

UNCLASSIFIED

# DEPARTMENT OF DEFENSE

Fiscal Year 2013 President's Budget Submission

February 2012



ARMY

*Justification Book*

**AIRCRAFT PROCUREMENT, ARMY**

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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**

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APPROPRIATION SUMMARY

APPROPRIATION

Aircraft Procurement, Army

**TOTAL PROCUREMENT PROGRAM**

DOLLARS IN THOUSANDS

FY2011	FY2012	FY2013	FY2013 OCO	FY2013 Total
8,046,087	6,497,715	5,853,729	486,200	6,339,929
<b>8,046,087</b>	<b>6,497,715</b>	<b>5,853,729</b>	<b>486,200</b>	<b>6,339,929</b>

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APPROPRIATION Aircraft Procurement, Army		DOLLARS IN THOUSANDS					
ACTIVITY		FY2011	FY2012	FY2013	FY2013 OCO	FY2013 Total	PAGE
01	Aircraft	4,635,677	4,726,042	4,201,026	486,200	4,687,226	4
02	Modification of aircraft	2,744,779	1,330,011	1,276,743		1,276,743	6
03	Spares and repair parts	10,398					7
04	Support equipment and facilities	655,233	441,662	375,960		375,960	8
<b>APPROPRIATION TOTALS</b>		<b>8,046,087</b>	<b>6,497,715</b>	<b>5,853,729</b>	<b>486,200</b>	<b>6,339,929</b>	

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

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APPROPRIATION Aircraft Procurement, Army		ACTIVITY 01 Aircraft	DOLLARS IN THOUSANDS									
LINE NO	ITEM NOMENCLATURE	ID	FY 2011		FY 2012		FY 2013		FY 2013 OCO		FY 2013 TOTAL	
			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) Less: Advance Procurement (PY)	A	49	(1,403,980)	47	(1,305,718)	38	(1,196,992)	6	(231,300)	44	(1,428,292)
				(-50,520)		(-66,358)		(-120,956)				(-120,956)
				<u>1,353,460</u>		<u>1,239,360</u>		<u>1,076,036</u>		<u>231,300</u>		<u>1,307,336</u>
16	CH-47 Helicopter (A05101) Advance Procurement (CY)			66,358		120,956		83,346				83,346
	<i>SUB-ACTIVITY TOTAL</i>			<u>4,037,884</u>		<u>4,074,610</u>		<u>3,638,501</u>		<u>486,200</u>		<u>4,124,701</u>
	<b>ACTIVITY TOTAL</b>			<u>4,635,677</u>		<u>4,726,042</u>		<u>4,201,026</u>		<u>486,200</u>		<u>4,687,226</u>

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APPROPRIATION Aircraft Procurement, Army		ACTIVITY 02 Modification of aircraft	DOLLARS IN THOUSANDS									
LINE NO	ITEM NOMENCLATURE	ID	FY 2011		FY 2012		FY 2013		FY 2013 OCO		FY 2013 TOTAL	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<i>Modifications Of Aircraft</i>												
17	C12 AIRCRAFT MODS (A01234)	A		122,340								
18	MQ-1 Payload - UAS (A00020)	A		83,556	146,983		231,508					231,508
19	MQ-1 Weaponization - UAS (A00025)	A		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)	A		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)		9	202,437	92,552		192,484					192,484
28	Airborne Avionics (AA0700)			209,231								
29	Network And Mission Plan (AA0712)	A			136,432		190,789					190,789
30	Comms, Nav Surveillance (AA0723)	A			117,855		133,191					133,191
31	GATM Rollup (AA0711)	A		97,591	105,519		87,280					87,280
32	RQ-7 UAV MODS (A00018)	A		548,998	165,139		104,339					104,339
<b>SUB-ACTIVITY TOTAL</b>				<u>2,744,779</u>	<u>1,330,011</u>		<u>1,276,743</u>					<u>1,276,743</u>
<b>ACTIVITY TOTAL</b>				<u>2,744,779</u>	<u>1,330,011</u>		<u>1,276,743</u>					<u>1,276,743</u>

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APPROPRIATION Aircraft Procurement, Army		ACTIVITY 03 Spares and repair parts	DOLLARS IN THOUSANDS									
LINE NO	ITEM NOMENCLATURE	ID	FY 2011		FY 2012		FY 2013		FY 2013 OCO		FY 2013 TOTAL	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	<i>Spares and Repair Parts</i>											
33	Spare Parts (AIR) (AA0950)			10,398								
	<i>SUB-ACTIVITY TOTAL</i>			<u>10,398</u>								
	<b>ACTIVITY TOTAL</b>			<u>10,398</u>		<u>0</u>		<u>0</u>				<u>0</u>



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APPROPRIATION Aircraft Procurement, Army		ACTIVITY 04 Support equipment and facilities	DOLLARS IN THOUSANDS									
LINE NO	ITEM NOMENCLATURE	ID	FY 2011		FY 2012		FY 2013		FY 2013 OCO		FY 2013 TOTAL	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<i>Ground Support Avionics</i>												
34	Aircraft Survivability Equipment (AZ3504)			24,338		35,993		34,037				34,037
35	Survivability CM (AZ3507)			345,783								
36	CMWS (AZ3517)	A				104,251		127,751				127,751
	<i>SUB-ACTIVITY TOTAL</i>			<u>370,121</u>		<u>140,244</u>		<u>161,788</u>				<u>161,788</u>
<i>Other Support</i>												
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
	<i>SUB-ACTIVITY TOTAL</i>			<u>285,112</u>		<u>301,418</u>		<u>214,172</u>				<u>214,172</u>
	<b>ACTIVITY TOTAL</b>			<u>655,233</u>		<u>441,662</u>		<u>375,960</u>				<u>375,960</u>
	<b>APPROPRIATION TOTAL</b>			<u>8,046,087</u>		<u>6,497,715</u>		<u>5,853,729</u>		<u>486,200</u>		<u>6,339,929</u>

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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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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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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	C-12 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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AZ3504	34	8	Aircraft Survivability Equipment (AZ3504)
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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
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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 1 : Aircraft / BSA 10 : Fixed Wing **P-1 Line Item Nomenclature:** A11300 - Utility F/W Aircraft

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

Resource Summary	Prior Years	FY 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)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	7,286.000	9,319.500	-	9,319.500	15,730.000	16,166.000	27,068.000	-	0.000	46.277

**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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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	
<b>Total Gross/Weapon System Cost</b>				<b>250.148</b>			-			<b>14.572</b>			<b>18.639</b>			-			<b>18.639</b>	

\*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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<b>Exhibit P-5, Cost Analysis:</b> PB 2013 Army		Date: February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A11300 - Utility F/W Aircraft	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A11300 - Utility F/W Aircraft

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	-	2	2	-	2
Gross/Weapon System Cost (\$ in Millions)		-	-	14.572	18.639	-	18.639
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	-	14.572	18.639	-	18.639
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	-	14.572	18.639	-	18.639

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

Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	7,286.000	9,319.500	-	9,319.500

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Fixed Wing Aircraft Procurement		-	-	-	-	-	0.000	6,886.000	2	13.772	7,086.000	2	14.172	-	-	0.000	7,086.000	2	14.172
Other Costs		-	-	-	-	-	0.000	-	-	0.800	-	-	4.467	-	-	0.000	-	-	4.467
<i>Total Recurring Cost</i>				<i>0.000</i>			<i>0.000</i>			<i>14.572</i>			<i>18.639</i>			<i>0.000</i>			<i>18.639</i>
<i>Total Flyaway Cost</i>				<i>0.000</i>			<i>0.000</i>			<i>14.572</i>			<i>18.639</i>			<i>0.000</i>			<i>18.639</i>
<b>Gross Weapon System Cost</b>				-			-			<b>14.572</b>			<b>18.639</b>			-			<b>18.639</b>

Remarks:

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A11300 - Utility F/W Aircraft	<b>Item Nomenclature:</b> A11300 - Utility F/W Aircraft
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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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**Exhibit P-21, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 1 / BSA 10 **P-1 Line Item Nomenclature:** A11300 - Utility F/W Aircraft **Item Nomenclature:** A11300 - Utility F/W Aircraft

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013										Fiscal Year 2014													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Fixed Wing Aircraft Procurement																														
	1	2012	ARMY	2	0	2	A	-	-	-	-	-	-	-	-	1	-	-	1											
	1	2013	ARMY <sup>(1)</sup>	2	0	2	-	-	-	A	-	-	-	-	-	-	-	-	-	1	-	-	1							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Hawker Beech - Wichita KS	1	4	4	0	12	8	20	0	3	8	11

**Remarks:**  
 ‡ 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.

(1)BASE

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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 1 : Aircraft / BSA 10 : Fixed Wing **P-1 Line Item Nomenclature:** A02700 - C-12 CARGO AIRPLANE

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	2	-	-	-	-	-	-	-	-	0	2
Gross/Weapon System Cost (\$ in Millions)	216.227	34.660	-	-	-	-	-	-	-	-	0.000	250.887
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	216.227	34.660	-	-	-	-	-	-	-	-	0.000	250.887
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	216.227	34.660	-	-	-	-	-	-	-	-	0.000	250.887

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

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

**Description:**

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 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 sight 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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A02700 - C-12 CARGO AIRPLANE	P5, P5A, P21		-	-	-	-	2	34.660	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>216.227</b>			<b>34.660</b>			-			-			-			-

\*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:**

No FY13 Base or OCO procurement dollars requested.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2013 Army		Date: February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A02700 - C-12 CARGO AIRPLANE

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	2	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	34.660	-	-	-	-
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	34.660	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	34.660	-	-	-	-

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

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

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
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
<i>Total Recurring Cost</i>				<i>0.000</i>			<i>34.660</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>
<i>Total Flyaway Cost</i>				<i>0.000</i>			<i>34.660</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>
<b>Gross Weapon System Cost</b>				-			<b>34.660</b>			-			-			-			-

Remarks:

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE	<b>Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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."

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE	<b>Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE
--	--	---

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2011										Fiscal Year 2012													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup> QTY	PROC TO 1 OCT	ACCEP PRIOR AS OF 1 OCT	BAL DUE OF 1 OCT	Calendar Year 2011										Calendar Year 2012													
							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
LIDAR Aircraft Procurement																														
	1	2011	ARMY	2	0	2	-	-	-	-	-	-	-	-	A -	2														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U 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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE	<b>Item Nomenclature:</b> A02700 - C-12 CARGO AIRPLANE

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	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.  
 ‡ 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.

**UNCLASSIFIED**

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

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

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

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)	-	29	29	19	-	19	15	15	-	-	0
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 Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>				<b>439.650</b>			<b>455.851</b>			<b>550.798</b>			<b>518.088</b>			-				<b>518.088</b>

\*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.



