FY 2013 FY 2014 FY 2015 FY 2016 FY 2011 FY 2012 FY 2017 TC APY Tot In Out

Installation: SHADOW PAYLOAD UPGRA	DES/MODIFICATIONS Me	thod of Impl	ementation:	FFP Contrac	:t		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-

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LI A00018 - RQ-7 UAV MODS

### LINCL ASSIFIED

														OIT	JL		ILD														
Exhi	bit P	-3A, I	ndivi	dual	Modi	ficatio	on: P	B 201	3 Arr	ny														Date	: Feb	ruary	2012	2			
		ation A 2 /			Activi	ity / B	udge	t Sub	Acti	vity:						menclat AV MOE								(Mod	lificat	ion T	<b>lome</b> itle, M DS - 0	1odif	icatior	Num	ber <b>)</b> :
SYS UPG	TEM SRAD	MÕD	IFICA DIFIC	NOITA	N,SHA	WDC	W PA	ADOW AYLOA N OSF	۸D	T	/pe N	Modifi	icatio	on: Ul	NC	LASSIF	IED				Rel	ated	RDT	&E PI	Es:						
Insta	lation	SHAD	OW P	AYLO	AD UP	GRADE	ES/MOI	DIFICA	TIONS	6 M	ethod	of Imp	leme	ntation	: FF	P Contra	ct				Insta	llatio	n Nam	e:							
										Prio	r Year	s		FY	201	1		FY 2	2012		FY 2	2013 E	Base		FY 2	013 O	СО		FY 20	13 Tot	al
Insta	lation	Cost								Qty (Each)		al Cost		Qty Each)	Т	Total Cost	Qt (Eac		Total		Qty (Each)	1	Total Cos	t	Qty (Each)	To	otal Cost		Qty (Each)		I Cost
Total										. ,	0	0.000		0		0.000	,	0		0.000		0	0.0	000	, ,	0	0.00	00		0	0.000
										FV	2014			FY	201	5		FY 2	2016			Y 201	7		To (	Compl	oto		-	otal	
Insta	lation	Cost								Qty (Each)	Tot	al Cost		Qty Each)		Total Cost	Qt (Eac	y	Total	Cost	Qty (Each)		Total Cos	t	Qty (Each)	<u> </u>	otal Cost	:	Qty (Each)	Tota	I Cost
	or Yea									· /	0	0.000	+	0		0.000	(Lat	0	(\$	0.000	(Lacii)	0	0.0	000	(Lacii)	0	0.00	00	· /	0	0.000
FY 20	)11										0	0.000		0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
FY 20	12										0	0.000		0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
FY 20	13										0	0.000	)	0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
FY 20	14										0	0.000	)	0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
FY 20	15										0	0.000	)	0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
FY 20	16									-		-		-		-		-		-		-			-		-		-		-
FY 20	17									-		-		-		-		-		-		-		-	-		-		-		-
To Co	mplete	;								-		-		-		-		-		-		-					-		-		-
Total		<u> </u>									0	0.000	0	0		0.000		0		0.000		0	0.0	000		0	0.00	00		0	0.000
Insta	lation	Sched		2011	_		EV	2012			EV	2013			_	Y 2014			EV	2015		-	FY 2	016			EV	2017		Τ	1
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2		4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	-	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0	0	C	)	0 0	0	0		0	0	0	0		0 (	0	0
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0		0 0	0	C	)	0 0	0	0	0	0	0	0	0		0 (	0	0
Insta	lation	ENCF	RYPTIC	ON AN	D OSR	VT MO	DIFICA	ATIONS	;	м	ethod	of Imp	lemei	ntation	: FF	P Contra	ct				Insta	ıllatio	n Nam	e:							
											r Year	<u> </u>	T	FY				FY 2	2012		FY 2	2013 E	Base		FY 2	013 O	СО		FY 20	13 Tot	al
Insta	lation	Cost								Qty (Each)		al Cost		<b>Qty</b> Each)	Т	Total Cost	Qt (Eac		Total	Cost	Qty (Each)	1	Total Cos	t	Qty (Each)	To	otal Cost		Qty (Each)		I Cost
All Pr	or Yea	rs									0	0.000	+	0		0.000		0		0.000	. ,	0	0.0	000		0	0.00	00		0	0.000
11 00	0019	- RQ	7114	\/ N//	חפ									UN	CI	ASSIF	IFD														
-	0010	- 110	, 0,	V IVI										J. 11																	202

LI A00018 - RQ-7 UAV MODS Army

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P-1 Line #32

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 2 / BSA 10	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS	Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000

Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION

Army

Type Modification: UNCLASSIFIED

Related RDT&E PEs:

Installation: ENCRYPTION AND OSRVT MODIFICATIONS	Ме	thod of Impl	ementation	FFP Contra	ct		Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)						
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	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
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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P-1 Line #32

Exhibit P-3A, Individual Modification: PB 2013 Army	/			Date: February 2012
Appropriation / Budget Activity / Budget Sub Activ 2031A / BA 2 / BSA 10	ity:	P-1 Line Item Nomenclature: A00018 - RQ-7 UAV MODS		Modification Nomenclature (Modification Title, Modification Number): RQ-7 UAV MODS - 0000
Models of Systems Affected: TCDL, SHADOW SYSTEM MODIFICATION,SHAWDOW PAYLOAD UPGRADE/MODIFICATION,ENCRYPTION OSRVT MODIFICATION	Туре	Modification: UNCLASSIFIED	Related RDT	&E PEs:

Installation: ENCRYPTION AND OSRVT MODIFICATIONS

Method of Implementation: FFP Contract

Installation Name:

#### Installation Schedule

			FY	2011			FY 2	012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	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	-	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	0	0
Out	-	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	0	0

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				UNCLA	SSIFIED							
Exhibit P-40, Budget Item Justification \$	Sheet: PB	2013 Army	'						Date: Feb	ruary 2012	2	
<b>Appropriation / Budget Activity / Budge</b> 2031A : Aircraft Procurement, Army / BA 3 Spares And Repair Parts			Parts / BS	A 10 :		<b>tem Nome</b> Spare Part						
ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,556.135	10.398	-	-	-	-	-	-	-	-	0.000	1,566.533
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,556.135	10.398	-	-	-	-	-	-	-	-	0.000	1,566.533
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,556.135	10.398	-	-	-	-	-	-	-	-	0.000	1,566.533
(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)		· · · · · · · · · · · · · · · · · · ·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
All COMPO 1 Active  Justification:												

LI AA0950 - Spare Parts (AIR) Army UNCLASSIFIED
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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: 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: 0604270A

1												
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	633.101	24.338	35.993	34.037	-	34.037	47.610	54.504	52.789	53.762	607.700	1,543.834
Less PY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	0.000	11.565
Net Procurement (P1) (\$ in Millions)	621.536	24.338	35.993	34.037	-	34.037	47.610	54.504	52.789	53.762	607.700	1,532.269
Plus CY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	0.000	11.565
Total Obligation Authority (\$ in Millions)	633.101	24.338	35.993	34.037	-	34.037	47.610	54.504	52.789	53.762	607.700	1,543.834
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Gross/Weapon System Unit Cost (\$ in Thousands)

### **Description:**

The Aircraft Survivability Equipment (ASE) budget line includes ASE Laser Countermeasures (AZ3508), ASE Trainers (AZ3506), and ASE Radio Frequency Countermeasures (AZ3511).

Item Sche	dule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	<b>2013 To</b>	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost												
*** (See enclosed P-40A)	P40A				-			2.121			3.837			1.398			-			1.398
AZ3508 - ASE Laser CM	P5, P5A, P21		-	-	-	-	-	22.217	-	-	32.156	-	-	32.639	-	-	-	-	-	32.639
Total Gross/Weapon System Cost					633.101			24.338			35.993			34.037			-			34.037

\*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.

#### Justification:

All COMPO 1 Active

**UNCLASSIFIED** Page 1 of 8

Exhibit P-40A, Budget Item Justification For Aggregated Ite	ems: PB 2013 Army	Date: February 2012
		Aggregated Item Name:
2031A / BA 4 / BSA 10	AZ3504 - Aircraft Survivability Equipment	Various

		_ A	All Prior Years	5		FY 2011			FY 2012		l I	FY 2013 Base	)	F	Y 2013 OCO		!	FY 2013 Tota	I
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)
(Uncategorized)																			
AZ3506 - ASE Trainers		-	-	-	-	-	2.121	-	-	3.837	-	-	1.398	-	-	-	-	-	1.398
Uncategorized Subtotal				0.000			2.121			3.837			1.398			0.000			1.398
Total				0.000			2.121			3.837			1.398			0.000			1.398

Remarks:

UNCLASSIFIED

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Exhibit P-5, Cost	t Ar	alysis:	PB 2013	Army										I	Date: Fe	bruary 2	012		
Appropriation / E 2031A / BA 4 / BS	Bud SA 1	get Act	ivity / Bu	dget Sı	ub Activ	ity:			<b>Nomenc</b> aft Surviv		quipme	nt			Vame, D	menclat OODIC): - ASE La	•	n Numbe	r, Item
		Resou	urce Sun	nmary			<u> </u>	Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	3 OCO	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	n Co	st (\$ in Mi	illions)						-		22.217		32.156		32.639		-		32.639
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)			,						-		22.217		32.156		32.639		-		32.639
Plus CY Advance Prod			Millions)						-		_		_		_		_		_
Total Obligation Autho		• • • • • • • • • • • • • • • • • • • •							-		22.217		32.156		32.639		_		32.639
Total Obligation / tatle	, ity	(ψ πτινιπιο	-	e following	Pasourca Si	ummany row	s are for inf	ormational r	ournoses onl	v The corre		udget reques		imented else					02.000
Initial Spares (\$ in Mill	ions	)	(1110	- ronowing		aiaiy 10W		o.madonal p	-	y. 1110 COITE	-	augui reques	_	anonieu else	-		-		_
Gross/Weapon System			in Thousan	ds)					_		_		_		_		_		
Gross/vvcapori Gyster			Prior Years			FY 2011			FY 2012		E,	Y 2013 Bas		F	Y 2013 OC	20	E	 / 2013 Tot	al
Cost Elements		•	Tior rears	Total		112011	Total		1 1 2012	Total	•	7 2010 Das	Total	•	2013 00	Total	•	2013 100	Total
(† indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)	Unit Cost	Quantity (Each)	Cost (\$ M)
Flyaway Cost												'		1					
Recurring Cost																			
Recurring Production		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.000
Manufacturing		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.000
Non Recurring Production A-Kit		-	-	-	-	-	0.000	-	-	6.000	-	-	0.000	-	-	-	-	-	0.000
A-Kit Procurement		-	-	-	23.000	75	1.725	25.000	44	1.100	29.000	52	1.508	-	-	0.000	29.000	52	1.508
A-Kit Installation		-	-	-	-	-	2.500	-	-	2.729	-	-	3.711	-	-	0.000	-	-	3.711
† B-Kit Procurement (includes install)		-	-	-	117.000	124	14.520	135.000	126	17.010	145.000	142	20.590	-	-	0.000	145.000	142	20.590
Other Recurring Production		-	-	-	-	-	0.064	-	-	0.021	-	-	0.029	-	-	0.000	-	-	0.029
Prime Contractor Program Mgt		-	-	-	-	-	0.894	-	-	1.335	-	-	1.860	-	-	0.000	-	-	1.860
Systems Engineering/ Program Mgt		-	-	-	-	-	2.400	-	-	2.138	-	-	2.310	-	-	0.000	-	-	2.310
Systems Test and Evaluation		-	-	-	-	-	0.114	-	-	1.300	-	-	2.108	-	-	0.000	-	-	2.108
Training		-	-	-	-	-	0.000	-	-	0.075	-	-	0.075	-	-	0.000	-	-	0.075
Data		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Support Equipment		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.000
Fielding		-	-	-	-	-	0.000	-	-	0.448	-	-	0.448		-	0.000	-	-	0.448
Modification Efforts		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.000
Total Recurring Cost				0.000			22.217			32.156			32.639			0.000			32.639
Total Flyaway Cost				0.000			22.217			32.156			32.639			0.000			32.639

LI AZ3504 - Aircraft Survivability Equipment Army

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Date: February 2012 Exhibit P-5, Cost Analysis: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature (Item Number, Item 2031A / BA 4 / BSA 10 AZ3504 - Aircraft Survivability Equipment Name, DODIC): AZ3508 - ASE Laser CM

		F	Prior Years	s		FY 2011			FY 2012		F	Y 2013 Bas	se	F	/ 2013 OCC	)	FY	Y 2013 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)
Gross Weapon System Cost				-			22.217			32.156			32.639			-			32.639

Remarks:

rtomarto.						
Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	22.217	32.156	32.639	-	32.639

**UNCLASSIFIED** LI AZ3504 - Aircraft Survivability Equipment

Exhibit P-5A, Budget Procurement History and Planning:	PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 4 / BSA 10	AZ3504 - Aircraft Survivability Equipment	AZ3508 - ASE Laser CM

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†B-Kit Procurement (includes install)		2011	Goodrich / Danbury, CT	C / FFP	CECOM, APG	Jan 2011	Oct 2011	124	117.000			
†B-Kit Procurement (includes install)		2012	Goodrich / Danbury, CT	C / FFP	CECOM, APG	Jan 2012	Oct 2012	126	135.000			
†B-Kit Procurement (includes install)		2013	Goodrich / Danbury, CT	SS / FFP	AMCOM Contracting Command, RSA	Mar 2013	Oct 2013	142	145.000			

#### Remarks:

The increase in unit price for the B-kits in FY12 reflects the beginning of a procurement mix of both 4 and 6 sensor B-Kits for installation on different aircraft platforms.