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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 10 : Fixed Wing		<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0307204A, 0305219A
All COMPO 1 Active		

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A00005 - MQ-1 UAV

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	29	29	19	-	19
Gross/Weapon System Cost (\$ in Millions)		-	455.851	550.798	518.088	-	518.088
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	455.851	550.798	518.088	-	518.088
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	455.851	550.798	518.088	-	518.088

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

Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	15,719.000	18,993.035	27,267.790	-	27,267.790

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
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	100.429
Ground Control Station (GCS)		-	-	-	-	-	48.037	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Portable Ground Control Station (PGCS)		-	-	-	-	-	0.000	772.000	7	5.403	942.000	4	3.768	-	-	0.000	942.000	4	3.768
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	32.478
Ground Data Terminal (GDT)		-	-	-	-	-	0.000	2,353.000	14	32.940	2,871.000	8	22.969	-	-	0.000	2,871.000	8	22.969
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	8.137
Automatic Take-Off & Landing Sys (ATLS)		-	-	-	-	-	0.000	1,258.000	7	8.803	1,535.000	4	6.138	-	-	0.000	1,535.000	4	6.138
Satellite Ground Data Terminal (SGDT)		-	-	-	-	-	0.000	2,415.000	7	16.903	2,947.000	4	11.786	-	-	0.000	2,947.000	4	11.786
Ground Support Equipment Kits (GSE)		-	-	-	-	-	0.000	2,444.000	7	17.105	2,974.000	4	11.896	-	-	0.000	2,974.000	4	11.896
Other Hardware		-	-	-	-	-	167.771	-	-	29.172	-	-	30.149	-	-	0.000	-	-	30.149
Engineering Change Order		-	-	-	-	-	13.901	-	-	6.067	-	-	15.830	-	-	0.000	-	-	15.830
Non-Recurring Production		-	-	-	-	-	0.000	-	-	15.318	-	-	22.700	-	-	0.000	-	-	22.700
Initial Spares		-	-	-	-	-	41.624	-	-	94.983	-	-	66.231	-	-	0.000	-	-	66.231

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>												<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10						<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV						<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A00005 - MQ-1 UAV					

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Government Furnished Equipment (GFE)		-	-	-	-	-	13.539	-	-	17.635	-	-	11.775	-	-	0.000	-	-	11.775
Program Management		-	-	-	-	-	6.626	-	-	20.227	-	-	20.569	-	-	0.000	-	-	20.569
Test and Evaluation		-	-	-	-	-	8.464	-	-	17.968	-	-	18.746	-	-	0.000	-	-	18.746
Transportation		-	-	-	-	-	0.044	-	-	0.030	-	-	0.046	-	-	0.000	-	-	0.046
Operational Site Activation		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Government Agencies		-	-	-	-	-	10.645	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Software		-	-	-	-	-	10.018	-	-	16.810	-	-	13.956	-	-	0.000	-	-	13.956
Training Devices		-	-	-	-	-	17.843	-	-	42.346	-	-	45.422	-	-	0.000	-	-	45.422
NET Training		-	-	-	-	-	0.000	-	-	7.175	-	-	21.888	-	-	0.000	-	-	21.888
Support Equipment (Maint Shelter)		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Modifications		-	-	-	-	-	0.000	-	-	10.158	-	-	15.494	-	-	0.000	-	-	15.494
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	-	-	37.681
<i>Total Recurring Cost</i>				0.000			455.851			550.798			518.088			0.000			518.088
<i>Total Flyaway Cost</i>				0.000			455.851			550.798			518.088			0.000			518.088
<b>Gross Weapon System Cost</b>				-			<b>455.851</b>			<b>550.798</b>			<b>518.088</b>			-			<b>518.088</b>

Remarks:

**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV	<b>Item Nomenclature:</b> A00005 - MQ-1 UAV
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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	AMCOM	Apr 2013	Jan 2015	19	5,286.000	Y		

**Remarks:**

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule: 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:** A00005 - MQ-1 UAV

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2012											Fiscal Year 2013													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012											Calendar Year 2013											B A L		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
Aircraft																															
	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	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	
	1	2013	ARMY <sup>(1)</sup>	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	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	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:** 2031A / BA 1 / BSA 10 **P-1 Line Item Nomenclature:** A00005 - MQ-1 UAV **Item Nomenclature:** A00005 - MQ-1 UAV

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014													Fiscal Year 2015											
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Aircraft																															
	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 <sup>(1)</sup>	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, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV	<b>Item Nomenclature:</b> A00005 - MQ-1 UAV
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016										Fiscal Year 2017													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017										B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Aircraft																														
	1	2010	ARMY	26	26	0																								
	1	2011	ARMY	29	29	0																								
	1	2012	ARMY	29	29	0																								
	1	2013	ARMY <sup>(1)</sup>	19	16	3	1	1	1																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00005 - MQ-1 UAV	<b>Item Nomenclature:</b> A00005 - MQ-1 UAV

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	GENERAL ATOMICS / ASI - SAN DIEGO	12	36	120	8	5	21	26	8	5	21	26

**Remarks:**  
 ‡ 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.  
 (1)BASE



**UNCLASSIFIED**

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

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

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

Resource Summary	Prior	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To	Total
	Years										Complete	
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	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).

Secondary 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

**UNCLASSIFIED**

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

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

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>					<b>84.340</b>			<b>37.467</b>			<b>86.062</b>			<b>25.798</b>			-			<b>25.798</b>

\*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 \$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 Gimballed Payloads.

**UNCLASSIFIED**

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

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	312	900	234	-	234
Gross/Weapon System Cost (\$ in Millions)		-	37.467	86.062	25.798	-	25.798
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	37.467	86.062	25.798	-	25.798
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	37.467	86.062	25.798	-	25.798

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

Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	120.087	95.624	110.248	-	110.248

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total 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
<b>Total Recurring Cost</b>				0.000			37.467			86.062			25.798			0.000			25.798
<b>Total Flyaway Cost</b>				0.000			37.467			86.062			25.798			0.000			25.798
<b>Gross Weapon System Cost</b>				-			37.467			86.062			25.798			-			25.798

**UNCLASSIFIED**

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

<b>Remarks:</b>						
<b>Secondary Distribution</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
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

**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00010 - RQ-11 (RAVEN)	<b>Item Nomenclature:</b> A00010 - RQ-11 (RAVEN)
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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		

**Remarks:**  
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.

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule: 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:** A00010 - RQ-11 (RAVEN)

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2012											Fiscal Year 2013												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012											Calendar Year 2013												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Air Vehicles																														
	1	2011	ARMY	312	0	312	-	-	A -	39	39	39	39	39	39	39														
	1	2012	ARMY	900	0	900	-	-	-	-	-	-	A -	-	113	113	113	113	113	113	113	113	109							
	1	2013	ARMY <sup>(1)</sup>	234	0	234	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	30	30	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	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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00010 - RQ-11 (RAVEN)	<b>Item Nomenclature:</b> A00010 - RQ-11 (RAVEN)

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	AERO VIRONMENT - SIMI VALLEY	100	750	1500	0	3	4	7	0	3	2	5

**Remarks:**  
 ‡ 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.  
 (1)BASE

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 10 : Fixed Wing **P-1 Line Item Nomenclature:**  
A00015 - BCT Unmanned Aerial Veh (UAVS) Incr 1

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

Brigade Combat Team Unmanned Aerial Vehicle (UAVS) Increment 1

	Secondary 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.



**UNCLASSIFIED**

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

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

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

Resource Summary	Prior Years	FY 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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	0.600	-	-	-	-	-	-	-	-	-	0.000	0.600
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	6,019.148	6,070.880	6,420.897	7,999.500	-	7,999.500	8,371.419	9,848.700	-	-	0.000	14.262

**Description:**

The Light Utility Helicopter, UH-72A LAKOTA will provide general aviation support for Continental United States (CONUS) based Table of Distribution and Allowance (TDA) and Table of Organization and Equipment (TOE) aviation units in the active and reserve components. The UH-72A platform will provide the flexibility to respond to Homeland Security (HLS) requirements, conduct civil search and rescue operations, support damage assessment, support test and training centers, perform generating force missions, augment the HH-60 Medical Evacuation (MEDEVAC) aircraft, and provide support to CONUS counterdrug operations. The UH-72A will conduct general support utility helicopter missions and execute tasks as part of an integrated effort with other joint services, government agencies, and non-governmental organizations. The UH-72A provides time-sensitive transport of supplies or key personnel, air mobility to assist civil authorities through the execution of search and rescue or disaster relief operations, advanced warning/detection of external threats to include threats to our borders, augmentation of air ambulance capabilities, and limited command and control operations in the conduct of HLS. The LUH program is currently in full rate production.

Secondary Distribution		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	11	1	15	-	15
	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

Item Schedule	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total				
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

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

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

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Total Gross/Weapon System Cost</b>					1,069.470		303.544			250.415			271.983			-			271.983	

\*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 \$271.983 million support aircraft procurement, fielding, engineering services, training, program office support, and modifications for 34 UH-72A aircraft.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

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

<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)		-	50	39	34	-	34
Gross/Weapon System Cost (\$ in Millions)		-	303.544	250.415	271.983	-	271.983
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	303.544	250.415	271.983	-	271.983
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	303.544	250.415	271.983	-	271.983

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

Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	6,070.880	6,420.897	7,999.500	-	7,999.500

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
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	178.139
B Kits (MEDEVAC & Hoist)		-	-	-	213.000	14	2.983	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Engineering Changes		-	-	-	-	-	10.549	-	-	13.424	-	-	70.489	-	-	0.000	-	-	70.489
System Engineering & Program Management		-	-	-	-	-	7.382	-	-	7.552	-	-	7.818	-	-	0.000	-	-	7.818
Systems Test & Evaluation		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Engineering Services		-	-	-	-	-	2.467	-	-	2.551	-	-	1.147	-	-	0.000	-	-	1.147
Procedural Trainers		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Fielding		-	-	-	-	-	16.930	-	-	17.273	-	-	14.390	-	-	0.000	-	-	14.390
Other program Requirements		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Total Recurring Cost</b>				<b>0.000</b>			<b>303.544</b>			<b>250.415</b>			<b>271.983</b>			<b>0.000</b>			<b>271.983</b>
<b>Total Flyaway Cost</b>				<b>0.000</b>			<b>303.544</b>			<b>250.415</b>			<b>271.983</b>			<b>0.000</b>			<b>271.983</b>
<b>Gross Weapon System Cost</b>				<b>-</b>			<b>303.544</b>			<b>250.415</b>			<b>271.983</b>			<b>-</b>			<b>271.983</b>

**Remarks:**

<b>Secondary Distribution</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Army Active	Quantity	11	1	15	-	15

**UNCLASSIFIED**

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

Secondary 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

**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05001 - Helicopter, Light Utility (LUH)	<b>Item Nomenclature:</b> A05001 - Helicopter, Light Utility (LUH)
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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:**

**UNCLASSIFIED**

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

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2011											Fiscal Year 2012															
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011											Calendar Year 2012											B A L				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P		
Airframes/Includes non-recurring																																	
	1	2011	ARMY	50	0	50	-	-	A -	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	5	4	5	4	4	4		
	1	2012	ARMY	39	0	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	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 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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army														<b>Date:</b> February 2012													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20							<b>P-1 Line Item Nomenclature:</b> A05001 - Helicopter, Light Utility (LUH)														<b>Item Nomenclature:</b> A05001 - Helicopter, Light Utility (LUH)						

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013														Fiscal Year 2014													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013														Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
Airframes/Includes non-recurring																																		
	1	2011	ARMY	50	50	0																												
	1	2012	ARMY	39	4	35	4	4	3	3	3	3	3	3	3	3																		
	1	2013	ARMY	34	0	34	-	-	A-	-	-	-	-	-	-	-	3	3	3	3	2	3	3	3	3	3	3	2						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	EADS-NA - Columbus, MS	30	48	60	0	9	5	14	0	2	9	11

**Remarks:**  
 ‡ 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.



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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05111 - AH-64 Apache Block IIIA Reman

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

Resource Summary	Prior Years	FY 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)	-	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

*(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)	-	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.

Secondary 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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>				<b>195.383</b>				<b>400.050</b>			<b>528.742</b>			<b>769.879</b>			<b>-</b>			<b>769.879</b>

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary		<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
*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.		
<b>Justification:</b> FY13 Base procurement dollars in the amount of \$684.822 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 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).  COMPO 1 Active and COMPO 2 National Guard. In FY16, 24 aircraft are procured to support NGB.  The current AH-64D Block III Remanufacture Acquisition Program Baseline procurement objective is 634 aircraft with an estimated total procurement cost of \$10,289.4M.		

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A05111 - AH-64 Apache Block IIIA Reman

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	16	19	40	-	40
Gross/Weapon System Cost (\$ in Millions)		-	400.050	528.742	769.879	-	769.879
Less PY Advance Procurement (\$ in Millions)		-	69.253	160.237	192.764	-	192.764
Net Procurement (P1) (\$ in Millions)		-	330.797	368.505	577.115	-	577.115
Plus CY Advance Procurement (\$ in Millions)		-	160.237	192.764	107.707	-	107.707
Total Obligation Authority (\$ in Millions)		-	491.034	561.269	684.822	-	684.822

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

Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	25,003.125	27,828.526	19,246.975	-	19,246.975

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
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	378.107
GFE		-	-	-	3,678.000	16	58.851	3,585.000	19	68.115	4,069.000	40	162.763	-	-	0.000	4,069.000	40	162.763
Engineering Change Orders (ECO)		-	-	-	-	-	4.424	-	-	5.583	-	-	10.384	-	-	0.000	-	-	10.384
Non-Recurring Costs		-	-	-	-	-	100.822	-	-	32.282	-	-	9.602	-	-	0.000	-	-	9.602
Support Equipment		-	-	-	-	-	42.387	-	-	75.703	-	-	90.176	-	-	0.000	-	-	90.176
Other Costs		-	-	-	-	-	57.007	-	-	165.055	-	-	104.036	-	-	0.000	-	-	104.036
Initial Spares		-	-	-	-	-	4.134	-	-	6.495	-	-	14.811	-	-	0.000	-	-	14.811
<b>Total Recurring Cost</b>				0.000			400.050			528.742			769.879			0.000			769.879
<b>Total Flyaway Cost</b>				0.000			400.050			528.742			769.879			0.000			769.879
<b>Gross Weapon System Cost</b>				-			400.050			528.742			769.879			-			769.879

**Remarks:**

Secondary 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

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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20				<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman				<b>Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman				
<b>Cost Elements</b> <small>(† indicates the presence of a P-21)</small>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Contract Method and Type</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty</b> <small>(Each)</small>	<b>Unit Cost</b> <small>(\$ K)</small>	<b>Specs Avail Now?</b>	<b>Date Revsn Avail</b>	<b>RFP Issue Date</b>
†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:**

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

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2012											Fiscal Year 2013																		
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012											Calendar Year 2013											B A L							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P					
CFE																																				
	1	2011	ARMY	16	0	16	-	-	-	-	-	2	1	2	2	3	3	3																		
	1	2012	ARMY	19	0	19	A	-	-	-	-	-	-	-	-	-	-	-	3	1	1	1	2	2	2	2	2	1	1	1						
	1	2013	ARMY <sup>(1)</sup>	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
							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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army																	<b>Date:</b> February 2012														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20							<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman										<b>Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman														
<b>Cost Elements</b> <i>(Units in Each)</i>							<b>Fiscal Year 2014</b>										<b>Fiscal Year 2015</b>														
							<b>Calendar Year 2014</b>										<b>Calendar Year 2015</b>														
<b>O C O</b>	<b>MFR Ref #</b>	<b>FY</b>	<b>SERVICE<sup>‡</sup></b>	<b>PROC QTY</b>	<b>ACCEP TO 1 OCT</b>	<b>BAL DUE AS OF 1 OCT</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>B A L</b>
CFE																															
	1	2011	ARMY	16	16	0																									
	1	2012	ARMY	19	19	0																									
	1	2013	ARMY <sup>(1)</sup>	40	0	40	1	3	4	3	3	3	4	4	4	4	4	3													
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	

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

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	The Boeing Company - Mesa, AZ	4	8	12	0	11	13	24	0	6	12	18

**Remarks:**  
 ‡ 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.  
 (1)BASE

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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05111 - AH-64 Apache Block IIIA Reman Advance Procurement

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

Secondary 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 Schedule	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A05111 - AH-64 Apache Block IIIA Reman Advance Procurement	P10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>				69.253			160.237			192.764			107.707			-			107.707

\*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:**



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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary		<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman Advance Procurement
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
FY 13 Base Advance Procurement dollars in the amount of \$107.707 Million supports Advance Procurement items in support of the AB3A REMAN 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).		
COMPO 1 Active and National Guard. In FY16, 24 aircraft are procured to support NGB.		

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman Advance Procurement	<b>Item Nomenclature (Item Number, Item Name):</b> A05111 - AH-64 Apache Block IIIA Reman Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP Code:</b>
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<b>First System (2013) Award Date:</b> July 2009	<b>First System (2013) Completion Date:</b> November 2011	<b>Interval Between Systems:</b> 1 Months								
<b>End Item Quantity</b>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2011</b> <i>(Each)</i>	<b>FY 2012</b> <i>(Each)</i>	<b>FY 2013</b> <i>(Each)</i>	<b>FY 2014</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>	<b>To Complete</b> <i>(Each)</i>	<b>Total</b> <i>(Each)</i>
	8	16	19	-	-	-	-	-	-	-

<b>Cost Element</b>	<b>Procurement Leadtime</b> <i>(Months)</i>	<b>When Rqd</b> <i>(Months)</i>	<b>All Prior Years</b> <i>(\$ M)</i>	<b>FY 2011</b> <i>(\$ M)</i>	<b>FY 2012</b> <i>(\$ M)</i>	<b>FY 2013</b> <i>(\$ M)</i>	<b>FY 2014</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	<b>To Complete</b> <i>(\$ M)</i>	<b>Total</b> <i>(\$ M)</i>
<b>Other</b>												
Apache Block III - Reman	-	12	69.253	160.237	192.764	107.707	-	-	-	-	-	-
<i>Other Subtotal</i>			<i>69.253</i>	<i>160.237</i>	<i>192.764</i>	<i>107.707</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>
<b>Total Advance Procurement/Obligation Authority</b>			<b>69.253</b>	<b>160.237</b>	<b>192.764</b>	<b>107.707</b>	-	-	-	-	-	-

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05111 - AH-64 Apache Block IIIA Reman Advance Procurement	<b>Item Nomenclature (Item Name, Item Number):</b> A05111 - AH-64 Apache Block IIIA Reman Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP Code:</b>	
	<b>FY 2013</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost Request</b> (\$ M)
<b>End Item</b>	-	-	107.707

		<b>FY 2013</b>				
<b>Cost Elements</b>	<b>QPA</b> (Each)	<b>Procurement Leadtime</b> (Months)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Contract Forecast Date</b>	<b>Total Cost Request</b> (\$ M)
<b>Other</b>						
Apache Block III - Reman	-	-	-	-	Dec 2012	108

**Description:**

**UNCLASSIFIED**

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

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

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

Resource Summary	Prior Years	FY 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)	-	-	-	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

*(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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total					
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)		
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
<b>Total Gross/Weapon System Cost</b>			-		-			-			-			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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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary		<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<p>The current AH-64D Block III New Build Acquisition Program Baseline procurement objective is 56 aircraft with an estimated total procurement cost of \$2,848.8M. Note that this does not include two AH-64D New Build aircraft to be procured in FY13 as War Replacement Aircraft.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A05133 - AH-64 Apache Block IIIB New Build

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	8	2	10
Gross/Weapon System Cost (\$ in Millions)	-	-	-	258.256	71.000	329.256
Less PY Advance Procurement (\$ in Millions)	-	-	-	104.263	-	104.263
Net Procurement (P1) (\$ in Millions)	-	-	-	153.993	71.000	224.993
Plus CY Advance Procurement (\$ in Millions)	-	-	104.263	146.121	-	146.121
Total Obligation Authority (\$ in Millions)	-	-	104.263	300.114	71.000	371.114

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	32,282.000	35,500.000	32,925.600

<b>Cost Elements</b> († indicates the presence of a P-5A)	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
Recurring Cost																			
† CFE		-	-	-	-	-	0.000	-	-	0.000	19,069.000	8	152.528	20,967.000	2	41.934	19,069.000	10	194.462
GFE		-	-	-	-	-	0.000	-	-	0.000	9,117.000	8	72.938	10,026.000	2	20.052	9,117.000	10	92.990
Engineering Change Orders (ECO)		-	-	-	-	-	0.000	-	-	0.000	-	-	13.740	-	-	3.777	-	-	17.517
Non-Recurring Costs		-	-	-	-	-	0.000	-	-	0.000	-	-	13.437	-	-	3.694	-	-	17.131
Support Equipment		-	-	-	-	-	0.000	-	-	0.000	-	-	5.613	-	-	1.543	-	-	7.156
Initial Spares		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Total Recurring Cost</b>				<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>258.256</b>			<b>71.000</b>			<b>329.256</b>
<b>Total Flyaway Cost</b>				<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>258.256</b>			<b>71.000</b>			<b>329.256</b>
<b>Gross Weapon System Cost</b>				<b>-</b>			<b>-</b>			<b>-</b>			<b>258.256</b>			<b>71.000</b>			<b>329.256</b>

Remarks:

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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20				<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build				<b>Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build				
<b>Cost Elements</b> <small>(† indicates the presence of a P-21)</small>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Contract Method and Type</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty</b> <small>(Each)</small>	<b>Unit Cost</b> <small>(\$ K)</small>	<b>Specs Avail Now?</b>	<b>Date Revsn Avail</b>	<b>RFP Issue Date</b>
†CFE		2013	The Boeing Company / Mesa	SS / FFP	AMCOM	Jan 2013	Jan 2014	10	19,069.000	N		Jul 2012

**Remarks:**

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army													<b>Date:</b> February 2012																
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20						<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build												<b>Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build											

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014												Fiscal Year 2015											
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

CFE																												
1	2013	ARMY	10	0	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 L	A U G	S E P					
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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build	<b>Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	The Boeing Company - Mesa	4	8	12	0	11	13	24	0	6	12	18

**Remarks:**  
 ‡ 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.

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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05133 - AH-64 Apache Block IIIB New Build Advance Procurement

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	-	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A05133 - AH-64 Apache Block IIIB New Build Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					-			-			104.263			146.121			-			146.121

\*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 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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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build Advance Procurement	<b>Item Nomenclature (Item Number, Item Name):</b> A05133 - AH-64 Apache Block IIIB New Build Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP Code:</b>
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<b>First System (2013) Award Date:</b> July 2009	<b>First System (2013) Completion Date:</b> November 2011	<b>Interval Between Systems:</b> 1 Months								
<b>End Item Quantity</b>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2011</b> <i>(Each)</i>	<b>FY 2012</b> <i>(Each)</i>	<b>FY 2013</b> <i>(Each)</i>	<b>FY 2014</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>	<b>To Complete</b> <i>(Each)</i>	<b>Total</b> <i>(Each)</i>
	0	0	0	-	-	-	-	-	-	-