Exhi	ibit	P-21	, Budge	t Pro	ducti	ion S	ched	ule: P	B 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / Bud 4 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:			<b>-ine l</b> 504 - <i>i</i>				ture: oility E	quipr	ment							n <b>encla</b> ASE L					
			Cost Eleme								F	iscal Ye	ear 201	2									F	iscal Ye	ear 201	3					
						BAL								Ca	lendar	Year 20	)12								Calen	dar Yea	r 2013				
O MI		FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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 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	N J	J U L	A U G	S E P	B A L
		uremer	nt (includes																												
1		2011	ARMY	124	0	124	10	10	10	10	10	10	10	10	10	10	10	14													
1		2012	ARMY	126	0	126	-	-	-	Α -	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	16	
1		2013	ARMY	142	0	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	- 1	-	142
	·						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 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	J U L	A U G	S E P	

Ex	hibit	P-21	l, Budg	et Pro	ducti	ion S	ched	ule: P	B 20	13 Arı	my													Date	: Feb	ruary	2012	<u>'</u>			
			<b>on / Bu</b> 4 / BSA		ctivi	ty / B	udge	t Sub	Acti	vity:						<b>nclat</b> rvivab		quipr	nent								<b>ature:</b> Laser				
			Cost Elem								F	iscal Ye	ar 201	4									ı	iscal Y	ear 201	5					
						BAL								Ca	lendar	Year 20	14								Calen	dar Yea	ır 2015				
0 0	MFR Ref#	FY	SERVICE <sup>2</sup>	PROC	ACCEP PRIOR TO 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	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 U	J U	A U G	S E P	E A
3-ŀ	Kit Proc	uremer	nt (includes	install)																				-							
T	1	2011	ARMY	124	124	0																									
	1	2012	ARMY	126	126	0																									
	1	2013	ARMY	142	0	142	10	10	10	10	10	10	10	10	10	10	20	21	-	-	-	-	-	-	-	-	-	-	-	-	
				. ,		,	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	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	J J	A U G	S E P	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 4 / BSA 10	AZ3504 - Aircraft Survivability Equipment	AZ3508 - ASE Laser CM

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LE	EADTIME (Months	s)		
MF	र					Init	tial			Reo	rder	
Re					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	Goodrich - Danbury, CT	60	120	240	0	1	9	10	0	1	9	10

#### Remarks:

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AZ3507 - Survivability CM

10: Ground Support Avionics

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

ID Code (A=Service Ready, b=Not Service Ready):		Fiogram	ii Eleilleills i	or code b ite	:III5.		Oui	iei Keiateu P	rogram Elem	enis.		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,538.375	345.783	-	-	-	-	-	-	-	-	0.000	2,884.158
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,538.375	345.783	-	-	-	-	-	-	-	-	0.000	2,884.158
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,538.375	345.783	-	-	-	-	-	-	-	-	0.000	2,884.158
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **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 core element of the SIIRCM concept is the Advanced Threat Infrared Countermeasure/Common Missile Warning System (ATIRCM/CMWS) Program. The ATIRCM/CMWS is an integrated ultraviolet (UV) missile warning system, an IR Laser Jamming and Improved Countermeasure Dispenser (ICMD) serving as a subsystem to the host aircraft.

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 April 15, 2009. USD (AT&L) designated the ATIRCM/CMWS program as an Acquisition Category (ACAT) ID special interest program, and directed the establishment of the CMWS, ATIRCM QRC and Common Infrared Countermeasure (CIRCM) subprograms. On September 3, 2010, the Principal Deputy to the USD (AT&L), Acting DAE signed an ADM approving the reinstatement of Milestone C for CMWS. Under this ADM, ATIRCM QRC remained in Milestone B. The ADM redesignated the ATIRCM QRC and CMWS subprograms as ACAT IC. The Principal Deputy to the USD(AT&L) also approved new baselines for each subprogram. Milestone C was reinstated for ATIRCM QRC per a memo signed by the AAE on August 13, 2011 increasing the Army Procurement Objective to 120 B-kits.

The CMWS subprogram is a UV missile warning system that cues both flare and laser countermeasures to defeat incoming IR missiles. The B-kit consists of the components which perform the missile detection and identification, 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 warning signal to on-board avionics (to alert crewmembers) and to the ATIRCM QRC Jam Head Control Unit. Tier 1 threat missiles detected and tracked by the CMWS are subsequently defeated by a combination of missile seeker countermeasures, including decoy flares and ATIRCM IR Laser Jamming (on CH-47 platforms only). The CMWS Generation 3 (Gen 3) Electronic Control Unit (ECU) will meet Tier 1 requirements while retaining a low false alarm rate. The Gen 3 ECU is required to obtain a Full Materiel Release 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.

UNCLASSIFIED LI AZ3507 - Survivability CM 395 Page 1 of 8 P-1 Line #35 Army

								UNC	CLASS	IFIED	)									
Exhibit P-40, Bud	dget Item Ju	stifi	cation S	Sheet: F	PB 2013	3 Army									Date	: Febru	ary 201	2		
<b>Appropriation / B</b> 2031A : Aircraft Pr 10 : Ground Suppo	rocurement,						and Fad	cilities / I				omencla ability Cl					-			
ID Code (A=Service Ready	y, B=Not Service Rea	ady) :			l l	Program	Element	s for Cod	e B Items	:			Oth	er Relate	d Prograr	n Eleme	nts:			
Secoi	ndary Distrib	ution	ì		F	Y 2011			FY 201	2		FY 20 Bas				2013 CO			Y 2013 Total	
Army Active	Quantity						-				-			-			-			-
	Total Obligation Authority 345.783										-			-			-			-
Item Sche	Item Schedule Prior Years FY 2									FY 2012	-	FY	2013 B	ase	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (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
AZ3507 - Survivability CM	P5, P5A, P21		-	-	-	-	-	345.783	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon					2,538.375			345.783			-			-			-			-
*Item Nomenclature repre					540					<i>c</i>	<u> </u>	1	c		<u> </u>			D10		

LI AZ3507 - Survivability CM Army

Exhibit P-5, Cost	t Ar	nalysis:	PB 2013	Army											Date: Fe	ebruary 2	2012		
Appropriation / E 2031A / BA 4 / BS			ivity / Bu	udget S	ub Activ	ity:	1	ne Item 07 - Surv							Name, D	ODIC):	ure (Item		r, Item
		Resou	urce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 201	3 ОСО	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	n Co	ost (\$ in Mi	illions)						-	3	345.783		-		-		-		-
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	n Millions)							-	3	345.783		-		-		-		-
Plus CY Advance Pro			Millions)						-		-		-		-		-		_
Total Obligation Autho	ritv	(\$ in Millio	ns)						-	3	345.783		-		-		-		_
	-,	(,	-	ne followina	Resource S	ummarv row	s are for in	formational i	purposes on	lv. The corre	sponding b	udget reques	sts are doci	umented els	ewhere.)				
Initial Spares (\$ in Mill	ions	)	(						-	,	-		-		-		-		-
Gross/Weapon Syster		<u> </u>	in Thousar	nds)					-		-		-		-		-		_
		· ·	Prior Years			FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 O	0	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost	+	(ψ / ( )	(Edon)	(\$107)	(\$11)	(Lucii)	(\$ 111 )	(ψ / ( )	(Lucii)	(\$1017)	(\$7.7)	(Eddin)	(\$ 101 )	(ψ / ( )	(Lucii)	(\$1017)	(\$717)	(Lucii)	(\$ 111 )
Recurring Cost																			
† CMWS A-kit Procurement		-	-	-	81.000	126	10.206	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
CMWS A-kit Installation		-	-	-	-	-	19.427	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
CMWS B-kit Production		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Government Furnished Equipment (GFE)		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Recurring Production (Software)		-	-	-	-	-	27.713	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Systems Engineering/ Program Management		-	-	-	-	-	28.655	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Systems Test and Evaluation		-	-	-	-	-	16.714	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Training		-	-	-	-	-	3.953	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Data		-	-	-	-	-	2.111		-	0.000	-	-	0.000		-	-	-	-	0.000
Support Equipment	1_	-	-	-	-	-	0.000		-	0.000	-	-	0.000		-	-	-	-	0.000
Fielding	-	-	-	-	-	-	0.000	+	-	0.000	-	-	0.000		-	-	-	-	0.000
† CMWS Gen 3 ECU Hardware		-	-	-	119.000	366	43.554	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Modifications		-	-	-	-	-	8.348	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Procurement CMWS		-	-	-	-	-	5.541	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

LI AZ3507 - Survivability CM Army

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P-1 Line #35

Exhibit P-5, Cost Analysis: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

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

2031A / BA 4 / BSA 10

AZ3507 - Survivability CM

AZ3507 - Survivability CM

		I	Prior Years	s		FY 2011			FY 2012		F'	Y 2013 Bas	se	F'	Y 2013 OC	)	F	Y 2013 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)
IR Suppressor Kits		-	-	-	-	-	8.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
HF QRC		-	-	-	-	-	35.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Recurring Production		-	-	-	-	-	36.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Procurement		-	-	-	-	-	7.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Nonrecurring Production		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
ATIRCM QRC A-kit / B-kit Procurement		-	-	-	-	-	76.500	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
ATIRCM QRC A-kit Installation		-	-	-	-	-	10.400	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
System Engineering/ Program Management		-	-	-	-	-	5.661	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
System Test and Evaluation		-	-	-	-	-	1.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total Recurring Cost				0.000			345.783			0.000			0.000			0.000			0.000
Total Flyaway Cost				0.000			345.783			0.000			0.000			0.000			0.000
Gross Weapon System Cost				-			345.783			-			-			-			-

#### Remarks:

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	345.783	-	-	-	-

LI AZ3507 - Survivability CM Army

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Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 4 / BSA 10	P-1 Line Item Nomenclature: AZ3507 - Survivability CM	Item Nomenclature: AZ3507 - Survivability CM

Cost Elements († indicates the presence of a P-21)	0 0 0	FY	Contractor and Location	Contract Method and Type	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 Procurement		2011	Various / Various	SS/FFP	CECOM, APG	Jan 2011	Jun 2011	126	81.000	N		
†CMWS Gen 3 ECU Hardware		2011	BAE Systems / Nashua, NH	SS/FFP	CECOM, APG	Mar 2011	Nov 2011	366	119.000	N		

Remarks:

LI AZ3507 - Survivability CM Army

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E	chibit	P-21	, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / <b>Buo</b> 4 / BSA		Activi	ty / B	udge	t Sub	) Acti	ivity:				•••••	<b>Nome</b> vabilit										<b>Nom</b> 507 - S		ture: /ability				
			Cost Eleme (Units in Ea									Fiscal Y	ear 201	1									F	iscal Ye	ear 2012	2					
					ACCEP	BAL		Calendar Year 2011										Calend	dar Yea	r 2012											
0 0 0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC	PRIOR	_	O C T	N O V	D E C	J A N	J F M A M J J A S A E A P A U U U E								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
CI	MWS A	kit Proc	urement																												
	1	2011	ARMY	126	0	126	-	-	-	Α -	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	12	4				
CI	MWS G	en 3 EC	U Hardwar	е																											
	2	2011	ARMY	366	0	366	-	-	-	-	-	Α -	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	20	20	20	146
							O C T	N O V	D J F M A M J J A D E A E A P A U U U									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 T	A U G	S E P	

LI AZ3507 - Survivability CM Army

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E	chibit	P-21	, Budge	et Pro	ducti	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012	)			
			on / Bud 4 / BSA		Activi	ty / B	udge	t Sub	Acti	vity:			_		_	encla ty CM										<b>encla</b> Survi			1		
			Cost Elem (Units in Ea								F	iscal Y	ear 201	3										Fiscal Y	ear 201	4					
		BAL Calendar Year 2013 ACCEP DUE												013								Calen	dar Yea	r 2014							
0 0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR		0 C T	Calendar Year 2013   N D J F M A M J J A S O O E A E A P A U U U E C V C N B R R Y N L G P T										N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J J	J J	A U G	S E P	B A L		
CI	MWS A-	kit Proc	curement																												
	1	2011	ARMY	126	126	0																									
CI	MWS G	en 3 EC	U Hardwar	е																											_
	2	2011	ARMY	366	220	146	20	20	20	20	20	20	20	6																	
		Gen 3 ECU Hardware    2011   ARMY   366   220   146   20   20   20   20   20   20   20   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	N N	T U	A U G	S E P					

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
,		Item Nomenclature:
2031A / BA 4 / BSA 10	AZ3507 - Survivability CM	AZ3507 - Survivability CM

		PRODUC	CTION RATES (Un	its/Year)			F	ROCUREMENT LE	ADTIME (Month	s)		
MFR						Init	al			Reor	der	
Ref					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	18	300	800	3	3	12	15	2	2	9	11
2	BAE Systems - Nashua, NH	24	600	1000	6	6	6	12	6	6	6	12

#### Remarks:

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Army

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AZ3517 - CMWS

10: Ground Support Avionics

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	104.251	127.751	-	127.751	166.409	125.349	176.656	155.324	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	104.251	127.751	-	127.751	166.409	125.349	176.656	155.324	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	104.251	127.751	-	127.751	166.409	125.349	176.656	155.324	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **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 core element of the SIIRCM concept is the Advanced Threat Infrared Countermeasure/Common Missile Warning System (ATIRCM/CMWS) Program. The ATIRCM/CMWS is an integrated ultraviolet (UV) missile warning system, an IR Laser Jamming and Improved Countermeasure Dispenser (ICMD) serving as a subsystem to the host aircraft.

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 April 15, 2009. USD (AT&L) designated the ATIRCM/CMWS program as an Acquisition Category (ACAT) ID special interest program, and directed the establishment of the CMWS, ATIRCM and Common Infrared Countermeasure (CIRCM) subprograms. On September 3, 2010, the Principal Deputy to the USD (AT&L), Acting DAE signed an ADM approving the reinstatement of Milestone C for CMWS. The ADM redesignated the CMWS subprogram as ACAT IC. The Principal Deputy to the USD (AT&L) also approved a new baseline for the CMWS subprogram.

The CMWS subprogram is a UV missile warning system that cues both flare and laser countermeasures to defeat incoming missiles and provides a limited ability to warn aircrews of incoming unguided munitions. The B-kit consists of the components which perform the missile detection and identification, unquided munitions detection, 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 warning signal to on-board avionics (to alert crewmembers) and to the IR Jam Head Control Unit. Tier 1 threat missiles detected and tracked by the CMWS are subsequently defeated by a combination of missile seeker countermeasures. including decoy flares. In addition the CMWS ECU receives detections of unguided munitions which then passes oral and visual cues to the aircrew. The aircrew then applies the appropriate Tactics Techniques and Procedures (TTPs) to break contact or engage the enemy with own ship ordnance. The CMWS Generation 3 (Gen 3) Electronic Control Unit (ECU) will meet Tier 1 requirements while retaining a low false alarm rate. The Gen 3 ECU is required to obtain a Full Materiel Release for CMWS and ensure protection against emerging guided missile threats.

The A-kit for CMWS includes mounting hardware, wiring harnesses, cables, and other components necessary to install and interface the mission kit on host aircraft. The A-kit ensures the mission kit is functionally and physically operational with a specific host aircraft type.