<b>Cost Element</b>	<b>Procurement Leadtime</b> <i>(Months)</i>	<b>When Rqd</b> <i>(Months)</i>	<b>All Prior Years</b> <i>(\$ M)</i>	<b>FY 2011</b> <i>(\$ M)</i>	<b>FY 2012</b> <i>(\$ M)</i>	<b>FY 2013</b> <i>(\$ M)</i>	<b>FY 2014</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	<b>To Complete</b> <i>(\$ M)</i>	<b>Total</b> <i>(\$ M)</i>
<b>Other</b>												
Apache Block III New Build	-	12	-	-	104.263	146.121	-	-	-	-	-	-
<i>Other Subtotal</i>			<i>0.000</i>	<i>0.000</i>	<i>104.263</i>	<i>146.121</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>
<b>Total Advance Procurement/Obligation Authority</b>			-	-	<b>104.263</b>	<b>146.121</b>	-	-	-	-	-	-

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05133 - AH-64 Apache Block IIIB New Build Advance Procurement	<b>Item Nomenclature (Item Name, Item Number):</b> A05133 - AH-64 Apache Block IIIB New Build Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP Code:</b>
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End Item	FY 2013		
	Unit Cost (\$ K )	Qty (Each)	Total Cost Request (\$ M )
	-	-	146.121

Cost Elements	QPA (Each)	FY 2013				
		Procurement Leadtime (Months)	Unit Cost (\$ K )	Qty (Each)	Contract Forecast Date	Total Cost Request (\$ M )
<b>Other</b>						
Apache Block III New Build	-	-	-	-	Dec 2012	146

**Description:**

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05121 - AH-64 Block II/WRA

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	34.600	-	-	-	-	-	-	-	-	0.000	34.600
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	34.600	-	-	-	-	-	-	-	-	0.000	34.600
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	34.600	-	-	-	-	-	-	-	-	0.000	34.600

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

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

**Description:**

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

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A02345 - Kiowa Warrior WRA

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	-	9	-	16	16	-	-	-	-	0	25
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	11,200.000	-	11,493.750	11,493.750	-	-	-	-	0.000	11.388

**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.

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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>											<b>100.800</b>						<b>183.900</b>			<b>183.900</b>

\*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:**

UNCLASSIFIED

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary		<b>P-1 Line Item Nomenclature:</b> A02345 - Kiowa Warrior WRA
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<p>FY 2013 OCO Funding in the amount of \$183.900 Million will continue to build OH-58D(R) Kiowa Warrior Wartime Replacement Aircraft in the most current configuration to include fielded fleet upgrades and weight reduction items.</p> <p>The OH-58D(R) is the result of the Safety Enhancement Program (SEP) that was completed in September 2011. The entire fleet is now this configuration. This effort included the following engineering modifications: installation of crashworthy crew seats and cockpit airbag system, upgrade of the Control Display System, Improved Master Control Processor Units, installation of the 250-C30R/3 Engine with Full Authority Digital Electronic Control functionality, and digital upgrades to the Improved Mast Mounted Sight System Processor, Improved Data Modem, and the Embedded GPS/INS.</p> <p>In accordance with section 1815 of the FY 2008 National Defense Authorization Act P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A02345 - Kiowa Warrior WRA	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A02345 - Kiowa Warrior WRA

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	9	-	16	16
Gross/Weapon System Cost (\$ in Millions)	-	-	100.800	-	183.900	183.900
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	100.800	-	183.900	183.900
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	100.800	-	183.900	183.900

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	11,200.000	-	11,493.750	11,493.750

<b>Cost Elements</b> († indicates the presence of a P-5A)	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
Recurring Cost																			
† BHTI - Cabins		-	-	-	-	-	0.000	4,098.000	9	36.878	-	-	0.000	5,092.000	16	81.472	5,092.000	16	81.472
CCAD - Flight Test & Aircraft Acceptance		-	-	-	-	-	0.000	-	-	6.314	-	-	0.000	-	-	8.866	-	-	8.866
GFE / Hardware		-	-	-	-	-	0.000	-	-	53.441	-	-	0.000	-	-	88.758	-	-	88.758
Program Support		-	-	-	-	-	0.000	-	-	4.167	-	-	0.000	-	-	4.804	-	-	4.804
<b>Total Recurring Cost</b>				<i>0.000</i>			<i>0.000</i>			<i>100.800</i>			<i>0.000</i>			<i>183.900</i>			<i>183.900</i>
<b>Total Flyaway Cost</b>				<i>0.000</i>			<i>0.000</i>			<i>100.800</i>			<i>0.000</i>			<i>183.900</i>			<i>183.900</i>
<b>Gross Weapon System Cost</b>				-			-			<b>100.800</b>			-			<b>183.900</b>			<b>183.900</b>

Remarks:



**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A02345 - Kiowa Warrior WRA	<b>Item Nomenclature:</b> A02345 - Kiowa Warrior WRA
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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	✓	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.

**UNCLASSIFIED**

**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:** A02345 - Kiowa Warrior WRA **Item Nomenclature:** A02345 - Kiowa Warrior WRA

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014											Fiscal Year 2015																
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014											Calendar Year 2015											B A L					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P			
BHTI - Cabins																																		
	1	2012	ARMY (1)	9	0	9	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1		
✓	2	2013	ARMY (2)	16	0	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	13
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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**Exhibit P-21, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A02345 - Kiowa Warrior WRA	<b>Item Nomenclature:</b> A02345 - Kiowa Warrior WRA
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016										Fiscal Year 2017													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
BHTI - Cabins																														
	1	2012	ARMY (1)	9	9	0																								
✓	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 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

**UNCLASSIFIED**

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

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Bell Helicopter Textron Inc - Fort Worth, Texas	1	2	3	0	8	0	8	0	0	0	0	0
2	Bell Helicopter Textron Inc - Fort Worth, Texas	1	2	3	0	3	0	3	0	0	0	0	0

**Remarks:**  
 ‡ 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.  
 (1)OCO  
 (2)OCO

**UNCLASSIFIED**

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

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

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

Resource Summary	Prior Years	FY 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	Continuing
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)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	18,089.404	22,190.667	22,118.288	-	22,118.288	21,124.316	21,801.232	21,694.446	22,760.811	Continuing	Continuing

**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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>					<b>5,537.788</b>			<b>1,790.851</b>			<b>1,597.728</b>			<b>1,304.979</b>			<b>-</b>			<b>1,304.979</b>

\*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.

**UNCLASSIFIED**

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)	-	99	72	59	-	59
Gross/Weapon System Cost (\$ in Millions)	-	1,790.851	1,597.728	1,304.979	-	1,304.979
Less PY Advance Procurement (\$ in Millions)	-	101.925	99.962	197.892	-	197.892
Net Procurement (P1) (\$ in Millions)	-	1,688.926	1,497.766	1,107.087	-	1,107.087
Plus CY Advance Procurement (\$ in Millions)	-	99.962	199.781	115.113	-	115.113
Total Obligation Authority (\$ in Millions)	-	1,788.888	1,697.547	1,222.200	-	1,222.200

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	18,089.404	22,190.666	22,118.288	-	22,118.288

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Airframes/CFE		-	-	-	12,254.000	99	1,213.116	13,913.000	72	1,001.736	14,704.000	59	867.509	-	-	0.000	14,704.000	59	867.509
Engines/Accessories		-	-	-	702.000	198	139.061	805.000	144	115.920	728.000	118	85.862	-	-	0.000	728.000	118	85.862
Avionics (GFE)		-	-	-	-	-	72.143	-	-	63.577	-	-	51.743	-	-	0.000	-	-	51.743
Other GFE		-	-	-	-	-	54.601	-	-	32.738	-	-	32.833	-	-	0.000	-	-	32.833
ECO (All FLYAWAY Components)		-	-	-	-	-	44.896	-	-	44.150	-	-	37.160	-	-	0.000	-	-	37.160
Other Costs (Mission Equipment)		-	-	-	-	-	79.494	-	-	75.513	-	-	77.943	-	-	0.000	-	-	77.943
Tooling Equipment		-	-	-	-	-	2.963	-	-	27.070	-	-	0.794	-	-	0.000	-	-	0.794
Other Nonrecurring Cost		-	-	-	-	-	31.719	-	-	19.264	-	-	6.936	-	-	0.000	-	-	6.936
Peculiar Training Equipment		-	-	-	-	-	38.931	-	-	100.672	-	-	55.892	-	-	0.000	-	-	55.892
Publications/Tech Data		-	-	-	-	-	3.556	-	-	3.096	-	-	3.184	-	-	0.000	-	-	3.184
PM Administration		-	-	-	-	-	46.484	-	-	39.469	-	-	40.269	-	-	0.000	-	-	40.269
Fielding		-	-	-	-	-	63.887	-	-	74.523	-	-	44.854	-	-	0.000	-	-	44.854
<b>Total Recurring Cost</b>				0.000			1,790.851			1,597.728			1,304.979			0.000			1,304.979
<b>Total Flyaway Cost</b>				0.000			1,790.851			1,597.728			1,304.979			0.000			1,304.979
<b>Gross Weapon System Cost</b>				-			1,790.851			1,597.728			1,304.979			-			1,304.979

Remarks:

**UNCLASSIFIED**

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

Secondary 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:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> AA0005 - UH-60 Blackhawk M Model (MYP)	<b>Item Nomenclature:</b> A05002 - UH-60 BLACK HAWK (MYP)
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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 procurement of 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:** 2031A / BA 1 / BSA 20 **P-1 Line Item Nomenclature:** AA0005 - UH-60 Blackhawk M Model (MYP) **Item Nomenclature:** A05002 - UH-60 BLACK HAWK (MYP)

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2011													Fiscal Year 2012												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011													Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Airframes/CFE																																
1	2011	ARMY	99	0	99	-	-	-	A -	-	-	-	-	-	-	3	3	3	3	5	6	8	8	8	7	7	10	5	3	3	17	
1	2011	♦ NAVY	42	0	42	-	-	-	-	-	-	-	-	-	-	1	2	1	2	2	1	1	2	1	2	5	4	3	3	3	9	
1	2011	♦ FMS	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1	1	1	-	-	2	2	-	1	-	2	
<b>1</b>	<b>2011</b>	<b>TOTAL</b>	<b>156</b>	<b>0</b>	<b>156</b>	-	-	-	-	-	-	-	-	-	-	<b>4</b>	<b>5</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>9</b>	<b>9</b>	<b>14</b>	<b>16</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>28</b>	
1	2012	ARMY	72	0	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	6	6	6	54
1	2012	♦ NAVY	42	0	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	37	
<b>1</b>	<b>2012</b>	<b>TOTAL</b>	<b>114</b>	<b>0</b>	<b>114</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>8</b>	<b>7</b>	<b>8</b>	<b>91</b>	
1	2013	ARMY <sup>(1)</sup>	59	0	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	
1	2013	♦ NAVY <sup>(2)</sup>	37	0	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	
<b>1</b>	<b>2013</b>	<b>TOTAL</b>	<b>96</b>	<b>0</b>	<b>96</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>96</b>	
						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, 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:** AA0005 - UH-60 Blackhawk M Model (MYP) **Item Nomenclature:** A05002 - UH-60 BLACK HAWK (MYP)

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013										Fiscal Year 2014													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014										B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Airframes/CFE																														
1		2011	ARMY	99	82	17	3	3	3	3	2	2	1																	
1		2011	♦ NAVY	42	33	9	3	3	3	-	-	-	-																	
1		2011	♦ FMS	15	13	2	1	1	-	-	-	-	-																	
<b>1</b>		<b>2011</b>	<b>TOTAL</b>	<b>156</b>	<b>128</b>	<b>28</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>																	
1		2012	ARMY	72	18	54	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1		2012	♦ NAVY	42	5	37	1	2	1	4	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
<b>1</b>		<b>2012</b>	<b>TOTAL</b>	<b>114</b>	<b>23</b>	<b>91</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>		
1		2013	ARMY <sup>(1)</sup>	59	0	59	-	-	-	A	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5		
1		2013	♦ NAVY <sup>(2)</sup>	37	0	37	-	-	-	-	-	-	-	-	-	2	1	2	1	2	1	4	3	4	2	3	2			
<b>1</b>		<b>2013</b>	<b>TOTAL</b>	<b>96</b>	<b>0</b>	<b>96</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>7</b>	<b>8</b>	<b>7</b>				
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>

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**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:** AA0005 - UH-60 Blackhawk M Model (MYP) **Item Nomenclature:** A05002 - UH-60 BLACK HAWK (MYP)

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2015										Fiscal Year 2016													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Airframes/CFE																														
	1	2011	ARMY	99	99	0																								
	1	2011	♦ NAVY	42	42	0																								
	1	2011	♦ FMS	15	15	0																								
	<b>1</b>	<b>2011</b>	<b>TOTAL</b>	<b>156</b>	<b>156</b>	<b>0</b>																								
	1	2012	ARMY	72	72	0																								
	1	2012	♦ NAVY	42	42	0																								
	<b>1</b>	<b>2012</b>	<b>TOTAL</b>	<b>114</b>	<b>114</b>	<b>0</b>																								
	1	2013	ARMY <sup>(1)</sup>	59	59	0																								
	1	2013	♦ NAVY <sup>(2)</sup>	37	32	5																								
	<b>1</b>	<b>2013</b>	<b>TOTAL</b>	<b>96</b>	<b>91</b>	<b>5</b>																								
							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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> AA0005 - UH-60 Blackhawk M Model (MYP)	<b>Item Nomenclature:</b> A05002 - UH-60 BLACK HAWK (MYP)

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Sikorsky Aircraft - Stratford CT	18	96	150	8	3	6	9	0	3	6	9

**Remarks:**  
 ‡ 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.  
 (1)BASE  
 (2)BASE

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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:**  
AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 (IHRSS) as well as numerous communication, navigation, and Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM).

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					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.

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement	<b>Item Nomenclature (Item Number, Item Name):</b> AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP Code:</b>
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<b>First System (2013) Award Date:</b> May 2005	<b>First System (2013) Completion Date:</b> June 2006	<b>Interval Between Systems:</b> 18 Months								
<b>End Item Quantity</b>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2011</b> <i>(Each)</i>	<b>FY 2012</b> <i>(Each)</i>	<b>FY 2013</b> <i>(Each)</i>	<b>FY 2014</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>	<b>To Complete</b> <i>(Each)</i>	<b>Total</b> <i>(Each)</i>
	262	47	36	-	-	-	-	-	-	-

<b>Cost Element</b>	<b>Procurement Leadtime</b> <i>(Months)</i>	<b>When Rqd</b> <i>(Months)</i>	<b>All Prior Years</b> <i>(\$ M)</i>	<b>FY 2011</b> <i>(\$ M)</i>	<b>FY 2012</b> <i>(\$ M)</i>	<b>FY 2013</b> <i>(\$ M)</i>	<b>FY 2014</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	<b>To Complete</b> <i>(\$ M)</i>	<b>Total</b> <i>(\$ M)</i>
<b>Other</b>												
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	-	3	1.914	-	-	-	-	-	-	-	-	-
<b>Other Subtotal</b>			<b>3,150.183</b>	<b>99.962</b>	<b>199.781</b>	<b>115.113</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Total Advance Procurement/Obligation Authority</b>			<b>3,150.183</b>	<b>99.962</b>	<b>199.781</b>	<b>115.113</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement	<b>Item Nomenclature (Item Name, Item Number):</b> AA0005 - UH-60 Blackhawk M Model (MYP) Advance Procurement

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

Cost Elements	QPA (Each)	FY 2013				
		Procurement Leadtime (Months)	Unit Cost (\$ K)	Qty (Each)	Contract Forecast Date	Total Cost Request (\$ M)
<b>Other</b>						
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:** 2031A : Aircraft Procurement, Army / BA 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05101 - CH-47 Helicopter

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

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 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)	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:**

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 multi-year procurement (MYP) program and is working towards awarding a second MYP in FY13.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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
<b>Total Gross/Weapon System Cost</b>					<b>1,226.886</b>			<b>1,419.818</b>			<b>1,360.316</b>			<b>1,159.382</b>			<b>231.300</b>			<b>1,390.682</b>



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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:** A05101 - CH-47 Helicopter

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

Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A05008 - CH-47 NEW BUILD	P5, P5A, P21		-	6	221.100	-	4	156.805	-	12	404.445	-	-	525.580	-	-	-	-	-	-
CH-47 SLEP - .	P3A		-	22	694.100	-	26	770.140	-	27	785.774	-	27	754.888	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>915.200</b>			<b>926.945</b>			<b>1,190.219</b>			<b>1,280.468</b>			-			-

\*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 \$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.

**UNCLASSIFIED**

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: A05101 - CH-47 Helicopter						Item Nomenclature (Item Number, Item Name, DODIC): A05008 - CH-47 NEW BUILD									
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)		59	38	33	19	6	25	6	4	12	-	Continuing	Continuing						
Gross/Weapon System Cost (\$ in Millions)		881.805	1,114.170	870.399	525.141	231.300	756.441	221.100	156.805	404.445	525.580	Continuing	Continuing						
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-						
Net Procurement (P1) (\$ in Millions)		881.805	1,114.170	870.399	525.141	231.300	756.441	221.100	156.805	404.445	525.580	Continuing	Continuing						
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-						
Total Obligation Authority (\$ in Millions)		881.805	1,114.170	870.399	525.141	231.300	756.441	221.100	156.805	404.445	525.580	Continuing	Continuing						
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-						
Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Airframes/CFE		15,016.000	43	645.708	18,199.000	38	691.580	19,286.000	33	636.440	13,089.000	19	248.692	-	-	153.318	21,158.000	19	402.010
Engine/Accessories		851.000	86	73.246	875.000	76	66.513	956.000	64	61.210	997.000	24	23.918	-	-	14.748	1,611.000	24	38.666
CFE Avionics		-	-	42.179	-	-	43.274	-	-	39.824	-	-	15.561	-	-	9.594	-	-	25.155
GFE		-	-	47.297	-	-	119.885	-	-	30.278	-	-	35.018	-	-	17.340	-	-	52.358
ECO (Flyaway)		-	-	17.560	-	-	0.000	-	-	13.941	-	-	12.282	-	-	7.361	-	-	19.643
Other Costs		-	-	28.933	-	-	8.847	-	-	26.304	-	-	23.210	-	-	10.039	-	-	33.249
SOA Aircraft		-	-	-	-	-	8.929	-	-	12.202	-	-	74.164	-	-	0.000	-	-	74.164
PSE		-	-	3.827	-	-	6.544	-	-	2.096	-	-	2.425	-	-	0.486	-	-	2.911
Peculiar Training Equipment		-	-	3.976	-	-	25.897	-	-	0.532	-	-	0.308	-	-	0.060	-	-	0.368
Publications/Tech Data		-	-	0.747	-	-	5.816	-	-	0.491	-	-	0.284	-	-	0.054	-	-	0.338
ECO (Support Items)		-	-	0.824	-	-	0.506	-	-	0.452	-	-	0.523	-	-	0.102	-	-	0.625
NET		-	-	-	-	-	23.886	-	-	0.000	-	-	18.047	-	-	3.606	-	-	21.653
Other Support Costs		-	-	11.860	-	-	7.755	-	-	9.129	-	-	6.865	-	-	1.374	-	-	8.239
Post Production Modifications		-	-	-	-	-	99.888	-	-	31.787	-	-	61.664	-	-	12.018	-	-	73.682
Initial Spares		-	-	5.648	-	-	4.850	-	-	5.713	-	-	2.180	-	-	1.200	-	-	3.380
<b>Total Recurring Cost</b>				<b>881.805</b>			<b>1,114.170</b>			<b>870.399</b>			<b>525.141</b>			<b>231.300</b>			<b>756.441</b>
<b>Total Flyaway Cost</b>				<b>881.805</b>			<b>1,114.170</b>			<b>870.399</b>			<b>525.141</b>			<b>231.300</b>			<b>756.441</b>
<b>Gross Weapon System Cost</b>				<b>881.805</b>			<b>1,114.170</b>			<b>870.399</b>			<b>525.141</b>			<b>231.300</b>			<b>756.441</b>

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>														<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20							<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter							<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A05008 - CH-47 NEW BUILD					

Cost Elements († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total Cost		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	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
<b>Total Recurring Cost</b>				<b>221.100</b>			<b>156.805</b>			<b>404.445</b>			<b>525.580</b>			<b>0.000</b>			<b>4,930.745</b>
<b>Total Flyaway Cost</b>				<b>221.100</b>			<b>156.805</b>			<b>404.445</b>			<b>525.580</b>			<b>0.000</b>			<b>4,930.745</b>
<b>Gross Weapon System Cost</b>				<b>221.100</b>			<b>156.805</b>			<b>404.445</b>			<b>525.580</b>			<b>Continuing</b>			<b>Continuing</b>

**Remarks:**

Secondary 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 Guard	Quantity	6	18	-	-	-	-	-	-	-
	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:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter	<b>Item Nomenclature:</b> A05008 - CH-47 NEW BUILD
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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:**

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**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:** A05101 - CH-47 Helicopter **Item Nomenclature:** A05008 - CH-47 NEW BUILD

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013													Fiscal Year 2014											
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013													Calendar Year 2014											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Airframes/CFE																															
	1	2011	ARMY	38	0	38	-	-	-	3	4	5	4	2	2	3	3	3	3	3	3										
	1	2012	ARMY	33	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	2	3	7
	1	2013	ARMY <sup>(1)</sup>	19	0	19	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	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:** 2031A / BA 1 / BSA 20 **P-1 Line Item Nomenclature:** A05101 - CH-47 Helicopter **Item Nomenclature:** A05008 - CH-47 NEW BUILD

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2015										Fiscal Year 2016													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016										B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Airframes/CFE																														
	1	2011	ARMY	38	38	0																								
	1	2012	ARMY	33	26	7	2	3	2																					
	1	2013	ARMY <sup>(1)</sup>	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 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:** 2031A / BA 1 / BSA 20 **P-1 Line Item Nomenclature:** A05101 - CH-47 Helicopter **Item Nomenclature:** A05008 - CH-47 NEW BUILD

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018										B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Airframes/CFE																														
	1	2011	ARMY	38	38	0																								
	1	2012	ARMY	33	33	0																								
	1	2013	ARMY <sup>(1)</sup>	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 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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter	<b>Item Nomenclature:</b> A05008 - CH-47 NEW BUILD

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	The Boeing Company - Ridley Park, PA	36	36	72	5	5	35	40	0	0	0	0

**Remarks:**  
 ‡ 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.  
 (1)BASE



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20				<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 SLEP - .				