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								UNG	CLASS	SIFIED	)									
Exhibit P-40, Bud	dget Item Ju	ustifi	cation	Sheet:	PB 2013	3 Army									Date	: Febru	uary 201	2		
<b>Appropriation / E</b> 2031A : Aircraft P 10 : Ground Supp	rocurement,	Arm					and Fad	cilities /			Item No CMWS		ature:							
ID Code (A=Service Ready	, B=Not Service Re	ady):				Program	Element	s for Cod	le B Items	s:			Oth	er Relate	d Progran	n Eleme	nts:			
Seco	ndary Distrib	oution	1			FY 2011			FY 201	2		FY 2 Bas				2013 CO		F	Y 2013 Total	3
Army Active	Quantity						-				-			-			-			-
	Total Obligation	Author	ity			1	-			104.2	251	1	12	27.751	,		-	1		127.751
Item Sche	dule		P	rior Year	's		FY 2011			FY 2012		F۱	2013 B	ase	FY	2013 O	co	F	/ 2013 T	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	<b>Qty</b> (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
AZ3517 - CMWS	P5, P5A, P21		-	-	-	-	-	-	-	-	104.251	-	-	127.751	-	-	-	-	-	127.75
Total Gross/Weapon System Cost					-			-			104.251			127.751			-			127.751
*Item Nomenclature repre	santa Itam Numb	or DO	DIC and It	om Nama	for the D40	A and DE:	Nama for t	the D19 and	d Daar Med	ification N	umber and	Madificatio	n Title for	the D2A: It	om Number	and Itam	Nama far th	D10		

 LI AZ3517 - CMWS
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Exhibit P-5, Cost	Ar	alysis:	PB 2013	Army											Date: Fe	bruary 2	012		
Appropriation / E 2031A / BA 4 / BS			ivity / Bu	ıdget Sı	ıb Activ	ity:		ne Item I 7 - CMW		lature:					Name, D	menclate OODIC): - CMWS	-	n Numbe	r, Item
		Resou	ırce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 2013	3 ОСО	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	n Co	st (\$ in Mi	llions)						-		-		104.251		127.751		-		127.751
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		_
Net Procurement (P1)	(\$ ir	n Millions)							-		-		104.251		127.751		-		127.751
Plus CY Advance Prod			Millions)						_		_		-		_		_		
Total Obligation Author									_		_		104.251		127.751		_		127.751
Total Obligation / tatric	, ity	(ψ 111 1011110)		e following	Resource S	ummary row	s are for in	formational n	ournoses onl	v The corre	spondina h	udget reques		umented els					127.701
Initial Spares (\$ in Mill	ions	)	(111	- Tonowing		aary 10W	2 4.0 101 111	e.madonal p	-	<i>J. 1110</i> 00110	-		-		-		_		_
Gross/Weapon Syster			in Thousar	nds)					_		_		_		_		_		_
			Prior Years			FY 2011			FY 2012		F`	Y 2013 Bas	se	F	Y 2013 O	0	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost	-	(\$ K)	(Lacii)	(\$ W )	(\$ 1.7)	(Lacii)	(\$ 101 )	(\$ K)	(Lacii)	(\$ W )	(\$ K)	(Lacii)	(\$ WI)	(\$1.7)	(Lacii)	(\$ W )	(\$ K)	(Lacii)	(\$ 101 )
Recurring Cost																			
† CMWS A-kit Procurement		-	-	-	-	-	0.000	-	-	0.000	291.000	84	24.457	-	-	0.000	291.000	84	24.457
CMWS A-kit Installation		-	-	-	-	-	0.000	-	-	0.000	-	-	12.247	-	-	0.000	-	-	12.247
Other Recurring Production (Software)		-	-	-	-	-	0.000	-	-	30.410	-	-	19.603	-	-	0.000	-	-	19.603
Systems Engineering/ Program Management		-	-	-	-	-	0.000	-	-	15.759	-	-	13.652	-	-	0.000	-	-	13.652
Systems Test and Evaluation		-	-	-	-	-	0.000	-	-	4.500	-	-	12.404	-	-	0.000	-	-	12.404
Total Recurring Cost				0.000			0.000			50.669			82.363	1		0.000			82.363
Non Recurring Cost						1								1		1	1		
Non-recurring Production		-	-	-	-	-	0.000	-	-	0.500	-	-	0.000	-	-	-	-	-	0.000
Total Non Recurring Cost				0.000			0.000			0.500			0.000			0.000			0.000
Total Flyaway Cost				0.000			0.000			51.169			82.363	1		0.000			82.363
Support Cost			1			I						1		1	1	1	I		
Training		-	-	-	-	-	0.000		-	2.127	-	-	1.000		-	0.000	-	-	1.000
Fielding		-	-	-	-	-	0.000		-	0.368	-	-	1.451		-	0.000	-	-	1.451
Data		-	-	-	-	-	0.000		-	0.070	-	-	0.000		-	- 0.000	-	-	0.000
Other Modifications  CMWS Gen 3 ECU  Hardware		-	-	-	-	-	0.000	139.000	360	0.595 49.922	139.000	301	1.079 41.858	+	-	0.000	139.000	301	1.079 41.858

 LI AZ3517 - CMWS
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Exhibit P-5, Cost Analysis: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A / BA 4 / BSA 10

P-1 Line Item Nomenclature:
AZ3517 - CMWS

Item Nomenclature (Item Number, Item Name, DODIC):
AZ3517 - CMWS

		F	Prior Years	3		FY 2011			FY 2012		F	Y 2013 Bas	se	F	2013 OCC	)	FY	/ 2013 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)									
Total Support Cost				0.000			0.000			53.082			45.388			0.000			45.388
Gross Weapon System Cost				-			=			104.251			127.751			-			127.751

#### Remarks:

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	-	104.251	127.751	-	127.751

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Exhibit P-5A, Budget Procure	eme	ent Hi	story and Planning: Pl	3 2013 Army					Date: Febr	uary 2	012		
Appropriation / Budget Activ 2031A / BA 4 / BSA 10	ity	/ Bud	•	<b>P-1 Line Iten</b> AZ3517 - CM		ature:			Item Nome AZ3517 - C				
Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	

CECOM, APG

Dec 2012

Jun 2013

84

291.000

Ν

SS / CPFF

Remarks:

†CMWS A-kit Procurement

2013

Various / Various

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Ε	xhibit	P-21	, Budge	et Pro	oducti	ion S	ched	ule: l	PB 20	)13 Aı	rmy													Date	: Feb	oruary	2012	<u> </u>			
			on / <b>Buo</b> 1 / BSA	_	Activi	ty / B	udge	t Sul	b Act	ivity:			_	Item I	<b>Nome</b> /S	ncla	ture:									nencl CMW	<b>ature</b> /S	:			
			Cost Eleme (Units in Ea								F	Fiscal Y	ear 201	13									F	iscal Y	ear 201	14					
						BAL								Ca	alendar	Year 20	013								Calen	dar Yea	ar 2014				
0 0	MFR	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT		0 C T	N O V	D E C	J A N	A   E   A   P   A   U   U   E   C   O   E   A   E   A   P   A   U   U   U					S E P	B A L														
C	MWS A-	kit Proc	urement																												
	1	2013	ARMY (1)	84	0	84	-	-	Α -	-	-	-	-	-	11	11	11	11	11	11	11	7		_							
							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	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	

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 4 / BSA 10	AZ3517 - CMWS	AZ3517 - CMWS

	PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT LE	ADTIME (Months	s)		
MFR					Init	ial			Reo	rder	
Ref				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	18	300	800	3	3	12	15	2	2	9	11

#### Remarks:

LI AZ3517 - CMWS
Army

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P-1 Line #36

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

<sup>(1)</sup>BASE

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

Date: February 2012

### Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AZ3000 - Avionics Support Equipment

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		C	ther Related I	Program Elen	nents:
	Prior			FY 2013	FY 2013	FY 2013				

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	454	410	415	-	415	399	396	396	396	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	485.769	4.857	4.840	4.886	-	4.886	4.809	4.862	4.947	5.030	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	485.769	4.857	4.840	4.886	-	4.886	4.809	4.862	4.947	5.030	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	485.769	4.857	4.840	4.886	-	4.886	4.809	4.862	4.947	5.030	Continuing	Continuing
(The follows	owing Resource	Summary rows	are for informa	tional purposes	only. The corre	espondina buda	et requests are	documented el	sewhere.)			

(The follo	wing Resource	Summary rows	are for informat	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	10.698	11.805	11.774	-	11.774	12.053	12.278	12.492	12.702	Continuing	Continuing

#### **Description:**

Consists of a family of avionics support equipment. Current program consists of the Aviators' Night Vision Imaging System (ANVIS).

Item Sch	edule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	СО	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
*** (See enclosed P-40A)	P40A				-			4.857			4.840			4.886			-			4.886
Total Gross/Weapon System Cost					485.769			4.857			4.840			4.886			-			4.886

\*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.

FY13 Base procurement dollars, in the amount of \$4.886 million, support the procurement of 415 AN/AVS-6(V)3 systems for fielding to Active Units. The increased capability of the AN/AVS-6(V)3 yields enhanced mission performance and improved safety of flight, compared to what is now possible using previous AN/AVS-6 systems. The AN/AVS-6(V)3 enhances the survivability, lethality, and tactical mobility for aviators

#### 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.

**UNCLASSIFIED** LI AZ3000 - Avionics Support Equipment Army

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Exhibit P-40A, Budget Item Justification For Aggregated Ite	ems: PB 2013 Army	Date: February 2012						
Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Aggregated Item Name:								
2031A / BA 4 / BSA 30	AZ3000 - Avionics Support Equipment	Various						

		All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)
(Uncategorized)																			
K35601 - ANVIS	Α	-	-	-	10.698	454	4.857	11.805	410	4.840	11.774	415	4.886	-	-	-	11.774	415	4.886
Uncategorized Subtotal				0.000			4.857			4.840			4.886			0.000			4.886
Total				0.000			4.857			4.840			4.886			0.000			4.886

Remarks:

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

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA | AZ3100 - Common Ground Equipment

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements for	r Code B Ite	ems:		Other Related P	rogram Elem	ents:
F	Prior			FY 2013	FY 2013	FY 2013			

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,292.716	141.324	114.517	82.511	-	82.511	112.897	94.445	166.684	131.088	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,292.716	141.324	114.517	82.511	-	82.511	112.897	94.445	166.684	131.088	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,292.716	141.324	114.517	82.511	-	82.511	112.897	94.445	166.684	131.088	Continuing	Continuing
(The folio	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

(The folio	wing resource	Summary rows	s are for informe	ilional purposes	only. The com	sponding budg	et requests are	documented er	Sevillere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

FY 2013 Base procurement dollars in the amount of \$82.511 million supports and provides various types of ground support equipment.

Item Sch	edule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
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 (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT	P5		-	-	-	-	-	141.324	-	-	114.517	-	-	82.511	-	-	-	-	-	82.511
Total Gross/Weapon System Cost					1,292.716			141.324			114.517			82.511			-			82.511

\*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.

#### 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.

**UNCLASSIFIED** 

								UN	CLASS	SIFIED									
Exhibit P-5, Cost	t Ar	alysis:	PB 2013	3 Army										I	Date: Fe	ebruary 2	012		
Appropriation / E 2031A / BA 4 / BS			ivity / Bu	udget S	ub Activ	ity:	1		Nomeno mon Gro		iipment				Name, [ AZ3520	omenclat DODIC): - AVIATI RT EQUI	ON GRO		r, Item
		Resou	ırce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 201	3 ОСО	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	m Cc	st (\$ in Mi	llions)						-	1	41.324		114.517		82.511		-		82.51
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	Millions)							-	1	41.324		114.517		82.511		-		82.51
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Author	ority (	(\$ in Million	ns)						-	1	41.324		114.517		82.511				82.51
			(Th	ne following	Resource S	ummary row	s are for int	formational p	purposes onl	y. The corre	sponding b	udget reques	sts are doc	umented els	ewhere.)				
Initial Spares (\$ in Mill	lions	)							-		-		-		-		-		-
Gross/Weapon Syster	m Ur	it Cost (\$	in Thousar	nds)					-		-		-		-		-		
		F	Prior Years	s		FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 O	СО	F	Y 2013 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	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost		. ,	, ,	, ,	, ,	, ,	. ,	,,,,	, ,	,,,,	. ,	, ,		1 ( ,	, ,		, ,	, ,	
Recurring Cost																			
Aviation Ground Power Unit		-	-	-	-	-	65.025	-	-	60.311	-	-	13.787	-	-	0.000	-	-	13.78
Avn Light Utility Mobile Maint (ALUMMC)		-	-	-	-	-	0.000	-	-	0.000	-	-	3.159	-	-	0.000	-	-	3.15
Avn Intermediate Maint (AVIM) Shop Sets		-	-	-	-	-	17.570	-	-	13.395	-	-	12.201	-	-	0.000	-	-	12.20
Avn Unit Maintenance (AVUM)/(A92)		-	-	-	-	-	9.366	-	-	0.000	-	-	16.297	-	-	0.000	-	-	16.29
B1/B4 Maintenance Stands		-	-	-	-	-	0.000	-	-	0.000	-	-	2.633	-	-	0.000	-	-	2.63
Battle Damage Assess Repair (BDAR) II		-	-	-	-	-	6.591	-	-	5.861	-	-	2.345	-	-	0.000	-	-	2.34
Common Aviation Tool System (CATS)		-	-	-	-	-	13.080	-	-	0.000	-	-	21.188	-	-	0.000	-	-	21.18
Flexible Engine		-	-	-	-	-	8.867	-	-	16.985	-	-	5.622	-	-	0.000	-	-	5.62
Diagnostics Sys (FEDS)																			
		-	-	-	-	-	0.000	-	-	1.983	-	-	0.000	-	-	-	-	-	0.00

LI AZ3100 - Common Ground Equipment Army

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Exhibit P-5, Cost Analysis: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number, Item

2031A / BA 4 / BSA 30

AZ3100 - Common Ground Equipment

Name, DODIC): AZ3520 - AVIATION GROUND

SUPPORT EQUIPMENT

Date: February 2012

		F	Prior Years			FY 2011			FY 2012		F`	Y 2013 Bas	se	F`	Y 2013 OC	)	F`	/ 2013 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)
Standard Aircraft Towing System (SATS)		-	-	-	-	-	14.802	-	-	1.734	-	-	0.000	-	-	-	-	-	0.000
Shop Equipment Contact Maint (SECM)		-	-	-	-	-	0.000	-	-	5.577	-	-	0.000	-	-	-	-	-	0.000
Swaging Tool Kits		-	-	-	-	-	0.000	-	-	0.000	-	-	1.921	-	-	0.000	-	-	1.921
Unit Maint Aerial Recovery Kit (UMARK)		-	-	-	-	-	0.000	-	-	5.384	-	-	0.000	-	-	-	-	-	0.000
Program Management Support		-	-	-	-	-	3.222	-	-	3.287	-	-	3.358	-	-	0.000	-	-	3.358
Total Recurring Cost				0.000			141.324			114.517			82.511			0.000			82.511
Total Flyaway Cost				0.000			141.324			114.517			82.511			0.000			82.511
Gross Weapon System Cost				-			141.324			114.517			82.511			-			82.511

#### Remarks

Kemarks.						
Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	141.324	114.517	82.511	-	82.511

UNCLASSIFIED
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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AZ3110 - Aircrew Integrated Systems

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	408.053	52.125	62.746	77.381	-	77.381	47.670	16.347	14.080	0.008	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	408.053	52.125	62.746	77.381	-	77.381	47.670	16.347	14.080	0.008	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	408.053	52.125	62.746	77.381	-	77.381	47.670	16.347	14.080	0.008	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

LI AZ3110 - Aircrew Integrated Systems

Army

Air Warrior survival and mission equipment improves the combat effectiveness of the Army aircrew members. Components include Clothing and Individual Equipment; a Microclimate Cooling System; an Aircrew Integrated Helmet System; laser eye 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 combines cold and hot weather protection functionality while simultaneously 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 and computer processors; enhances situational awareness and safety through an improved helmet mounted display with three dimensional symbology for flight in degraded visual environments; and improves laser eye protection. 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.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	52.125	62.746	77.381	-	77.381

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA | AZ3110 - Aircrew Integrated Systems

30 : Other Support

ID Code (A=Service Ready	, B=Not Service Rea	idy) :				Program	Element	s for Cod	e B Items	s:			Oth	er Related	d Progran	n Elemei	nts:			
Item Sche	dule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	co	FY	2013 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
AZ3110 - Aircrew Integrated Systems	P5, P5A, P21		-	-	-	-	-	52.125	-	-	62.746	-	-	77.381	-	-	-	-	-	77.381
Total Gross/Weapon System Cost					408.053			52.125			62.746			77.381			-			77.381

\*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.