<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> .					<b>Related RDT&amp;E PEs:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>345.081</b>	<b>305.648</b>	<b>489.917</b>	<b>634.241</b>	<b>-</b>	<b>634.241</b>	<b>694.100</b>	<b>770.140</b>	<b>785.774</b>	<b>754.888</b>	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ 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 ReNew program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. The ReNew Program produces an identical aircraft as the CH-47F New Build program with the exception of dynamic components including engine, transmission and drive train. During production, the aircraft receives a new airframe, cockpit, wiring and plumbing.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20					<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 SLEP - .			
<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> .				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
CH-47 D to F Conversion <sup>(2)</sup>													
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	7.292	
Post Production (Mods)	0	0.000	0	0.000	0	29.800	0	31.377	0	0.000	0	31.377	
<i>Subtotal Recurring</i>		<i>345.081</i>		<i>305.648</i>		<i>489.917</i>		<i>634.241</i>		<i>0.000</i>		<i>634.241</i>	
<i>Total, CH-47 D to F Conversion</i>	<i>14</i>	<i>345.081</i>	<i>11</i>	<i>305.648</i>	<i>15</i>	<i>489.917</i>	<i>19</i>	<i>634.241</i>	<i>0</i>	<i>0.000</i>	<i>19</i>	<i>634.241</i>	
<i>Total, All Modifications</i>		<i>345.081</i>		<i>305.648</i>		<i>489.917</i>		<i>634.241</i>		<i>0.000</i>		<i>634.241</i>	
<i>Procurement Cost (Procurement + Support)</i>		<i>345.081</i>		<i>305.648</i>		<i>489.917</i>		<i>634.241</i>		<i>0.000</i>		<i>634.241</i>	
<i>Total Installation Cost</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>	
<b>Total Cost (Procurement + Support + Installation)</b>		<b>345.081</b>		<b>305.648</b>		<b>489.917</b>		<b>634.241</b>		<b>0.000</b>		<b>634.241</b>	
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
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	3,949.424	
Other Flyaway	0	58.234	0	71.061	0	62.913	0	53.790	0	167.755	0	526.753	
Other Support	0	40.388	0	27.474	0	23.787	0	25.923	0	9.190	0	229.529	
Training	0	12.254	0	0.713	0	0.579	0	0.851	0	0.865	0	28.474	
Support Equipment	0	7.819	0	7.694	0	7.441	0	5.248	0	0.395	0	45.695	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 SLEP - .

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> .	<b>Related RDT&amp;E PEs:</b>										
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Post Production (Mods)	0	27.242	0	28.427	0	33.631	0	74.125	0	2,004.147	0	2,228.749
<i>Subtotal Recurring</i>		694.100		770.140		785.774		754.888		2,228.835		7,008.624
<i>Total, CH-47 D to F Conversion</i>	22	694.100	26	770.140	27	785.774	27	754.888	2	2,228.835	163	7,008.624
<i>Total, All Modifications</i>		694.100		770.140		785.774		754.888		2,228.835		7,008.624
<i>Procurement Cost (Procurement + Support)</i>		694.100		770.140		785.774		754.888		2,228.835		7,008.624
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>694.100</b>		<b>770.140</b>		<b>785.774</b>		<b>754.888</b>		<b>2,228.835</b>		<b>7,008.624</b>

**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).

<b>Manufacturer Information: CH-47 D to F Conversion</b>							
Manufacturer Name: Boeing				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

<b>Installation:</b> CH-47 D to F Conversion			<b>Method of Implementation:</b> Contractor				<b>Installation Name:</b>					
Installation Cost	Prior Years		FY 2011		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 (\$ 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20		<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter
<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 SLEP - .		

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> .	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> CH-47 D to F Conversion	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Schedule																															
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	9	4	2	3	3	3	3	4	4	4	3	5	5	5	5	6	5	6	6	7	6	7	5	7	7	7	6	7	7	12	163
Out	-	0	2	3	4	4	2	3	3	3	3	4	4	4	3	5	5	5	5	6	5	6	6	7	6	7	5	7	7	39	163

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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:**  
A05101 - CH-47 Helicopter Advance Procurement

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A05101 - CH-47 Helicopter Advance Procurement	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					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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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20	<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter Advance Procurement	<b>Item Nomenclature (Item Number, Item Name):</b> A05101 - CH-47 Helicopter Advance Procurement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP Code:</b>
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<b>First System (2013) Award Date:</b> December 2003	<b>First System (2013) Completion Date:</b> December 2006	<b>Interval Between Systems:</b> 2 Months								
<b>End Item Quantity</b>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2011</b> <i>(Each)</i>	<b>FY 2012</b> <i>(Each)</i>	<b>FY 2013</b> <i>(Each)</i>	<b>FY 2014</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>	<b>To Complete</b> <i>(Each)</i>	<b>Total</b> <i>(Each)</i>
	73	49	48	-	-	-	-	-	-	-

<b>Cost Element</b>	<b>Procurement Leadtime</b> <i>(Months)</i>	<b>When Rqd</b> <i>(Months)</i>	<b>All Prior Years</b> <i>(\$ M)</i>	<b>FY 2011</b> <i>(\$ M)</i>	<b>FY 2012</b> <i>(\$ M)</i>	<b>FY 2013</b> <i>(\$ M)</i>	<b>FY 2014</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	<b>To Complete</b> <i>(\$ M)</i>	<b>Total</b> <i>(\$ M)</i>
<b>Other</b>												
Avionics	-	16	33.339	26.543	48.382	33.338	-	-	-	-	-	-
Airframe	-	14	49.940	39.815	72.574	50.008	-	-	-	-	-	-
<i>Other Subtotal</i>			83.279	66.358	120.956	83.346	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total Advance Procurement/Obligation Authority</b>			<b>83.279</b>	<b>66.358</b>	<b>120.956</b>	<b>83.346</b>	-	-	-	-	-	-

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 1 / BSA 20			<b>P-1 Line Item Nomenclature:</b> A05101 - CH-47 Helicopter Advance Procurement			<b>Item Nomenclature (Item Name, Item Number):</b> A05101 - CH-47 Helicopter Advance Procurement	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP Code:</b>			
			<b>FY 2013</b>				
			<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost Request</b> (\$ M)		
<b>End Item</b>			-	-	83.346		
			<b>FY 2013</b>				
<b>Cost Elements</b>		<b>QPA</b> (Each)	<b>Procurement Leadtime</b> (Months)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Contract Forecast Date</b>	<b>Total Cost Request</b> (\$ M)
<b>Other</b>							
Avionics		-	-	-	-	Dec 2012	33
Airframe		-	-	-	-	Dec 2012	50
<b>Description:</b>							

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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 1 : Aircraft / BSA 20 : Rotary **P-1 Line Item Nomenclature:**  
A06500 - HELICOPTER NEW TRAINING

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

Secondary 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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> A01234 - C12 AIRCRAFT MODS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

Secondary 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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:						Other Related Program Elements:					
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :  
 Modification Of Aircraft **P-1 Line Item Nomenclature:**  
 A00020 - MQ-1 Payload - UAS

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A00020 - MQ-1 Payload - UAS	P5, P5A, P21		-	-	-	-	-	83.556	-	-	146.983	-	-	231.508	-	-	-	-	-	231.508
<b>Total Gross/Weapon System Cost</b>				<b>87.154</b>			<b>83.556</b>			<b>146.983</b>			<b>231.508</b>			-				<b>231.508</b>

\*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.

There are no FY 2013 OCO Procurement dollars.

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A00020 - MQ-1 Payload - UAS

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	83.556	146.983	231.508	-	231.508
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	83.556	146.983	231.508	-	231.508
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	83.556	146.983	231.508	-	231.508

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

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

<b>Cost Elements</b> († indicates the presence of a P-5A)	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
Recurring Cost																			
† CSP Hardware		-	-	-	760.000	24	18.240	771.000	24	18.504	889.000	32	28.448	-	-	0.000	889.000	32	28.448
CSP Battle Damaged Procurement		-	-	-	-	-	3.605	-	-	6.000	-	-	0.000	-	-	-	-	-	0.000
CSP HD Retrofit		-	-	-	-	-	0.000	-	-	0.000	-	-	6.437	-	-	0.000	-	-	6.437
CSP PMO Support		-	-	-	-	-	0.966	-	-	3.500	-	-	3.715	-	-	0.000	-	-	3.715
CSPProgram Management/ Eng Support		-	-	-	-	-	0.000	-	-	0.000	-	-	0.533	-	-	0.000	-	-	0.533
CSP Engineering Changes		-	-	-	-	-	0.000	-	-	1.782	-	-	3.033	-	-	0.000	-	-	3.033
CSP System Test & Eval		-	-	-	-	-	1.673	-	-	0.588	-	-	0.536	-	-	0.000	-	-	0.536
CSP Initial Spares		-	-	-	-	-	13.684	-	-	10.794	-	-	14.224	-	-	0.000	-	-	14.224
CSP Interim Contractor Support		-	-	-	-	-	10.008	-	-	5.977	-	-	0.385	-	-	0.000	-	-	0.385
CSP Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.025	-	-	0.000	-	-	3.025
CSP Depot Facilitization		-	-	-	-	-	0.000	-	-	6.000	-	-	4.000	-	-	0.000	-	-	4.000
CSP Technical Data Packages		-	-	-	-	-	0.000	-	-	15.798	-	-	33.486	-	-	0.000	-	-	33.486
† STARLite Hardware		-	-	-	684.000	25	17.100	711.000	24	17.064	759.000	32	24.288	-	-	0.000	759.000	32	24.288
Hardware Retrofits		-	-	-	-	-	0.000	322.000	24	7.728	-	-	11.013	-	-	0.000	-	-	11.013

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>													<b>Date:</b> February 2012						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10						<b>P-1 Line Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS						<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A00020 - MQ-1 Payload - UAS							