#### Justification:

FY2013 Base procurement dollars in the amount of \$77.381 million supports production and fielding of the following Air Warrior products for deploying units: Electronic Data Manager (EDM); Encrypted Aircraft Wireless Intercom System (EAWIS), including A Kit and B Kit production and installations; Survival Kit, Ready Access, Modular (SKRAM); Communication Enhancement/Protection System (CEPS); and Microclimate Cooling for Apache Block 3. These funds also will procure Personnel Recovery Support System (PRSS) platform interoperability hardware and software improvements.

Funding procures equipment and materiel to support a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

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Exhibit P-5, Cost	t Ar	nalysis:	PB 2013	Army											Date: Fe	ebruary 2	012		
Appropriation / E 2031A / BA 4 / BS			ivity / Bu	udget S	ub Activ	ity:		<b>ne Item</b> 0 - Aircr			stems				Name, D	menclat OODIC): - Aircrew	•		
		Resou	urce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 201	з осо	FY 201	3 Total
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	n Co	st (\$ in Mi	illions)						-		52.125		62.746		77.381		-		77.381
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	n Millions)							-		52.125		62.746		77.381		-		77.381
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Author	ority	(\$ in Millio	ns)						-		52.125		62.746		77.381		-		77.381
			(Th	e following	Resource St	ummary row	s are for in	formational p	ourposes onl	y. The corre	sponding b	udget reques	ts are doc	umented els	ewhere.)		Y-		
Initial Spares (\$ in Mill	lions	)							-		-		-		-		-		-
Gross/Weapon Syster	n Ur	nit Cost (\$	in Thousar	nds)					-		-		-		-		-		-
		ı	Prior Years	S		FY 2011			FY 2012		F'	Y 2013 Bas	e	F	Y 2013 O	co	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		. ,	, ,	,	, ,	, ,	. ,	. ,	, ,	,,,,	1 , ,	. , , ,	. ,	, ,	, ,	. ,		. , ,	V: /
Recurring Cost									1										
† Air Warrior Ensembles		-	-	-	1.900	1,004	1.908	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
† Air Warrior Microclimate Cooling Garment		-	-	-	0.300	500	0.150	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
† Air Warrior Microclimate Cooling Units		-	-	-	7.700	567	4.366	3.000	100	0.300	3.090	100	0.309	-	-	0.000	3.090	100	0.309
† Electronic Data Mgr (EDM)		-	-	-	8.800	601	5.289	8.112	1,500	12.168	-	-	0.000	-	-	-	-	-	0.000
† Encrypt Acft Wrless Intercom Sys (EAWIS)		-	-	-	37.931	246	9.331	18.565	832	15.446	14.882	1,212	18.037	-	-	0.000	14.882	1,212	18.037
† Air Warrior Airframe Kits		-	-	-	8.101	1,059	8.579	4.300	1,181	5.078	4.072	1,828	7.443	-	-	0.000	4.072	1,828	7.443
Airframe Kit Installs		-	-	-	-	-	8.595	-	-	8.838	-	-	11.266	i -	-	0.000	-	-	11.266
† Survival Kit, Ready Access, Modular		-	-	-	-	-	0.000	0.142	9,450	1.339	0.079	7,203	0.566	-	-	0.000	0.079	7,203	0.566
† Communiction Enhance/Protect Syst (CEPS)		-	-	-	-	-	0.000	0.350	4,000	1.400	0.350	4,000	1.400	-	-	0.000	0.350	4,000	1.400
† Day/Night Helmet Mounted Displays		-	-	-	-	-	0.000	-	-	0.000	24.217	908	21.989	-	-	0.000	24.217	908	21.989
† PRSS Platform Modifications		-	-	-	-	-	0.000	400.000	6	2.400	854.000	2	1.708	-	-	0.000	854.000	2	1.708
Manuals		-	-	-	-	-	0.203	-	-	0.206	-	-	0.210	-	-	0.000	-	-	0.210

LI AZ3110 - Aircrew Integrated Systems Army

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Exhibit P-5, Cost Analysis: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number, Item

2031A / BA 4 / BSA 30

AZ3110 - Aircrew Integrated Systems

Name, DODIC):
AZ3110 - Aircrew Integrated Systems

Date: February 2012

		F	Prior Years	s		FY 2011			FY 2012		F`	Y 2013 Bas	se	F۱	Y 2013 OC	)	F	/ 2013 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)
New Equipment Training		-	-	-	-	-	0.211	-	-	1.112	-	-	1.142	-	-	0.000	-	-	1.142
Initial Spares		-	-	-	-	-	0.604	-	-	0.921	-	-	0.948	-	-	0.000	-	-	0.948
Support Equipment		-	-	-	-	-	0.223	-	-	0.223	-	-	0.227	-	-	0.000	-	-	0.227
Systems Test and Evaluation		-	-	-	-	-	0.814	-	-	1.221	-	-	1.245	-	-	0.000	-	-	1.245
Nonrecurring Engineering (NRE)		-	-	-	-	-	0.924	-	-	1.224	-	-	1.248	-	-	0.000	-	-	1.248
PRSS Interoperability Engineering		-	-	-	-	-	4.191	-	-	2.868	-	-	1.451	-	-	0.000	-	-	1.451
Engineering Changes		-	-	-	-	-	0.514	-	-	0.517	-	-	0.535	-	-	0.000	-	-	0.535
Systems Integration Engineering		-	-	-	-	-	0.625	-	-	0.734	-	-	0.789	-	-	0.000	-	-	0.789
Program Management & Matrix Support	(	-	-	-	-	-	4.076	-	-	5.126	-	-	5.223	-	-	0.000	-	-	5.223
Total Package Fielding		-	-	-	-	-	0.778	-	-	0.875	-	-	0.900	-	-	0.000	-	-	0.900
Contract Logistics Support		-	-	-	-	-	0.744	-	-	0.750	-	-	0.745	-	-	0.000	-	-	0.745
Total Recurring Cost				0.000			52.125			62.746			77.381			0.000			77.381
Total Flyaway Cost				0.000			52.125			62.746			77.381			0.000			77.381
Gross Weapon System Cost				-			52.125			62.746			77.381			=			77.381

Remarks:

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	52.125	62.746	77.381	-	77.381

LI AZ3110 - Aircrew Integrated Systems Army

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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:<br/>2031A / BA 4 / BSA 30P-1 Line Item Nomenclature:<br/>AZ3110 - Aircrew Integrated SystemsItem Nomenclature:<br/>AZ3110 - Aircrew Integrated Systems

2031A / BA 4 / BSA 30				AZ3110 - Air	crew Integra	ted Systems			AZ3110 - A	Aircrew	Integrated S	Systems
Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Air Warrior Ensembles		2011	CONAX / St. Petersburg, FL	C / FFP	Aberdeen Proving Grd	Dec 2010	Mar 2011	1,004	1.900	N		Nov 2007
†Air Warrior Microclimate Cooling Garment		2011	Carleton Technologies, Inc. / Orchard Park, NY	C / FFP	Redstone Arsenal, AL	Dec 2010	May 2011	500	0.300	N		Nov 2007
†Air Warrior Microclimate Cooling Units		2011	Carleton Technologies, Inc. / Orchard Park, NY	C / FFP	Redstone Arsenal, AL	Dec 2010	Mar 2011	567	7.700	N		Dec 2008
†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)		2011	Raytheon / Indianapolis, IN	C / FFP	Redstone Arsenal, AL	Jan 2011	Apr 2011	601	8.800	N		Jan 2008
†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)		2011	Telephonics / Farmingdale, NY	SS / FFP	Redstone Arsenal, AL	Mar 2011	Jun 2011	246	37.931	N		Jun 2010
†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		2011	Westwind Corporation / Huntsville, AL	C / FFP	Redstone Arsenal, AL	Dec 2010	Mar 2011	1,059	8.101	N		Nov 2007
†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	TBD / TBD	C / FFP	Redstone Arsenal, AL	Jul 2012	Dec 2012	9,450	0.142	N		
†Survival Kit, Ready Access, Modular		2013	TBD / TBD	C / FFP	Redstone Arsenal, AL	Mar 2013	Jul 2013	7,203	0.079	N		
†Communiction Enhance/Protect Syst (CEPS)		2012	Communications & Ear Protectio / Enterprise, AL	C / FP	Redstone Arsenal, AL	Jun 2012	Jan 2013	4,000	0.350	N		Jul 2010
†Communiction Enhance/Protect Syst (CEPS)		2013	Communications & Ear Protectio / Enterprise, AL	C/FP	Redstone Arsenal, AL	Jun 2013	Oct 2013	4,000	0.350	N		
†Day/Night Helmet Mounted Displays		2013	TBD / TBD	C / FP	Redstone Arsenal, AL	Apr 2013	Oct 2013	908	24.217	N		
†PRSS Platform Modifications		2012	TBD / TBD	C / FFP	Sandia National Labs	Aug 2012	Aug 2013	6	400.000	N		
†PRSS Platform Modifications		2013	TBD / TBD	C / FFP	Sandia National Labs	Aug 2013	Aug 2014	2	854.000	N		

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Exhibit P-5A, Budget Procurement History and Planning	• PR 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 4 / BSA 30	P-1 Line Item Nomenclature: AZ3110 - Aircrew Integrated Systems	Item Nomenclature: AZ3110 - Aircrew Integrated Systems
Remarks:  1. Unit Cost of Air Warrior Microclimate Cooling Units decreases in Unit Cost from F	Y 2011 to FY 2012 due to procurement of Apache Block 3 cooling starting in F	

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Exhibi	t P-21	1, Budge	et Pro	ducti	on So	ched	ule:	PB 20	)13 Ar	my													Date	: Febi	ruary	2012				
		on / Bud 4 / BSA		ctivit	y / B	udge	t Sul	b Act	ivity:		1	_ine I 110 - <i>i</i>				ure: ed Sys	stems	3						<b>Nom</b> 110 - <i>A</i>			egrate	ed Sy	stem	s
		Cost Elem									Fiscal Y	ear 201	1									F	iscal Y	ear 2012	2					
		(OIIIIS III LE			BAL			_			100011			lendar `	Year 20	11						<u> </u>	10001 1	Calenc		r 2012				
				ACCEP	-		Ī							.			_					_					. 1		_	
O MFR			PROC	-	AS OF 1	O C	N O	D E	J	F E	M A	A P	M A	n 1	Ŋ	A U	S E	C	N O	D E	J A	F E	M A	A P	M A	n 1	n 1	A U	S E	B
O Ref#		SERVICE <sup>1</sup>	QTY	ОСТ	ОСТ	Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	L
Air Warri			1004		1001		1	Τ.	1	I			0.1	2.1																
1		ARMY	1004	0	1004	-	-	Α -	-	-	83	84	84	84	84	84	84	84	84	83	83	83								
	_	oclimate Coo			500			1.	1	1			40	40	40	40	40	40	- 10	40	40	40	40	00						
2 Air Warri		ARMY oclimate Cod	500 Jing Unit	0 s	500	-	-	Α -	-	-	-	-	42	42	42	42	42	42	42	42	42	42	42	38						
3	2011	1	567	0	567		_	Α -	Ι.	l -	47	47	47	47	47	47	47	47	47	47	48	49								
3	2012	-	100	0	100	_	_	-	-	-		-	-			-	- "	- '		-	-	-	Α -	_	_	50	50			
3		ARMY	100	0	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	100
Electroni	ic Data N	Mgr (EDM)					<u> </u>	<u> </u>	ı																					
4	2011	ARMY	601	0	601	-	-	-	Α -	-	-	50	50	50	50	50	50	50	50	50	50	50	51							
4	2012	ARMY	1500	0	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	84	84	84	84	84	84	996
Encrypt /	Acft Wrle	ess Intercon	Sys (E	AWIS)										<u>'</u>						'										,
5	2011	ARMY	246	0	246	-	-	-	-	-	A -	-	-	15	15	20	20	20	20	22	22	23	23	23	23					
5	2012	ARMY	832	0	832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	65	767
5	2013	ARMY	1212	0	1212	-	-	-	-	-			-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	1212
Air Warri	ior Airfra																													_
6	2011		1059	0	1059	-	-	Α -	-	-	88	88	88	88	88	88	88	88	88		88	91								1
6	2012		1181	0	1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	94	94	94	94	94	94	94	_
6		ARMY	1828	0	1828	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1828
Survival 7		<u>, , , , , , , , , , , , , , , , , , , </u>	Modular	0	9450		1	1	1	1	T					I	1				I						•	1		0.450
7		ARMY ARMY	9450	0	7203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	9450
		nhance/Pro	7203			-	_	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	7203
8	_	ARMY	4000	0	4000		_	Τ.	Τ_	l _	Τ.	_	_	_	_	_ [	_	_			_	_	_	_	_	Α -	_	_		4000
8		ARMY	4000	0	4000		_		-		-	_	_	-		-	-	-		_	-	_		-		-	-	-		4000
		et Mounted I					L	1																						
9		ARMY	908	0	908	-	-	-	T -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	908
PRSS PI		 Modifications	3	l				1	1	1	1	1		l			l	I			I		1	1		<u> </u>		l		
10	2012	ARMY	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	6
	•	*	. '			0	N	D	J	F	М	A	М	J	J	A	s	0	N	D	J	F	М	A	М	J	J	A	s	
						C T	O V	E	A N	E B	A R	P R	A Y	U	U	U G	E P	C T	O V	E	A N	E B	A R	P R	A Y	UN	U	U G	E P	

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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 4 / BSA 30	AZ3110 - Aircrew Integrated Systems	AZ3110 - Aircrew Integrated Systems

			Cost Elem (Units in Ea								ı	iscal Y	ear 201	1									F	iscal Y	ear 201	2					
		ACCEP DUE PRIOR AS O N D J												Ca	alendar	Year 20	011								Calen	dar Yea	ar 2012				
0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR		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	A U G	S E P	B A L
	10	2013	ARMY	2	0	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 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 L	A U G	S E P	

													0.11	JLA	<i>-</i>															
Exhibit	t P-21	l, Budge	et Pro	ducti	on So	chedu	ule: F	PB 20	13 Arı	my													Date	: Feb	ruary	2012				
		<b>on / Bu</b> 4 / BSA		Ctivi	ty / B	udge	t Sub	Acti	vity:					Nome w Inte			stems	3							<b>encla</b> Aircre	<b>iture:</b> w Inte	grate	d Sys	tems	S
	,	Cost Elem																												
	1	(Units in Ea	ach)							F	iscal Y	ear 2013										F	iscal Ye							<u> </u>
				ACCEP	BAL DUE						I		Са	lendar \	Year 20	13			1					Calend	lar Yeaı	r 2014				
O C MFR O Ref#	FY	SERVICE <sup>2</sup>	PROC	PRIOR	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	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 Warrio			Q.II	001	001	• 1	•		.,				•		-	•	•	•	•		.,				•	.,		•	•	
1		ARMY	1004	1004	0																									
Air Warrio		climate Cod																												
2	1	ARMY	500	500	0																									
		climate Cod																												
3		ARMY	567	567	0																									
3		ARMY	100	100	0																									
3	2013	ARMY	100	0	100	-	-	-	-	_	Α -	-	-	50	50															
Electronic											l																			
Electronic Data Mgr (EDM)																														
4	2012	ARMY	1500	504	996	166	166	166	166	166	166																			
Encrypt A	cft Wrle	ess Intercon	n Sys (E	AWIS)																										
5	2011	ARMY	246	246	0																									
5	2012	ARMY	832	65	767	68	68	68	68	68	68	68	68	73	73	77														
5	2013	ARMY	1212	0	1212	-	-	-	-	-	Α -	-	-	101	101	101	101	101	101	101	101	101	101	101	101					
Air Warrio	or Airfra	me Kits																								_				
6	2011	ARMY	1059	1059	0																									
6	2012	ARMY	1181	658	523	94	94	94	104	137																				
6	2013	ARMY	1828	0	1828	-	-	Α -	-	-	152	152	152	152	152	152	152	152	152	152	154	154								
Survival I	Kit, Rea	dy Access,	Modular								-										'									
7	2012	ARMY	9450	0	9450	-	-	788	788	788	788	788	788	788	788	788	782	788	788											
7	2013	ARMY	7203	0	7203	-	-	-	-	-	Α -	-	-	-	600	600	600	600	600	600	600	600	600	601	601	601				
Commun	iction E	nhance/Pro	tect Syst	(CEPS	)	-																								
8	2012	ARMY	4000	0	4000	-	-	-	550	575	575	575	575	575	575															
8	2013	ARMY	4000	0	4000	-	-	-	-	-	-	-	-	A -	-	-	-	333	333	333	333	333	333	333	333	333	333	335	335	
Day/Nigh	t Helme	t Mounted I	Displays																											
9	2013	ARMY	908	0	908	-	-	-	-	-	-	A -	-	-	-	-	-	75	75	75	75	75	75	75	75	75	75	79	79	
PRSS Pla	atform N	/lodification:	s																											
10	2012	ARMY	6	0	6	-	-	-	-	-	-	-	-	-	-	6														
						O C T	N O N	D E C	J A N	F E B	M A R	A P R	M A Y	N N	ГСС	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	A U G	SEP	
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Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 4 / BSA 30	P-1 Line Item Nomenclature: AZ3110 - Aircrew Integrated Systems	Item Nomenclature: AZ3110 - Aircrew Integrated Systems
200 177 157 47 1507 00	A23110 - Aliciew integrated bystems	AZ3110 - Allorew integrated bystems

			Cost Elem (Units in Ea								F	iscal Y	ear 201	3									F	iscal Y	ear 201	4					
						BAL								Ca	lendar	Year 2	013								Calen	dar Yea	r 2014				
0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 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 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	N N	J J	A U G	S E P	B A L
	10	2013	ARMY	2	0	2	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	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	N N	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 L	A U G	S E P	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A / BA 4 / BSA 30	AZ3110 - Aircrew Integrated Systems	AZ3110 - Aircrew Integrated Systems

		PROPUG	TION DATES (II.					DOGUDENENT	EADTINE (M	- \		
		PRODUC	CTION RATES (Un	its/Year)			PI	ROCUREMENT LI	EADTIME (Month	s) 		
MFR						Ini	ial			Reo	rder	
Ref	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	CONAX - St. Petersburg, FL	83	300	1000	6	4	4	8	0	2	2	4
2	Carleton Technologies, Inc Orchard Park, NY	38	500	800	4	2	3	5	0	5	3	8
3	Carleton Technologies, Inc Orchard Park, NY	38	500	800	4	2	3	5	0	5	3	8
4	Raytheon - Indianapolis, IN	41	300	500	5	4	4	8	0	2	4	6
5	Telephonics - Farmingdale, NY	6	250	500	5	5	3	8	0	8	3	11
6	Westwind Corporation - Huntsville, AL	50	400	1500	5	9	3	12	0	2	3	5
7	TBD - TBD	300	800	1000	5	6	6	12	0	6	6	12
8	Communications & Ear Protectio - Enterprise, AL	65	500	700	8	8	7	15	0	8	4	12
9	TBD - TBD	300	800	1000	5	6	6	12	0	6	6	12
10	TBD - TBD	300	800	1000	5	6	6	12	0	6	6	12

#### Remarks:

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<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AA0050 - Air Traffic Control

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents: 06046	33A	
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	911.289	82.374	114.844	47.235	-	47.235	74.784	114.165	100.999	101.629	0.000	1,547.319
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	911.289	82.374	114.844	47.235	-	47.235	74.784	114.165	100.999	101.629	0.000	1,547.319
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	911.289	82.374	114.844	47.235	-	47.235	74.784	114.165	100.999	101.629	0.000	1,547.319
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	911.289	82.374	114.844	47.235	-	47.235	74.784	114.165	100.999	101.629	0.000	1,547.319
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

#### **Description:**

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 Battle Command System. (ABCS), performs enroute Air Traffic Services (ATS) and Airspace Command and Control (AC2) at brigade to theater commands. TAIS P3I includes Advanced Fusion Tracking System (AFTS) and Link 16/Tactical Digital Information Link (TADIL-J) upgrades that improve the reliability and usability of the air picture. AFTS 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-jam 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 control effort, meaning simulation at the airfield for take-off/landing under Visual Flight Rules (VFR), 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 Department of Defense (DoD) Advanced Automation System (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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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AA0050 - Air Traffic Control

30 : Other Support

ID Code (A=Service Ready	ID Code (A=Service Ready, B=Not Service Ready) : Program Elements for C					s for Cod	r Code B Items: Other Related Program Elements: 0604633A													
Item Sche	dule		P	rior Year	rs		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	co	FY	2013 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
AA0050 - Air Traffic Control	P5		-	-	-	-	-	82.374	-	-	114.844	-	-	47.235	-	-	-	-	-	47.235
Total Gross/Weapon System Cost					911.289			82.374			114.844			47.235			-			47.235

1tem 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.

#### Justification:

FY 2013 Base procurement dollars in the amount of \$47.235 million supports tactical and fixed base ATC systems and P3I modifications 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 (ORD) requirement for force protection. 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 MOTS system. Funds for the ATC Common Tactical Simulator will provide the capability to respond to voice commands and allow for controller error that can be captured, analyzed, and provide corrective actions to the operator. Navigational Control Aids include the AAAS and Radio/Antenna systems. These funds also procure radio and antenna systems and P3I for DAAS, provide for continuation of DASR, radio, P3I DAAS and AAAS installs, provide for modifications of FBPAR systems, and fund the Army joint service capability required for the DoD/FAA modernization and upgrade of the NAS via the Next Gen program. These systems will save significant Operational and Support costs by replacing old, obsolete, and antiquated analog radars, and automation systems with highly reliable modern and compliant ATC systems in towers and approach control facilities. Radios will meet current and emerging spectrum management requirements. Equipment quantity and configuration is tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures compliance and interoperability between the Army, Joint, and FAA systems.

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	t Ar	alysis:	PB 2013	Army											Date: Fe	bruary 2	012		
Appropriation / E 2031A / BA 4 / BS			ivity / Bu	ıdget Sı	ub Activ	ity:	1		Nomeno raffic Co						Item No Name, D AA0050	ODIC):	-	n Numbe rol	r, Item
		Resou	urce Sur	nmary				Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
Procurement Quantity	(Ea	ch)							-		-		-		-		-		-
Gross/Weapon Syster	n Cc	st (\$ in Mi	illions)						-		82.374		114.844		47.235	5 -		47	
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-	-	
Net Procurement (P1)	(\$ ir	n Millions)							-		82.374		114.844		47.235		-		47.23
Plus CY Advance Pro	Advance Procurement (\$ in Millions)					-		-		-		-		-		-			
Total Obligation Author	rity (	(\$ in Millio	ns)						-		82.374		114.844		47.235		-		47.23
-			•	e following	Resource S	ummary row	s are for in	formational (	ourposes onl	ly. The corre	sponding b	udget reques	sts are doc	umented els	sewhere.)		<u> </u>		
Initial Spares (\$ in Mill	ions	)	•						-	·	82.374		114.844		47.235		-		47.23
Gross/Weapon Syster			in Thousar	nds)					-		-		-		-		-		_
			Prior Years	 S		FY 2011			FY 2012		F'	Y 2013 Bas	se	F	Y 2013 OC	0	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		(ψ / ( )	(Luon)	(\$ 111 )	(\$11)	(Edon)	(\$10.7)	(\$7.7)	(Eddin)	(\$ 1017)	(\$717)	(Edon)	(\$ 1117)	(ψπ)	(Luon)	(\$ 1117)	(\$717)	(Luon)	(0 111 )
Recurring Cost																			
Fixed Base Precision Approach Radar		-	-	-	-	-	1.443	-	-	3.648	-	-	0.584	-	-	0.000	-	-	0.58
DoD Advanced Automation System (DAAS)		-	-	-	-	-	3.861	-	-	5.516	-	-	5.322	-	-	0.000	-	-	5.32
Digital Airport Surveillance Radar(DASR)		-	-	-	-	-	1.167	-	-	1.362	-	-	1.389	-	-	0.000	-	-	1.38
Tactical Airspace Integration Sys (TAIS)		-	-	-	-	-	25.846	-	-	19.977	-	-	13.819	-	-	0.000	-	-	13.81
Air Traffic Navigation and Integration		-	-	-	-	-	8.107	-	-	28.758	-	-	14.476	-	-	0.000	-	-	14.47
Navigational Control Aids		-	-	-	-	-	10.200	-	-	8.349	-	-	1.877	-	-	0.000	-	-	1.87
Tactical Terminal Control System (TTCS)		-	-	-	-	-	2.969	-	-	1.625	-	-	1.225	-	-	0.000	-	-	1.22
Mobile Tower System (MOTS)		-	-	-	-	-	28.781	-	-	44.549	-	-	7.655	-	-	0.000	-	-	7.65
Common Tactical Simulator		-	-	-	-	-	0.000	-	-	1.060	-	-	0.888	-	-	0.000	-	-	0.88
Total Recurring Cost				0.000			82.374	!		114.844			47.235	5		0.000			47.23
Total Flyaway Cost				0.000			82.374			114.844			47.235			0.000			47.23
Gross Weapon System		i .	1		1	1	82.374	.1	1	114.844	1	1	47.235	- 1	1	_	1		47.23

LI AA0050 - Air Traffic Control Army

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Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2031A / BA 4 / BSA 30	P-1 Line Item Nomenclature: AA0050 - Air Traffic Control	Item Nomenclature (Item Number, Item Name, DODIC): AA0050 - Air Traffic Control
Remarks:		

LI AA0050 - Air Traffic Control Army

UNCLASSIFIED
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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA AZ3300 - Industrial Facilities

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready):	Progran	Program Elements for Code B Items:					Other Related Program Elements:						
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total	
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	2,856.404	1.557	1.593	1.643	-	1.643	1.615	1.619	1.634	1.662	0.000	2,867.727	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P1) (\$ in Millions)	2,856.404	1.557	1.593	1.643	-	1.643	1.615	1.619	1.634	1.662	0.000	2,867.727	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	2,856.404	1.557	1.593	1.643	-	1.643	1.615	1.619	1.634	1.662	0.000	2,867.727	
(The folio	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)		•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	

#### **Description:**

This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) 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 Proving Ground (YPG), Yuma, AZ. Note: Previous years funding supported sustainment of production test capabilities at the Aviation Technical Test Center (ATTC), Fort Rucker, AL. Base Realignment and Closure (BRAC) decisions move the ATTC from Fort Rucker, to RTC in Huntsville, AL. All of the instrumentation and equipment procured for ATTC will be moved with the Test Center to Huntsville and will be used for Aircraft Testing in the relocation of this mission.

#### Justification:

ATEC: At RTC, FY 2013 procures upgraded telemetry equipment used to capture and process real-time data transmitted at high data rates and frequencies during open air developmental flight tests. At YPG, FY 2013 procures replacement aircraft instrumentation for the time-stamping and on-board recording and telemetering of data from standard 1553 multiples bus, analog video from sensors, intercom (voice), and analog sensors; and on-board recorders and telemetry equipment that can meet the environment and data speeds needed for production base aviation programs. Funding will also provide YPG enhancements and upgrades to the data acquisition software and flight models in the weapons System Test and Integration Lab; procure new NSA approved telemetry encryption and decryption devices to support classified test missions; procure an acoustic/seismic sensor system that will allow the YPG test team to accurately determine impact locations for high rate aerial fired weapon systems during aircraft weapons performance tests and procure on-board instrumentation for real-time collection of aircraft performance data. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized.

All COMPO 1 Active

UNCLASSIFIED LI AZ3300 - Industrial Facilities 430 Page 1 of 1 P-1 Line #41 Army

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

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA A50100 - Launcher, 2.75 Rocket

30 : Other Support

ID Code (A=Service Ready, B=Not Service Ready):		Prograr	Program Elements for Code B Items:				Other Related Program Elements:						
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total	
Procurement Quantity (Each)	-	495	464	95	-	95	2,152	2,238	1,437	395	0	7,276	
Gross/Weapon System Cost (\$ in Millions)	73.772	2.875	2.878	0.516	-	0.516	12.877	18.758	17.858	18.229	0.000	147.763	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	_	-	
Net Procurement (P1) (\$ in Millions)	73.772	2.875	2.878	0.516	-	0.516	12.877	18.758	17.858	18.229	0.000	147.763	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	73.772	2.875	2.878	0.516	-	0.516	12.877	18.758	17.858	18.229	0.000	147.763	
(The fol	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
FL Hall Oral (ft in The conside)													

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	5.808	6.203	-	-	-	-	-	-	-	0.000	0.020

#### **Description:**

The M261 19-tube analog launcher and the M260 7-tube analog launchers 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 rockets firing 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.

The Modernized Rocket Launcher (MRL) will bring 21st Century capabilities to the proven Hydra 70 Rocket system by integrating the digital systems of aviation platforms with a non-umbilical rocket interface that will increase accuracy, improve reliability, enhance safety, and improve rocket loading times. The MRL is a fully digital launcher, therefore, eliminating weapon-unique aircraft equipment by providing a nonproprietary, open architecture standard interface for future enhancements.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	495	464	95	-	95
	Total Obligation Authority	2.875	2.878	0.516	-	0.516

#### Justification:

FY 2013 procurement dollars in the amount of \$.516 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 firing 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.

NOTE: Quantities associated with this program procure the following:

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Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army	Date: February 2012						
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 4: Support Equipment and Facilities / BSA 30: Other Support	P-1 Line Item Nomenclature: A 50100 - Launcher, 2.75 Rocket						
ID Code (A=Service Ready, B=Not Service Ready) : Program Elements for Code B It	Items: Other Related Program Elements:						
FY13 FY14 FY15 FY16 FY17 MRL AH64							

LI A50100 - Launcher, 2.75 Rocket Army

Army - President's Budget Submission FY 2013 - Procurement

# **Multiyear Procurement Exhibits**

- CH-47
- UH-60

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	<b>P-1 Item Nomenclature:</b> CH-47 Helicopter (A05101)	

#### 1. Multiyear Procurement Description:

This package represents the multi-year procurement of 34 New Build CH-47F aircraft (A05008) and 121 Renew aircraft (A05105) for a total of 155 aircraft on a five-year multi-year 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.