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
STARLite Battle Damaged Procurement		-	-	-	-	-	0.000	-	-	4.800	-	-	0.000	-	-	-	-	-	0.000
STARLite PMO Support		-	-	-	-	-	0.976	-	-	3.500	-	-	2.794	-	-	0.000	-	-	2.794
Program Management/ Eng Support		-	-	-	-	-	0.746	-	-	0.276	-	-	0.251	-	-	0.000	-	-	0.251
Engineering Changes		-	-	-	-	-	0.690	-	-	1.956	-	-	2.619	-	-	0.000	-	-	2.619
System Test & Eval		-	-	-	-	-	1.473	-	-	0.588	-	-	0.274	-	-	0.000	-	-	0.274
Initial Spares		-	-	-	-	-	13.003	-	-	11.369	-	-	12.150	-	-	0.000	-	-	12.150
Interim Contractor Support		-	-	-	-	-	1.392	-	-	8.960	-	-	0.000	-	-	-	-	-	0.000
Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.011	-	-	0.000	-	-	3.011
Depot Facilitization		-	-	-	-	-	0.000	-	-	6.000	-	-	4.000	-	-	0.000	-	-	4.000
Technical Data Packages		-	-	-	-	-	0.000	-	-	15.799	-	-	33.486	-	-	0.000	-	-	33.486
† TSP Hardware		-	-	-	-	-	0.000	-	-	0.000	1,752.000	12	21.024	-	-	0.000	1,752.000	12	21.024
TSP Program Management/ Eng Support		-	-	-	-	-	0.000	-	-	0.000	-	-	4.586	-	-	0.000	-	-	4.586
TSP Engineering Changes		-	-	-	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.500
TSPSystem Test & Eval		-	-	-	-	-	0.000	-	-	0.000	-	-	3.370	-	-	0.000	-	-	3.370
TSP Initial Spares		-	-	-	-	-	0.000	-	-	0.000	-	-	2.080	-	-	0.000	-	-	2.080
Training		-	-	-	-	-	0.000	-	-	0.000	-	-	0.570	-	-	0.000	-	-	0.570
Data		-	-	-	-	-	0.000	-	-	0.000	-	-	4.340	-	-	0.000	-	-	4.340
TSP Initial Fielding Support		-	-	-	-	-	0.000	-	-	0.000	-	-	3.330	-	-	0.000	-	-	3.330
<i>Total Recurring Cost</i>				<i>0.000</i>			<i>83.556</i>			<i>146.983</i>			<i>231.508</i>			<i>0.000</i>			<i>231.508</i>
<i>Total Flyaway Cost</i>				<i>0.000</i>			<i>83.556</i>			<i>146.983</i>			<i>231.508</i>			<i>0.000</i>			<i>231.508</i>
<b>Gross Weapon System Cost</b>				<b>-</b>			<b>83.556</b>			<b>146.983</b>			<b>231.508</b>			<b>-</b>			<b>231.508</b>

Remarks:

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS	<b>Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012													Fiscal Year 2013													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
CSP Hardware																																
	1	2011	ARMY	24	0	24	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2				
	1	2012	ARMY	24	0	24	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	10		
	1	2013	ARMY <sup>(1)</sup>	32	0	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	32			
STARLite Hardware																																
	2	2011	ARMY	25	0	25	-	-	-	-	-	-	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2					
	2	2012	ARMY	24	0	24	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	10			
	2	2013	ARMY <sup>(2)</sup>	32	0	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	32			
TSP Hardware																																
	3	2013	ARMY <sup>(3)</sup>	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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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

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014												Fiscal Year 2015											
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
CSP Hardware																														
	1	2011	ARMY	24	24	0																								
	1	2012	ARMY	24	14	10	2	2	2	2	2																			
	1	2013	ARMY <sup>(1)</sup>	32	0	32	-	-	-	-	-	3	3	3	3	3	3	3	3	2	2	2	2							
STARLite Hardware																														
	2	2011	ARMY	25	25	0																								
	2	2012	ARMY	24	14	10	2	2	2	2	2																			
	2	2013	ARMY <sup>(2)</sup>	32	0	32	-	-	-	-	-	3	3	3	3	3	3	3	3	2	2	2	2							
TSP Hardware																														
	3	2013	ARMY <sup>(3)</sup>	12	0	12	-	-	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	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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS	<b>Item Nomenclature:</b> A00020 - MQ-1 Payload - UAS

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Raytheon - McKinney, TX	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:**  
 ‡ 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.  
 (1)BASE  
 (2)BASE  
 (3)BASE

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> A00025 - MQ-1 Weaponization - UAS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	-	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
A00025 - MQ-1 Weaponization - UAS	P5		-	-	-	-	-	14.729	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					-			<b>14.729</b>			-			-			-			-

\*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**

<b>Exhibit P-5, Cost Analysis:</b> PB 2013 Army		Date: February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00025 - MQ-1 Weaponization - UAS	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> A00025 - MQ-1 Weaponization - UAS

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	14.729	-	-	-	-
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	14.729	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	14.729	-	-	-	-

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

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

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
Weaponization Effort - OGA		-	-	-	-	-	14.729	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
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
<b>Gross Weapon System Cost</b>				-			<b>14.729</b>			-			-			-			-

Remarks:

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)
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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)	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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

- 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.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Guardrail MODS MIP - 0	P3A		-	-	711.708	-	-	31.650	-	-	27.575	-	-	16.272	-	-	-	-	-	16.272
<b>Total Gross/Weapon System Cost</b>					<b>711.708</b>			<b>31.650</b>			<b>27.575</b>			<b>16.272</b>						<b>16.272</b>

		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Guardrail MODS MIP - 0	P3A		-	-	10.262	-	-	8.311	-	-	11.806	-	-	5.272	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>10.262</b>			<b>8.311</b>			<b>11.806</b>			<b>5.272</b>						

\*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

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

<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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

**Development Status/Major Development Milestones**

<b>Date</b>	<b>Title</b>	<b>Description</b>
Aug 2011	None	N/A

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14				<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
Enhanced Situational Awareness (ESA) Subsystem <sup>(1)</sup>													
A Kits													
Recurring													
NRE ESA	0	139.297	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Recur ESA B-Kit	29	89.548	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Recur A-Kit (Racks/Cable)	35	54.385	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Recur A-Kit (Airframe)	60	39.348	4	11.000	0	0.000	0	0.000	0	0.000	0	0.000	
Recur Nav/Timing	35	20.848	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
NRE Data Link Air	34	25.664	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Recur Data Link Ground	0	1.830	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Spare ESA B-Kit	4	12.323	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Eng Lab Asset ESA B-Kit	2	4.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Aircraft Upgrade Cockpit	16	33.101	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
System Integration	0	10.100	3	8.600	4	11.700	0	0.000	0	0.000	0	0.000	
Retrofit	0	0.000	0	0.000	0	0.000	7	7.563	0	0.000	7	7.563	
Sys Assessment/Test Spt	0	12.002	0	1.500	0	1.500	0	1.500	0	0.000	0	1.500	
Training Supt	0	2.900	0	1.500	0	0.000	0	1.500	0	0.000	0	1.500	
Fielding (CHALS/ESA/HBC)	0	17.699	0	3.500	4	6.000	7	2.200	0	0.000	7	2.200	
PM Support	0	68.444	0	4.550	0	6.875	0	3.509	0	0.000	0	3.509	
Initial Spares Provision	0	3.951	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		536.340		30.650		26.075		16.272		0.000		16.272	
<i>Total, Enhanced Situational Awareness (ESA) Subsystem</i>	215	536.340	7	30.650	8	26.075	14	16.272	0	0.000	14	16.272	
Comm High Accuracy Location Sys-Compact (CHALS-C) <sup>(2)</sup>													
A Kits													
Recurring													
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Comm High Accuracy Location Sys-Compact (CHALS-C</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
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	0.000
Manuals/Training Doc	0	0.676	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Production 1553 Cards	0	2.776	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Test Support	0	2.626	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Initial Spares	4	2.225	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support/TDY	0	0.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Integrate/Field Supt/Korea	0	1.318	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		26.853		0.000		0.000		0.000		0.000		0.000
<i>Total, Comm High Accuracy Location Sys-Compact (CHALS-C</i>	34	26.853	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Special Signals (SS) Subsystem <sup>(4)</sup>												
A Kits												
Recurring												
NRE/Study	0	5.029	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Spare SS V3 B-Kits	0	0.406	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
X-Midas V.3	66	20.433	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		25.868		0.000		0.000		0.000		0.000		0.000
<i>Total, Special Signals (SS) Subsystem</i>	66	25.868	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Guardrail Ground Base (GGB) Station <sup>(5)</sup>												
A Kits												
Recurring												



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
Hardware	0	2.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Integration & Test	0	8.706	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Spares	0	0.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Docs	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Licenses/Hardware	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Hardware Data Link (Ground)	0	0.939	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		13.345		0.000		0.000		0.000		0.000		0.000
<i>Total, Guardrail Ground Base (GGB) Station</i>	0	13.345	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
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	0.000
Recurring HBC B-Kits	15	20.430	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
QRC-P Support	0	5.425	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Full B-Kit	19	26.408	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		65.758		0.000		0.000		0.000		0.000		0.000
<i>Total, High Band COMINT (HBC) Subsystem</i>	34	65.758	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Electronic Intelligence (ELINT) Subsystem <sup>(7)</sup>												
A Kits												
Recurring												
Recurring P-Pod	21	22.016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Non-Recurring	0	4.090	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Spare AQL Process B-Kits	33	4.398	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		30.504		0.000		0.000		0.000		0.000		0.000
<i>Total, Electronic Intelligence (ELINT) Subsystem</i>	54	30.504	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Airborne Precision Geolocation (APG) <sup>(8)</sup>												
A Kits												
Recurring												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10					<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14				<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ 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	
<i>Subtotal Recurring</i>		11.518		0.000		0.000		0.000		0.000		0.000	
<i>Total, Airborne Precision Geolocation (APG)</i>	0	11.518	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Total, All Modifications</i>		710.186		30.650		26.075		16.272		0.000		16.272	
<i>Procurement Cost (Procurement + Support)</i>		710.186		30.650		26.075		16.272		0.000		16.272	
<i>Total Installation Cost</i>		1.522		1.000		1.500		0.000		0.000		0.000	
<b>Total Cost (Procurement + Support + Installation)</b>		711.708		31.650		27.575		16.272		0.000		16.272	
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Enhanced Situational Awareness (ESA) Subsystem <sup>(1)</sup>													
A Kits													
Recurring													
NRE ESA	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	139.297	
Recur ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	29	89.548	
Recur A-Kit (Racks/Cable)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	54.385	
Recur A-Kit (Airframe)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	64	50.348	
Recur Nav/Timing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	20.848	
NRE Data Link Air	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	25.664	
Recur Data Link Ground	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.830	
Spare ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	12.323	
Eng Lab Asset ESA B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	4.900	
Aircraft Upgrade Cockpit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	33.101	
System Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	30.400	
Retrofit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	7	7.563	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Sys Assessment/Test Spt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.502
Training Supt	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.900
Fielding (CHALS/ESA/HBC)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	11	29.399
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	83.378
Initial Spares Provision	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.951
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>609.337</i>
<i>Total, Enhanced Situational Awareness (ESA) Subsystem</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>244</i>	<i>609.337</i>
Comm High Accuracy Location Sys-Compact (CHALS-C <sup>(2)</sup> )												
A Kits												
Recurring												
Installation Kits	0	2.699	0	2.600	0	6.500	0	1.623	0	0.000	0	13.422
Equipment	0	2.100	0	1.700	0	1.144	0	1.199	0	0.000	0	6.143
Training Equipment	0	2.000	0	1.100	0	1.000	0	1.025	0	0.000	0	5.125
Support Equipment	0	2.500	0	1.800	0	1.500	0	0.925	0	0.000	0	6.725
PM Support	0	0.963	0	1.111	0	1.662	0	0.500	0	0.000	0	4.236
<i>Subtotal Recurring</i>		<i>10.262</i>		<i>8.311</i>		<i>11.806</i>		<i>5.272</i>		<i>0.000</i>		<i>35.651</i>
<i>Total, Comm High Accuracy Location Sys-Compact (CHALS-C</i>	<i>0</i>	<i>10.262</i>	<i>0</i>	<i>8.311</i>	<i>0</i>	<i>11.806</i>	<i>0</i>	<i>5.272</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>35.651</i>
Comm High Accuracy Location Sys-Compact (CHALS-C <sup>(3)</sup> )												
A Kits												
Recurring												
Recurring CHALS-C HW	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	30	16.632
Manuals/Training Doc	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.676
Production 1553 Cards	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.776
Test Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.626
Initial Spares	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	2.225
PM Support/TDY	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.600
Integrate/Field Supt/Korea	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.318
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>26.853</i>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0			
<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Total, Comm High Accuracy Location Sys-Compact (CHALS-C</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	26.853
Special Signals (SS) Subsystem <sup>(4)</sup>												
A Kits												
Recurring												
NRE/Study	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.029
Spare SS V3 B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.406
X-Midas V.3	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	66	20.433
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		25.868
<i>Total, Special Signals (SS) Subsystem</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	66	25.868
Guardrail Ground Base (GGB) Station <sup>(5)</sup>												
A Kits												
Recurring												
Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.300
Integration & Test	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.706
Spares	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.400
Docs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.500
Licenses/Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.500
Hardware Data Link (Ground)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.939
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		13.345
<i>Total, Guardrail Ground Base (GGB) Station</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.345
High Band COMINT (HBC) Subsystem <sup>(6)</sup>												
A Kits												
Recurring												
Nonrecurring Engr	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.495
Recurring HBC B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	20.430
QRC-P Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.425
Full B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	19	26.408
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		65.758