#### 2. Benefit to the Government:

## a. Substantial Savings:

(1) Based on a comparison of the estimated prices for single year contracts to the estimated price for one five-year multi-year, there is a cost avoidance of approximately \$373 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 multi-year. 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. Multi-year 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 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. Six production lots, totaling more than 131 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

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012				
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: CH-47 Helicopter (A05101)					

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 Estimate:

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 actual costs from production lots 1, 2, 3, 4, 5 and 6. The 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:

This MYP strategy has been structured to achieve significant cost avoidance and will eliminate the need to develop an annual plan on a yearly basis; one year of planning will replace five independent years of planning. This strategy maintains the capability to produce additional aircraft to maintain an industrial base necessary to meet the production requirements of current and future helicopter systems. Cost avoidance resulting from economic order quantities and independent planning result in benefit to industry and government.

	<b>\$</b> ir	<u>Millions</u>
Inflation	\$	34.000
Vendor Procurement	\$	170.000
Manufacturing	\$	56.000
Design/Engineering	\$	0.000
Tool Design	\$	0.000
Support Equipment	\$	0.000
Other	\$	113.000
Workload Savings	\$	0.000
Total	\$	373.000

Exhibit MYP-1, Multiyear Procurement Criteria	Date: February 2012
Appropriation / Budget Activity:	P-1 Item Nomenclature:
2031 Aircraft Procurement - Army / Aircraft (BA-01)	CH-47 Helicopter (A05101)

#### 4. Advantages of the MYP:

A multi-year contract provides substantial cost avoidance of \$373 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 multi-year 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 multi-year 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, multi-year contracting will produce acceptable supplier pricing due to the stable business base.

Production Capacity: The production capacity for the Prime Contractor is 4 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:

	<u>Annual</u>	<u>MultiYear</u>
	<b>Contracts</b>	<b>Contract</b>
Quantity	155	155
Total Contract Price	\$ 3,736.000	\$ 3,363.000
Cancellation Ceiling (highest point)		
Funded		\$ 0.000
Unfunded		\$ 0.000
\$ Cost Avoidance Over Annual		\$ 373.000
% Cost Avoidance Over Annual		10.0 %

Exhibit MYP-2 Total Program Fund PROCUREMENT	3 (	,			Date February 2012 P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
Procurement Quantity		31	28	30	39	27					155
Annual Procurement											
Gross Cost		1190.0	960.0	996.0	1311.0	899.0					5356.0
Less PY Adv Procurement		(55.0)	(90.0)	(108.0)	(114.0)	(116.0)					(483.0
Net Procurement (= P-1)		1135.0	870.0	888.0	1197.0	783.0					4873.0
Plus CY Adv Procurement	55.0	90.0	108.0	114.0	116.0	39.0					522.0
Weapon System Cost	55.0	1225.0	978.0	1002.0	1313.0	822.0					5395.0
Multiyear Procurement											
Gross Cost (P-1)		1131.0	900.0	923.0	1190.0	857.0					5001.0
Less PY Adv Procurement		(55.0)	(83.0)	(98.0)	(102.0)	(102.0)					(440.0
Net Procurement (= P-1)		1076.0	817.0	825.0	1088.0	755.0					4561.0
Advance Procurement											
'For FY13	55.0										55.0
'For FY14		83.0									83.0
'For FY15			98.0								98.0
'For FY16				102.0							102.0
'For FY17		20.0	00.0	400.0	102.0						102.0
Plus CY Adv Procurement	55.0	83.0	98.0	102.0	102.0	755.0					440.0
Weapon System Cost	55.0	1,159.0	915.0	927.0	1,190.0	755.0					5,001.0
MultiyearSavings (\$)		66.0	63.0	75.0	123.0	67.0					394.0
Multiyear Savings (%) (total only)											7.4 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
OUTLAYS											
Annual		134.0	685.0	936.0	1016.0	1114.0	897.0	394.0	110.0	34.0	5320.0
Multiyear		128.0	646.0	878.0	942.0	1019.0	819.0	362.0	101.0	31.0	4926.0
Savings		6.0	39.0	58.0	74.0	95.0	78.0	32.0	9.0	3.0	394.0

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-3 Total Contract Fund PROCUREMENT	,	,			Date February 2012 P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
T ROOCKEMENT	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
Procurement Quantity		31	28	30	39	27					155
		01	20	00	00	21					100
Annual Procurement											
Gross Cost		745.0	663.0	711.0	971.0	646.0					3736.0
Less PY Adv Procurement		(55.0)	(90.0)	(108.0)	(114.0)	(116.0)					(483.0
Net Procurement (= P-1)		690.0	573.0	603.0	857.0	530.0					3253.0
Plus CY Adv Procurement	55.0	90.0	108.0	114.0	116.0						483.0
Contract Price	55.0	780.0	681.0	717.0	973.0	530.0					3736.0
Multiyear Procurement											
Gross Cost (P-1)		689.0	607.0	643.0	857.0	567.0					3363.0
Less PY Adv Procurement		(55.0)	(83.0)	(98.0)	(102.0)	(102.0)					(440.0
Net Procurement (= P-1)		634.0	524.0	545.0	755.0	465.0					2923.0
Advance Procurement											
'For FY13	55.0										55.0
'For FY14		83.0									83.0
'For FY15			98.0								98.0
'For FY16				102.0							102.0
'For FY17					102.0						102.0
Plus CY Adv Procurement	55.0	83.0	98.0	102.0	102.0						440.0
Contract Price	55.0	717.0	622.0	647.0	857.0	465.0					3,363.0
MultiyearSavings (\$)		63.0	59.0	70.0	116.0	65.0					373.0
Multiyear Savings (%) (total only)											10.0 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
OUTLAYS											
Annual		86.0	443.0	631.0	716.0	802.0	623.0	268.0	75.0	23.0	3667.0
Multiyear		79.0	407.0	578.0	648.0	714.0	550.0	235.0	66.0	20.0	3297.0
Savings		7.0	36.0	53.0	68.0	88.0	73.0	33.0	9.0	3.0	370.0

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

P-1 Shopping List - Item No 20-6775A05101

Exhibit MYP-3, Total Contract Funding Plan (MYP, Page 5 of 6)

<sup>\*</sup> Numbers may not add due to rounding.

alysis (ARMY)			Date	Date February 2012						
, , ,			P-1 l	P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL	
86.0	443.0	631.0	716.0	802.0	623.0	268.0	75.0	23.0	3667.0	
86.0	435.6	610.0	680.3	748.6	571.3	241.4	66.4	20.0	3459.6	
84.8	425.3	589.8	651.4	710.0	536.7	224.6	61.2	18.3	3302.0	
79.0	407.0	578.0	648.0	714.0	550.0	235.0	66.0	20.0	3297.0	
79.0	400.2	558.8	615.7	666.4	504.3	211.7	58.4	17.4	3111.9	
77.9	390.7	540.3	589.6	632.1	473.8	197.0	53.8	15.9	2970.9	
7.0	36.0	53.0	68.0	88.0	73.0	33.0	9.0	3.0	370.0	
7.0	35.4	51.2	64.6	82.1	66.9	29.7	8.0	2.6	347.6	
6.9	34.6	49.5	61.9	77.9	62.9	27.7	7.3	2.4	331.0	
7.0	36.0	53.0	68.0	88.0	73.0	33.0	9.0	3.0	370.0	
	2013  86.0 86.0 84.8  79.0 79.0 77.9  7.0 6.9	2013 2014  86.0 443.0  86.0 435.6  84.8 425.3  79.0 407.0  79.0 400.2  77.9 390.7  7.0 36.0  7.0 35.4  6.9 34.6	2013     2014     2015       86.0     443.0     631.0       86.0     435.6     610.0       84.8     425.3     589.8       79.0     407.0     578.0       79.0     400.2     558.8       77.9     390.7     540.3       7.0     36.0     53.0       7.0     35.4     51.2       6.9     34.6     49.5	86.0         443.0         631.0         716.0           86.0         435.6         610.0         680.3           84.8         425.3         589.8         651.4           79.0         407.0         578.0         648.0           79.0         400.2         558.8         615.7           77.9         390.7         540.3         589.6           7.0         36.0         53.0         68.0           7.0         35.4         51.2         64.6           6.9         34.6         49.5         61.9	P-1 Line Item No.  2013 2014 2015 2016 2017  86.0 443.0 631.0 716.0 802.0 86.0 435.6 610.0 680.3 748.6 84.8 425.3 589.8 651.4 710.0  79.0 407.0 578.0 648.0 714.0 79.0 400.2 558.8 615.7 666.4 77.9 390.7 540.3 589.6 632.1  7.0 36.0 53.0 68.0 88.0 7.0 35.4 51.2 64.6 82.1 6.9 34.6 49.5 61.9 77.9	P-1 Line Item Nomenclature  2013 2014 2015 2016 2017 2018  86.0 443.0 631.0 716.0 802.0 623.0  86.0 435.6 610.0 680.3 748.6 571.3  84.8 425.3 589.8 651.4 710.0 536.7  79.0 407.0 578.0 648.0 714.0 550.0  79.0 400.2 558.8 615.7 666.4 504.3  77.9 390.7 540.3 589.6 632.1 473.8  7.0 36.0 53.0 68.0 88.0 73.0  7.0 35.4 51.2 64.6 82.1 66.9  6.9 34.6 49.5 61.9 77.9 62.9	P-1 Line Item Nomenclature - CH-47 Heli  2013 2014 2015 2016 2017 2018 2019  86.0 443.0 631.0 716.0 802.0 623.0 268.0  86.0 435.6 610.0 680.3 748.6 571.3 241.4  84.8 425.3 589.8 651.4 710.0 536.7 224.6  79.0 407.0 578.0 648.0 714.0 550.0 235.0  79.0 400.2 558.8 615.7 666.4 504.3 211.7  77.9 390.7 540.3 589.6 632.1 473.8 197.0  7.0 36.0 53.0 68.0 88.0 73.0 33.0  7.0 35.4 51.2 64.6 82.1 66.9 29.7  6.9 34.6 49.5 61.9 77.9 62.9 27.7	P-1 Line Item Nomenclature - CH-47 Helicopter (A05)  2013 2014 2015 2016 2017 2018 2019 2020  86.0 443.0 631.0 716.0 802.0 623.0 268.0 75.0  86.0 435.6 610.0 680.3 748.6 571.3 241.4 66.4  84.8 425.3 589.8 651.4 710.0 536.7 224.6 61.2  79.0 407.0 578.0 648.0 714.0 550.0 235.0 66.0  79.0 400.2 558.8 615.7 666.4 504.3 211.7 58.4  77.9 390.7 540.3 589.6 632.1 473.8 197.0 53.8  7.0 36.0 53.0 68.0 88.0 73.0 33.0 9.0  7.0 35.4 51.2 64.6 82.1 66.9 29.7 8.0  6.9 34.6 49.5 61.9 77.9 62.9 27.7 7.3	P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)  2013 2014 2015 2016 2017 2018 2019 2020 2021  86.0 443.0 631.0 716.0 802.0 623.0 268.0 75.0 23.0  86.0 435.6 610.0 680.3 748.6 571.3 241.4 66.4 20.0  84.8 425.3 589.8 651.4 710.0 536.7 224.6 61.2 18.3  79.0 407.0 578.0 648.0 714.0 550.0 235.0 66.0 20.0  79.0 400.2 558.8 615.7 666.4 504.3 211.7 58.4 17.4  77.9 390.7 540.3 589.6 632.1 473.8 197.0 53.8 15.9  7.0 36.0 53.0 68.0 88.0 73.0 33.0 9.0 3.0  7.0 35.4 51.2 64.6 82.1 66.9 29.7 8.0 2.6  6.9 34.6 49.5 61.9 77.9 62.9 27.7 7.3 2.4	

**NOTE:** MYP Procurement Period is 9 years. Real Interest Rate for MYP Procurement Period of 9 years is 1.00966666%. (OMB Circular No. A-94, February 3, 2011)

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	<b>P-1 Item Nomenclature:</b> CH-47 Helicopter New Build (A05008)	

#### 1. Multiyear Procurement Description:

This package represents the multi-year procurement of 34 New Build CH-47F aircraft on a five-year multi-year 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 Renew SSN A05105, is a subset of ASN A05101. Together, the New Build and Renew multi-year procurement will have a combined cost avoidance of of \$373M, FY13-17.

#### 2. Benefit to the Government:

#### a. Substantial Savings:

(1) Based on a comparison of the estimated prices for single year contracts to the estimated price for one five-year multi-year, there is a cost avoidance of approximately \$113 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 multi-year. 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. Multi-year 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 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. Six production lots, totaling more than 131 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

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: CH-47 Helicopter New Build (A05008)	

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 Estimate:

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 actual costs from production lots 1, 2, 3, 4, 5 and 6. The 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:

This MYP strategy has been structured to achieve significant cost avoidance and will eliminate the need to develop an annual plan on a yearly basis; one year of planning will replace five independent years of planning. This strategy maintains the capability to produce additional aircraft to maintain an industrial base necessary to meet the production requirements of current and future helicopter systems. Cost avoidance resulting from economic order quantities and independent planning result in benefit to industry and government.

	<b>\$ in</b>	<b>Millions</b>
Inflation	\$	9.000
Vendor Procurement	\$	53.000
Manufacturing	\$	17.000
Design/Engineering	\$	0.000
Tool Design	\$	0.000
Support Equipment	\$	0.000
Other	\$	34.000
Workload Savings	\$	0.000
Total	\$	113.000

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: CH-47 Helicopter New Build (A05008)	

#### 4. Advantages of the MYP:

A multi-year contract provides substantial cost avoidance of \$113 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 Renew SSN A05105, is a subset of ASN A05101. Together, the New Build and Renew multi-year procurement will have a combined cost avoidance of \$373M, 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 multi-year 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 multi-year 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, multi-year 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</b>	<u>I</u>	<u>MultiYear</u>
	9	<u>Contracts</u>		<b>Contract</b>
Quantity		34		34
Total Contract Price	\$	929.000	\$	816.000
Cancellation Ceiling (highest point)				
Funded			\$	0.000
Unfunded			\$	0.000
\$ Cost Avoidance Over Annual			\$	113.000
% Cost Avoidance Over Annual				12.2 %

Exhibit MYP-2 Total Program Fund	ding Plan (ARMY)			Date		ry 2012	011.4=11.1		D !!! (4.0.000)	(1510.0
PROCUREMENT			T	P-1	Line Item No	omenclature -	· CH-47 Hel	icopter New	Build (A05008) (	(ARMY)
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
Procurement Quantity	12	6	4	12						34
Annual Procurement										
Gross Cost	559.0	241.0	172.0	455.0						1427.0
Less PY Adv Procurement										
Net Procurement (= P-1)	559.0	241.0	172.0	455.0						1427.0
Plus CY Adv Procurement										
Weapon System Cost	559.0	241.0	172.0	455.0						1427.0
Multiyear Procurement										
Gross Cost (P-1)	525.0	221.0	157.0	404.0						1307.0
Less PY Adv Procurement										
Net Procurement (= P-1)	525.0	221.0	157.0	404.0						1307.0
Advance Procurement										
Plus CY Adv Procurement										
Weapon System Cost	525.0	221.0	157.0	404.0						1307.0
MultiyearSavings (\$)	34.0	20.0	15.0	51.0						120.0
Multiyear Savings (%)										8.4 %
Cancellation Ceiling, Funded										
Cancellation Ceiling, Unfunded										
OUTLAYS										
Annual	61.0	290.0	300.0	252.0	296.0	161.0	48.0	11.0	6.00	1425.0
Multiyear	58.0	271.0	277.0	230.0	265.0	143.0	44.0	10.0	5.00	1303.0
Savings	3.0	19.0	23.0	22.0	31.0	18.0	4.0	1.0	1.00	122.0
5	3.0									

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-3 Total Contract Fund	ding Plan (ARMY)			Date	Februa	ry 2012				
PROCUREMENT				P-1 l	Line Item No	omenclature -	- CH-47 He	licopter New	Build (A0500	8) (ARMY)
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
Procurement Quantity	12	6	4	12						34
Annual Procurement										
Gross Cost	320.0	163.0	110.0	336.0						929.0
Less PY Adv Procurement										
Net Procurement (= P-1)	320.0	163.0	110.0	336.0						929.0
Plus CY Adv Procurement										
Contract Price	320.0	163.0	110.0	336.0						929.0
Multiyear Procurement										
Gross Cost (P-1)	288.0	144.0	96.0	288.0						816.0
Less PY Adv Procurement										
Net Procurement (= P-1)	288.0	144.0	96.0	288.0						816.0
Advance Procurement										
Plus CY Adv Procurement										
Contract Price	288.0	144.0	96.0	288.0						816.0
MultiyearSavings (\$)	32.0	19.0	14.0	48.0						113.0
Multiyear Savings (%)										12.2 %
Cancellation Ceiling, Funded										
Cancellation Ceiling, Unfunded										
OUTLAYS										
Annual	35.0	169.0	183.0	166.0	211.0	116.0	36.0	8.0	4.00	928.0
Multiyear	32.0	152.0	164.0	145.0	183.0	100.0	29.0	7.0	3.00	815.0
Savings	3.0	17.0	19.0	21.0	28.0	16.0	7.0	1.0	1.00	113.0

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-4 Present Value	Analysis (ARMY)	Date	Februa	ry 2012						
PROCUREMENT				P-1 l	P-1 Line Item Nomenclature - CH-47 Helicopter New Build (A05008) (ARMY)					
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
Annual Proposal										
Then Year Cost	35.0	169.0	183.0	166.0	211.0	116.0	36.0	8.0	4.0	928.0
Constant Year Cost	35.0	166.2	176.9	157.7	196.9	106.4	32.4	7.1	3.5	882.1
Present Value	34.5	162.2	171.1	151.0	186.8	99.9	30.2	6.5	3.2	845.4
Multiyear Proposal										
Then Year Cost	32.0	152.0	164.0	145.0	183.0	100.0	29.0	7.0	3.0	815.0
Constant Year Cost	32.0	149.5	158.5	137.8	170.8	91.7	26.1	6.2	2.6	775.2
Present Value	31.5	145.9	153.3	131.9	162.0	86.1	24.3	5.7	2.4	743.2
Difference										
Then Year Cost	3.0	17.0	19.0	21.0	28.0	16.0	7.0	1.0	1.0	113.0
Constant Year Cost	3.0	16.7	18.4	20.0	26.1	14.7	6.3	0.9	0.9	106.9
Present Value	3.0	16.3	17.8	19.1	24.8	13.8	5.9	0.8	8.0	102.2
Multiyear Savings (\$)	3.0	17.0	19.0	21.0	28.0	16.0	7.0	1.0	1.0	113.0
Multiyear Savings (\$)	3.0	17.0	19.0	21.0	28.0	16.0	7.0	1.0	1.0	

**NOTE:** MYP Procurement Period is 9 years. Real Interest Rate for MYP Procurement Period of 9 years is 1.00966666%. (OMB Circular No. A-94, February 3, 2011)

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: CH-47 Helicopter SLEP (A05105)	

#### 1. Multiyear Procurement Description:

This package represents the multi-year procurement of 121 Renew aircraft (A05105) on a five-year multi-year 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 SLEP SSN A05105, along with the CH-47 New Build SSN A05008, is a subset of ASN A05101. Together, the New Build and Renew multi-year procurement will have a combined cost avoidance of \$373M, FY13-17.

#### 2. Benefit to the Government:

#### a. Substantial Savings:

(1) Based on a comparison of the estimated prices for single year contracts to the estimated price for one five-year multi-year, there is a cost avoidance of approximately \$260 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 multi-year. 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. Multi-year 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 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. Six production lots, totaling more than 131 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

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: CH-47 Helicopter SLEP (A05105)	

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 Estimate:

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 actual costs from production lots 1, 2, 3, 4, 5 and 6. The 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:

This MYP strategy has been structured to achieve significant cost avoidance and will eliminate the need to develop an annual plan on a yearly basis; one year of planning will replace five independent years of planning. This strategy maintains the capability to produce additional aircraft to maintain an industrial base necessary to meet the production requirements of current and future helicopter systems. Cost avoidance resulting from economic order quantities and independent planning result in benefit to industry and government.

	\$ in Millions	
Inflation	\$	25.000
Vendor Procurement	\$	118.000
Manufacturing	\$	39.000
Design/Engineering	\$	0.000
Tool Design	\$	0.000
Support Equipment	\$	0.000
Other	\$	78.000
Workload Savings	\$	0.000
Total	\$	260.000

Exhibit MYP-1, Multiyear Procurement Criteria	Date: February 2012
Appropriation / Budget Activity:	P-1 Item Nomenclature:
2031 Aircraft Procurement - Army / Aircraft (BA-01)	CH-47 Helicopter SLEP (A05105)

### 4. Advantages of the MYP:

A multi-year contract provides substantial cost avoidance of \$260 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 Global War on Terror 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 Renew multi-year procurement will have a combined cost avoidance of \$373M, FY13-17.

#### 5. <u>Impact on Defense Industrial Base:</u>

Implementation of this proposed MYP will yield a favorable impact on the industrial base. The stability afforded by the use of a multi-year 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 FY08-12 multi-year 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, multi-year contracting will produce acceptable supplier pricing due to the stable business base.

Production Capacity: The production capacity for the Prime Contractor is 4 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:

	<u>Annual</u>	<u>MultiYear</u>			
	<b>Contracts</b>		<b>Contract</b>		
Quantity	121		121		
Total Contract Price	\$ 2,807.000	\$	2,547.000		
Cancellation Ceiling (highest point)					
Funded		\$	0.000		
Unfunded		\$	0.000		
\$ Cost Avoidance Over Annual		\$	260.000		
% Cost Avoidance Over Annual			9.3 %		

P-1 Shopping List - Item No 20-6775A05101

Exhibit MYP-2 Total Program Fund PROCUREMENT		,			Date February 2012 P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)								
T ROOMEIMENT	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL		
Procurement Quantity		19	22	26	27	27					121		
Annual Procurement													
Gross Cost		631.0	719.0	824.0	856.0	899.0					3929.0		
Less PY Adv Procurement		(55.0)	(90.0)	(108.0)	(114.0)	(116.0)					(483.0		
Net Procurement (= P-1)		576.0	629.0	716.0	742.0	783.0					3446.0		
Plus CY Adv Procurement	55.0	90.0	108.0	114.0	116.0	39.0					522.0		
Weapon System Cost	55.0	666.0	737.0	830.0	858.0	822.0					3968.0		
Multiyear Procurement													
Gross Cost (P-1)		606.0	679.0	766.0	786.0	857.0					3694.0		
Less PY Adv Procurement		(55.0)	(83.0)	(98.0)	(102.0)	(102.0)					(440.0		
Net Procurement (= P-1)		551.0	596.0	668.0	684.0	755.0					3254.0		
Advance Procurement													
'For FY13	55.0										55.0		
'For FY14		83.0									83.0		
'For FY15			98.0								98.0		
'For FY16				102.0							102.0		
'For FY17					102.0						102.0		
Plus CY Adv Procurement	55.0	83.0	98.0	102.0	102.0						440.0		
Weapon System Cost	55.0	634.0	694.0	770.0	786.0	755.0					3,694.0		
MultiyearSavings (\$)		32.0	43.0	60.0	72.0	67.0					274.0		
Multiyear Savings (%) (total only)											7.0 %		
Cancellation Ceiling, Funded													
Cancellation Ceiling, Unfunded													
OUTLAYS													
Annual		73.0	395.0	636.0	764.0	818.0	736.0	346.0	99.0	28.0	3895.0		
Multiyear		70.0	375.0	601.0	712.0	754.0	676.0	318.0	91.0	26.0	3623.0		
Savings		3.0	20.0	35.0	52.0	64.0	60.0	28.0	8.0	2.0	272.0		

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

P-1 Shopping List - Item No 20-6775A05101

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-3 Total Contract Fund PROCUREMENT	mig i iaii (/ ii tivi i	/			Date February 2012 P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)									
TROCONLINEIVI	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL			
	2012						2010	2019	2020	2021				
Procurement Quantity		19	22	26	27	27					12			
Annual Procurement														
Gross Cost		425.0	500.0	601.0	635.0	646.0					2807.0			
Less PY Adv Procurement		(55.0)	(90.0)	(108.0)	(114.0)	(116.0)					(483.0			
Net Procurement (= P-1)		370.0	410.0	493.0	521.0	530.0					2324.0			
Plus CY Adv Procurement	55.0	90.0	108.0	114.0	116.0						483.0			
Contract Price	55.0	460.0	518.0	607.0	637.0	530.0					2807.0			
Multiyear Procurement														
Gross Cost (P-1)		401.0	463.0	547.0	569.0	567.0					2547.0			
Less PY Adv Procurement		(55.0)	(83.0)	(98.0)	(102.0)	(102.0)					(440.0			
Net Procurement (= P-1)		346.0	380.0	449.0	467.0	465.0					2107.0			
Advance Procurement														
'For FY13	55.0										55.0			
'For FY14		83.0									83.0			
'For FY15			98.0								98.0			
'For FY16				102.0							102.0			
'For FY17					102.0						102.0			
Plus CY Adv Procurement	55.0	83.0	98.0	102.0	102.0						440.0			
Contract Price	55.0	429.0	478.0	551.0	569.0	465.0					2,547.0			
MultiyearSavings (\$)		31.0	40.0	56.0	68.0	65.0					260.0			
Multiyear Savings (%) (total only)											9.3 9			
Cancellation Ceiling, Funded														
Cancellation Ceiling, Unfunded														
OUTLAYS														
Annual		51.0	274.0	448.0	550.0	591.0	507.0	232.0	67.0	19.0	2739.0			
Multiyear		47.0	255.0	414.0	503.0	531.0	450.0	206.0	59.0	17.0	2482.0			
Savings		4.0	19.0	34.0	47.0	60.0	57.0	26.0	8.0	2.0	257.0			

**NOTE:** FY 2012 Advanced Procurement (AP) funds will be executed prior to the award of the planned FY 2013 MYP contract. Subsequent to the planned FY 2013 MYP contract award, the FY 2012 AP funds will be incorporated in the FY 2013 MYP contract as a separate contract line item (CLIN).

P-1 Shopping List - Item No 20-6775A05101

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-4 Present Value A	nalysis (ARMY)			Date	Februar	ry 2012						
PROCUREMENT				P-1 L	P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)							
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL		
Annual Proposal												
Then Year Cost	51.0	274.0	448.0	550.0	591.0	507.0	232.0	67.0	19.0	2739.0		
Constant Year Cost	51.0	269.4	433.1	522.6	551.6	464.9	209.0	59.3	16.5	2577.4		
Present Value	50.3	263.0	418.8	500.4	523.2	436.7	194.5	54.6	15.1	2456.6		
Multiyear Proposal												
Then Year Cost	47.0	255.0	414.0	503.0	531.0	450.0	206.0	59.0	17.0	2482.0		
Constant Year Cost	47.0	250.8	400.2	477.9	495.6	412.6	185.6	52.2	14.8	2336.7		
Present Value	46.3	244.8	387.0	457.7	470.1	387.6	172.7	48.1	13.5	2227.7		
Difference												
Then Year Cost	4.0	19.0	34.0	47.0	60.0	57.0	26.0	8.0	2.0	257.0		
Constant Year Cost	4.0	18.7	32.9	44.7	56.0	52.3	23.4	7.1	1.7	240.7		
Present Value	3.9	18.2	31.8	42.8	53.1	49.1	21.8	6.5	1.6	228.8		
Multiyear Savings (\$)	4.0	19.0	34.0	47.0	60.0	57.0	26.0	8.0	2.0	257.0		

**NOTE:** MYP Procurement Period is 9 years. Real Interest Rate for MYP Procurement Period of 9 years is 1.00966666%. (OMB Circular No. A-94, February 3, 2011)

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: UH60M/HH60M and MH60R/MH60S	

#### 1. Multiyear Procurement Description:

This proposed Multiyear Procurement (MYP) covers the purchase of 318 UH-60M/HH-60M BLACK HAWK aircraft and 193 Navy MH-60 helicopter airframes in FY 2012 through FY 2016 under a single, five year fixed price type contract. The MYP strategy is structured to achieve \$850.3 Million (TY\$) in cost savings over the five year period with \$502.9M realized in the Army Aircraft Procurement Appropriation and \$347.4M in the Navy Aircraft Procurement Appropriation. This proposed Joint Service multiyear contract for the procurement of Army UH-60M/HH-60M aircraft and Navy MH-60R/S aircraft follows a currently executing (FY 2007 through FY 2011) Joint Service MYP between the Army, Navy, and Sikorsky Aircraft Corporation for H-60 helicopters. The UH-60M/HH-60M,MH-60S, and MH-60R aircraft being procured on the proposed multiyear contract are essentially the same configuration as those being procured on the current FY07-11 multiyear contract. The MYP will include a Variation in Quantity Clause allowing for minor fluctuation of aircraft quantity and provide baseline pricing for potential Foreign Military Sales. The U.S. Army and Navy met SECDEF certification requirements on March 1, 2011.

#### 2. Benefit to the Government:

### a. Substantial Savings:

Implementation of this proposed MYP will yield significant opportunity for cost savings through the term of the contract. Specifically, cost savings for FY 2012 through FY 2016 attributable to this MYP strategy is estimated at \$850.3M (TY\$). Of this cost savings, \$502.9M is attributed to the UH-60M/HH-60M, \$258.9M to the MH-60R and \$88.5M to the MH-60S. This level of savings is based on a comparison of the prices for five single year contracts to the price for one five year multiyear contract. The budgets of all three aircraft programs reflect the pricing of the estimated multiyear alternative.

Administrative costs are reduced since there is only one proposal, negotiation and purchase order instead of a string of five single year procurement actions. These costs are reduced to the prime contractor, since they only have one contract to negotiate with the Government vice five. Prime contractor costs will also be reduced as subcontracts at all tiers will only be entered into once. Since some suppliers include proposal preparation and negotiation as a direct charge to the purchase order, there will be a dollar for dollar reduction in these cases and the cost will not get lost in overhead rates. Another administrative reduction is realized in production planning. Cost savings will be gained as production line administrative processes will only be performed once, rather than five times under single year procurement. Additionally, the workload on the Government's acquisition workforce will be reduced via the MYP, resulting in greater efficiency in other H-60 acquisition operations.

The prime contractor sets the standard for the vendors that support his contract commitments and, as new processes and innovations are implemented at the prime facility, the vendors are encouraged to adopt those elements that enhance their performance. The stability of long term commitments supported by multiyear contracts provides the collateral required to support their financial investments.

Many electronics components have minimum buy quantities which may not be met under single year procurements, driving up unit costs so that total cost is artificially high. Multiyear procurement quantities will allow the prime contractor and subcontractors at all tiers to exceed minimum order quantities and capture cost 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 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

P-1 Shopping List - Item No 20-6772AA0005

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: UH60M/HH60M and MH60R/MH60S	
2031 Alician Floculement - Aliny / Alician (BA-01)	CHOOM/IIIIOOM and WIIIOOK/WIIIOOS	

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 and obsolescence risks and costs are expected to be minimized.

#### **b.** Stability of Requirement:

The UH-60M/HH-60M BLACK HAWK is one of the core aviation programs and is approved through the current Five Year Defense Program (FYDP). The minimum need for the UH-60M/HH-60M BLACK HAWK is not expected to decrease during the contemplated contract period, as the requirement for over 1800 replacement aircraft will support production well into the 2020s. The requirement for both the MH-60R and the MH-60S aircraft is well documented within the Navy. The Navy's total MH-60 requirement is set forth in the Navy Aviation Plan 2030. Both the MH-60R and the MH-60S are key components in the Navy's investment strategy for long range recapitalization and modernization requirements needed to support the tenets of the maritime strategy. The MH-60R Operational Requirements Document (ORD) was approved by the Joint Requirements Oversight Council (JROC) in August 1992 and the latest revision which updated the document to a Capability Production Document was approved in November 2005. The MH-60S Operational Requirements Document (ORD) was approved by the JROC in February 2008.

### c. Stability of Funding:

The funding for the UH-60M/HH-60M, MH-60S and MH-60R is stable. The Army has consistently included funding for the UH-60 BLACK HAWK in its budget submissions. Congressional action has provided funding for production in excess of the President's Budget request in each of the last nine years. The Service Acquisition Executive (SAE) conducted a review of the MH-60R program in March 2006 and directed the program to proceed to full rate production. The SAE conducted a review of the MH-60S program in August 2002 and directed the program to proceed to full rate production. Independent cost estimates were conducted to support both of these milestone decisions. Funding support for the MH-60S has consistently been shown by both the Navy and Congress.

## d. Stable Configuration:

The UH-60M/HH-60M and the MH-60R airframes will be in its sixth year of full rate production in FY 2012 and the MH-60S airframe will be in its eleventh year of full rate production in FY 2012. All aircraft will be produced in basically the same configurations that have been utilized in previous years. There have been some configuration changes during that period to allow for changing mission requirements or to improve on the producibility or reliability of the system, The Army portion of the contract will procure two separate models-the base UH-60M as well as a MEDEVAC model designated as the HH-60M. The Navy portion of the proposed contract will procure two distinct airframe configurations; the MH-60R and the MH-60S. Commonality between the configurations is substantial.

#### e. Realistic Cost Estimate:

The procurement cost estimate for the UH-60M/HH-60M, MH-60R and MH-60S airframe is realistic. The estimates are based on many years of historical cost data/actuals and the most accurate cost data to date, as well as data provided by the contractor in the Spring/Summer 2010. The contract is a five year Firm Fixed Price contract.

P-1 Shopping List - Item No 20-6772AA0005

Exhibit MYP-1, Multiyear Procurement Criteria		Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army / Aircraft (BA-01)	P-1 Item Nomenclature: UH60M/HH60M and MH60R/MH60S	

#### f. National Security:

As a principle element of the Defense Planning Guidance (DPG), the Department of the Army and Navy developed its Transformation Roadmaps. The Roadmap describes the key army and naval concepts, capabilities, initiatives, processes and programs that will guide the transformation efforts of the Army and Navy. Both Army and Naval transformation will support joint transformation by delivering new military capabilities that will greatly expand the sovereign options available to joint force commanders to project power, assure access and protect and advance America's interest worldwide in the face of emergent threat technologies and strategies. The Black Hawk is the Army's primary helicopter for air assault, air cavalry and aeromedical evacuation units. Modified Black Hawks also fulfill command and control, electronic warfare and special operations roles. The Black Hawk has enhanced the overall mobility of the Army because of its dramatic improvements in troop capacity and cargo lift capability troops can be transported faster and in most weather conditions. One of these concepts that MH-60R/S is a part of is Sea Shield. Sea Shield permits the joint force to operate effectively despite adversary efforts to deny theater access U.S. forces. It achieves these goals by exploiting global sea control to defeat area denial threats including aircraft, missiles, small littoral surface combatants, mines and submarines. Concepts and capabilities are being developed to counter the threats from quiet diesel submarines operating near the coast and mines in and beyond the surf zone. The MH-60R/S aircraft are key components in providing these capabilities. The H-60M and MH-60R/S systems directly support five of the nine joint capability areas to include force application, battle space awareness, protection, building partnerships and logistics.

## 3. Source of Savings:

This MYP strategy has been structured to achieve significant cost avoidance and will eliminate the need to develop an annual plan on a yearly basis; one year of planning will replace five independent years of planning. This strategy maintains the capability to produce additional aircraft to maintain an industrial base necessary to meet the production requirements of current and future helicopter systems. Cost avoidance resulting from economic order quantities and independent planning result in benefit to industry and government.

(\$Millions)

ARMY NAVY DoD
Inflation 25.3 15.9 41.2
Material 100.6 121.2 221.8
Labor/Rates 311.0 158.9 469.9
Fee 66.0 51.4 117.4

TOTAL COST AVOIDANCE 502.9 347.4 850.3

\$ in Millions

Inflation \$ 41.200

P-1 Shopping List - Item No 20-6772AA0005

Exhibit MYP-1, Mu	ltiyea	r Procure	ent Criteria  Date: February 2012
Appropriation / Budget Activity: 2031 Aircraft Procurement - Army /	Aircraf	t (BA-01)	P-1 Item Nomenclature: UH60M/HH60M and MH60R/MH60S
Vendor Procurement	\$	0.000	
Manufacturing	\$	221.800	
Design/Engineering	\$	0.000	
Tool Design	\$	0.000	
Support Equipment	\$	0.000	
Other	\$	117.400	
Workload Savings	\$	469.900	
Total	\$	850.300	

## 4. Advantages of the MYP:

This MYP strategy has been structured to achieve significant cost savings (\$850.3M) and will eliminate the need to develop an annual plan on a yearly basis; one year of planning will replace five independent years of planning. The strategy maintains the capability to produce additional aircraft to maintain an industrial base necessary to meet the production requirements of current and future helicopter systems. Cost savings resulting from economic order quantities and independent planning result in benefit to industry and government.

#### 5. Impact on Defense Industrial Base:

Implementation of this proposed MYP will also yield a favorable impact on the industrial base. The stability afforded by the use of multiyear procurement will allow the prime contractor to enter into long term agreements with suppliers, at every tier, which provide substantial cost savings. Such long term agreements incentivize both the prime and the subcontractors to invest in process improvements which yield long term benefits in terms of product quality and cost. The stability of the prime multiyear contract will also foster improved competition at the subcontractor level, as the offer of a longer term business arrangement will encourage more aggressive pursuit of a contract award. The contractor and the subcontractor will be at a reduced risk when implementing production process improvements, facility improvements, tooling design improvements and fabrication process improvements. The ability for the Government and industry to enter into a long-term agreement will allow industry the opportunity to place capital investments upfront, which reduces the overall cost and improves the quality of the Army H-60 as well as the Navy MH-60.

## **6. Multiyear Procurement Summary:**

	<u>Annual</u>	<b>MultiYear</b>
	<b>Contracts</b>	<b>Contract</b>
Quantity	318	318
Total Contract Price	\$ 5,139.400	\$ 4,636.500
Cancellation Ceiling (highest point)		
Funded		\$ 0.000
Unfunded		\$ 0.000
\$ Cost Avoidance Over Annual		\$ 502.900
% Cost Avoidance Over Annual		9.8 %

Exhibit MYP-2 Total Program Fund	ding Plan (ARM	1Y)			Da		bruary 201						
PROCUREMENT					P-1	1 Line Iter	n Nomeno	clature - l	JH60M/HI	H60M and	MH60R/	MH60S (AR	MY)
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Procurement Quantity		81	59	57	56	65							318
Annual Procurement													
Gross Cost		1712.9	1392.3	1297.8	1314.7	1523.0							7240.7
Less PY Adv Procurement		(100.0)	(106.6)	(78.4)	(78.3)	(92.5)							(455.8
Net Procurement (= P-1)		1612.9	1285.7	1219.4	1236.4	1430.5							6784.9
Plus CY Adv Procurement	100.0	106.6	78.4	78.3	92.5								455.8
Weapon System Cost	100.0	1719.5	1364.1	1297.7	1328.9	1430.5							7240.7
Multiyear Procurement													
Gross Cost (P-1)		1597.7	1305.0	1204.1	1220.9	1410.1							6737.8
Less PY Adv Procurement		(100.0)	(197.9)	(108.2)	(119.6)	(137.4)							(663.1
Net Procurement (= P-1)		1497.7	1107.1	1095.9	1101.3	1272.7							6074.7
Advance Procurement													
'For FY12	100.0												100.0
'For FY13		197.9											197.9
'For FY14		1.4	106.8										108.2
'For FY15		0.4	6.9	112.3									119.6
'For FY16	400.0	0.1	1.4	3.7	132.2								137.4
Plus CY Adv Procurement	100.0	199.8	115.1	116.0	132.2								663.1
Weapon System Cost	100.0	1697.5	1222.2	1211.9	1233.5	1272.7							6737.8
MultiyearSavings (\$)		22.0	141.9	85.8	95.4	157.8							502.9
Multiyear Savings (%) (total only)													6.9 %
Cancellation Ceiling, Funded													
Cancellation Ceiling, Unfunded													
OUTLAYS													
Annual	10.7	223.8	856.3	1209.4	1330.8	1318.6	1231.3	691.4	277.4	60.8	30.2		7240.7
Multiyear	10.7	221.5	832.4	1137.5	1240.6	1216.1	1123.3	624.4	249.2	55.2	26.9		6737.8
Savings		2.3	23.9	71.9	90.2	102.5	108.0	67.0	28.2	5.6	3.3		502.9

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-3 Total Contract Fund	ding Plan (ARM	1Y)			Da		bruary 201							
PROCUREMENT		,			P-1	P-1 Line Item Nomenclature - UH60M/HH60M and MH60R/MH60S (ARMY)								
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL	
Procurement Quantity		81	59	57	56	65							318	
Annual Procurement														
Gross Cost		1177.6	890.7	957.8	959.2	1154.1							5139.4	
Less PY Adv Procurement		(52.2)											(52.2	
Net Procurement (= P-1)		1125.4	890.7	957.8	959.2	1154.1							5087.2	
Plus CY Adv Procurement	52.2												52.2	
Contract Price	52.2	1125.4	890.7	957.8	959.2	1154.1							5139.4	
Multiyear Procurement														
Gross Cost (P-1)		1062.4	803.4	864.1	865.4	1041.2							4636.5	
Less PY Adv Procurement		(52.2)	(91.3)	(29.8)	(41.3)	(44.9)							(259.5	
Net Procurement (= P-1)		1010.2	712.1	834.3	824.1	996.3							4377.0	
Advance Procurement														
'For FY12	52.2												52.2	
'For FY13		91.3											91.3	
'For FY14		1.4	28.4										29.8	
'For FY15		0.4	6.9	34.0									41.3	
'For FY16		0.1	1.4	3.7	39.7								44.9	
Plus CY Adv Procurement	52.2	93.2	36.7	37.7	39.7								259.5	
Contract Price	52.2	1103.4	748.8	872.0	863.8	996.3							4636.5	
MultiyearSavings (\$)		22.0	141.9	85.8	95.4	157.8							502.9	
Multiyear Savings (%) (total only)													9.8 %	
Cancellation Ceiling, Funded														
Cancellation Ceiling, Unfunded														
OUTLAYS														
Annual	5.6	141.2	556.2	800.3	922.6	953.6	935.5	534.0	219.3	46.7	24.4		5139.4	
Multiyear	5.6	138.9	532.3	728.4	832.4	851.1	827.5	467.0	191.1	41.1	21.1		4636.5	
Savings		2.3	23.9	71.9	90.2	102.5	108.0	67.0	28.2	5.6	3.3		502.9	

<sup>\*</sup> Numbers may not add due to rounding.

Exhibit MYP-4 Present Value Anal	Da	Date February 2012											
PROCUREMENT						P-1 Line Item Nomenclature - UH60M/HH60M and MH60R/MH60S (ARMY)							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Annual Proposal													
Then Year Cost	5.6	141.2	556.2	800.3	922.6	953.6	935.5	534.0	219.3	46.7	24.4		5139.4
Constant Year Cost	5.6	138.9	537.8	760.9	862.5	876.6	845.6	474.6	191.7	40.1	20.6		4755.0
Present Value	5.6	136.0	519.7	725.3	810.9	813.0	773.5	428.3	170.6	35.2	17.9		4435.9
Multiyear Proposal													
Then Year Cost	5.6	138.9	532.3	728.4	832.4	851.1	827.5	467.0	191.1	41.1	21.1		4636.5
Constant Year Cost	5.6	136.6	514.7	692.6	778.2	782.4	748.0	415.1	167.0	35.3	17.8		4293.3
Present Value	5.6	133.8	497.4	660.1	731.7	725.6	684.2	374.5	148.6	31.0	15.4		4007.9
Difference													
Then Year Cost		2.3	23.9	71.9	90.2	102.5	108.0	67.0	28.2	5.6	3.3		502.9
Constant Year Cost		2.3	23.1	68.4	84.3	94.2	97.6	59.5	24.6	4.8	2.8		461.7
Present Value		2.2	22.3	65.2	79.3	87.4	89.3	53.7	21.9	4.2	2.4		428.0
Multiyear Savings (\$)		2.3	23.9	71.9	90.2	102.5	108.0	67.0	28.2	5.6	3.3		502.9

**NOTE:** MYP Procurement Period is 11 years. Real Interest Rate for MYP Procurement Period of 11 years is 1.01160000%. (OMB Circular No. A-94, February 3, 2011)

<sup>\*</sup> Numbers may not add due to rounding.