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Total, High Band COMINT (HBC) Subsystem</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	65.758
Electronic Intelligence (ELINT) Subsystem <sup>(7)</sup>												
A Kits												
Recurring												
Recurring P-Pod	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	21	22.016
Non-Recurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.090
Spare AQL Process B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	33	4.398
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		30.504
<i>Total, Electronic Intelligence (ELINT) Subsystem</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	54	30.504
Airborne Precision Geolocation (APG) <sup>(8)</sup>												
A Kits												
Recurring												
A-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.387
APG B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.655
APG B-Kit Spare	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.476
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		11.518
<i>Total, Airborne Precision Geolocation (APG)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	11.518
<b>Total, All Modifications</b>		10.262		8.311		11.806		5.272		0.000		818.834
<i>Procurement Cost (Procurement + Support)</i>		10.262		8.311		11.806		5.272		0.000		818.834
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		4.022
<b>Total Cost (Procurement + Support + Installation)</b>		10.262		8.311		11.806		5.272		0.000		822.856

**Remarks:**  
<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.

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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0
<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
<p>(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.</p> <p>Justification: There is no FY13 funding request.</p> <p>(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 Cooperataive Operations.</p> <p>Justification: There is no funding request for FY13.</p> <p>(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.</p> <p>Justification: There is no funding request for FY13.</p> <p>(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.</p> <p>Justification: There is no funding request for FY13.</p> <p>(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.</p> <p>Justification: There is no funding request for FY13.</p> <p>(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.</p> <p>Justification: There is no funding request for FY13.</p> <p>(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.</p> <p>Justification: There is no funding request for FY13.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0	
<b>Models of Systems Affected:</b> 1-14			<b>Type Modification:</b> 0			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Enhanced Situational Awareness (ESA) Subsystem</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Comm High Accuracy Location Sys-Compact (CHALS-C)</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Comm High Accuracy Location Sys-Compact (CHALS-C)</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Owego, NY			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Special Signals (SS) Subsystem</b>							
Manufacturer Name: Zeta Associates				Manufacturer Location: Fairfax, VA			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Guardrail Ground Base (GGB) Station</b>							
Manufacturer Name: CACI				Manufacturer Location: Falls Church, VA			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

**UNCLASSIFIED**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: High Band COMINT (HBC) Subsystem**

Manufacturer Name: Boeing-Radix	Manufacturer Location: Mountain View, CA
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Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Manufacturer Information: Electronic Intelligence (ELINT) Subsystem**

Manufacturer Name: Northrop Grumman	Manufacturer Location: Sacramento, CA
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Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Manufacturer Information: Airborne Precision Geolocation (APG)**

Manufacturer Name: Northrop Grumman	Manufacturer Location: Sacramento, CA
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Administrative Leadtime ( <i>in Months</i> ): 3	Production Leadtime ( <i>in Months</i> ): 12
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Installation: Enhanced Situational Awareness (ESA) Subsystem**      **Method of Implementation:** .      **Installation Name:**

Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	10	0.510	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	6	0.314	3	1.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	7	0.373	0	0.000	4	1.500	0	0.000	0	0.000	0	0.000
FY 2013	6	0.325	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



**UNCLASSIFIED**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Enhanced Situational Awareness (ESA) Subsystem	<b>Method of Implementation:</b> .	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	29	1.522	3	1.000	4	1.500	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	0.510
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	9	1.314
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	11	1.873
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	6	0.325
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	36	4.022

Installation Schedule																																	
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	-	14	0	0	0	0	0	0	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	0	0	14

<b>Installation:</b> Comm High Accuracy Location Sys-Compact (CHALS-C)	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Comm High Accuracy Location Sys-Compact (CHALS-C)	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

**UNCLASSIFIED**

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

<b>Installation:</b> Comm High Accuracy Location Sys-Compact (CHALS-C)	<b>Method of Implementation:</b> Installation and fielding of the B-Kits under the ESA Modification	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Comm High Accuracy Location Sys-Compact (CHALS-C)	<b>Method of Implementation:</b> Installation and fielding of the B-Kits under the ESA Modification	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0
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	0

<b>Installation:</b> Special Signals (SS) Subsystem	<b>Method of Implementation:</b> Production, integration, and testing of X-Midas V3 hardware.	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

**UNCLASSIFIED**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Special Signals (SS) Subsystem	<b>Method of Implementation:</b> Production, integration, and testing of X-Midas V3 hardware.	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Schedule																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	7	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	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	0	0	0	0	14

<b>Installation:</b> Guardrail Ground Base (GGB) Station	<b>Method of Implementation:</b> Provide Hardware/Software upgrades to the GGB.	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Guardrail Ground Base (GGB) Station	<b>Method of Implementation:</b> Provide Hardware/Software upgrades to the GGB.	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> High Band COMINT (HBC) Subsystem	<b>Method of Implementation:</b> Production, integration, and testing of hardware.	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): Guardrail MODS MIP - 0		

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> High Band COMINT (HBC) Subsystem	<b>Method of Implementation:</b> Production, integration, and testing of hardware.	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Schedule																																	
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	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	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	0	0	14

**UNCLASSIFIED**

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

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Electronic Intelligence (ELINT) Subsystem	<b>Method of Implementation:</b> Processing Hardware B-Kits for 14 aircraft.	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): Guardrail MODS MIP - 0		

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Electronic Intelligence (ELINT) Subsystem	<b>Method of Implementation:</b> Processing Hardware B-Kits for 14 aircraft.	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0
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	0

<b>Installation:</b> Airborne Precision Geolocation (APG)	<b>Method of Implementation:</b> Incorporate the APG subsystem into GRCS RC-12X aircraft.	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2000 - Guardrail Mods (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Guardrail MODS MIP - 0

<b>Models of Systems Affected:</b> 1-14	<b>Type Modification:</b> 0	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Airborne Precision Geolocation (APG)	<b>Method of Implementation:</b> Incorporate the APG subsystem into GRCS RC-12X aircraft.	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Schedule</b>																																							
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>								
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>										
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	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	0	0	0	0	0	0	0	0	14

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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).

Secondary 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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
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Item Schedule			Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
*** (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
<b>Total Gross/Weapon System Cost</b>					<b>573.247</b>			<b>103.084</b>			<b>62.862</b>			<b>4.294</b>			<b>-</b>			<b>4.294</b>

  

			FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
*** (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	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>4.807</b>			<b>116.138</b>			<b>145.668</b>			<b>148.158</b>			<b>-</b>			<b>-</b>

\*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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000		
<b>Models of Systems Affected:</b> ARL-M				<b>Type Modification:</b> Operational				<b>Related RDT&amp;E PEs:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	573.247	16.884	8.362	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	16.884	8.362	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	16.884	8.362	4.294	-	4.294	4.807	116.138	145.668	148.158	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> Mod-In-Service												
<b>Development Status/Major Development Milestones</b>												
<b>Date</b>	<b>Title</b>						<b>Description</b>					
May 2011	Final ARL M Conversion Delivered						Completed					

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000			
<b>Models of Systems Affected:</b> ARL-M				<b>Type Modification:</b> Operational						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
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	0.255	
Datalink Hardware	0	0.000	0	0.500	0	1.000	0	0.515	0	0.000	0	0.515	
Software	0	0.000	0	2.410	0	0.300	0	1.449	0	0.000	0	1.449	
Program Mgt	0	0.000	0	0.400	0	0.270	0	0.400	0	0.000	0	0.400	
Spares	0	0.000	0	0.100	0	0.100	0	0.225	0	0.000	0	0.225	
Tech Refresh	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>3.650</i>		<i>2.150</i>		<i>2.844</i>		<i>0.000</i>		<i>2.844</i>	
<i>Total, System Interoperability</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>3.650</i>	<i>0</i>	<i>2.150</i>	<i>0</i>	<i>2.844</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>2.844</i>	
Workstation Architecture <sup>(2)</sup>													
B Kits													
Recurring													
SW PC Client Server	0	0.000	0	1.300	0	1.200	0	0.600	0	0.000	0	0.600	
Initial Spares	0	0.000	0	1.500	0	0.000	0	0.000	0	0.000	0	0.000	
Program Management	0	0.000	0	0.300	0	0.200	0	0.100	0	0.000	0	0.100	
Sustainability Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>3.100</i>		<i>1.400</i>		<i>0.700</i>		<i>0.000</i>		<i>0.700</i>	
<i>Total, Workstation Architecture</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>3.100</i>	<i>0</i>	<i>1.400</i>	<i>0</i>	<i>0.700</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.700</i>	
COMINT Upgrades <sup>(3)</sup>													
B Kits													
Recurring													
Calibration & Test	0	0.000	0	0.100	0	0.100	0	0.000	0	0.000	0	0.000	
Program Mgt	0	0.000	0	0.300	0	0.300	0	0.000	0	0.000	0	0.000	
Signal Processing SW	0	0.000	0	0.300	0	0.300	0	0.000	0	0.000	0	0.000	
Frequency Extension Antenna	0	0.000	0	1.784	0	0.000	0	0.000	0	0.000	0	0.000	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000				
<b>Models of Systems Affected:</b> ARL-M			<b>Type Modification:</b> Operational				<b>Related RDT&amp;E PEs:</b>						
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<i>Subtotal Recurring</i>		0.000		2.484		0.700		0.000		0.000		0.000	
<i>Total, COMINT Upgrades</i>	0	0.000	0	2.484	0	0.700	0	0.000	0	0.000	0	0.000	
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	0.000	
Program Mgt	0	0.000	0	0.200	0	0.200	0	0.000	0	0.000	0	0.000	
Sustainability Improvements	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		0.000		1.500		1.662		0.000		0.000		0.000	
<i>Total, Radar</i>	0	0.000	0	1.500	0	1.662	0	0.000	0	0.000	0	0.000	
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	0.000	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000	
NonRecurring													
NRE	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		0.000	
B Kits													
Recurring													
LIDAR	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Wide Area Surveillance	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Digital Pan Camera/Mapping	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FOLPEN	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
High Spectral Imaging	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
COMINT Upgrade/ Refresh	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
RADAR (MTI/SAR/DMTI)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Workstations & Comms	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	

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



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000			
<b>Models of Systems Affected:</b> ARL-M			<b>Type Modification:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Datalink A-Kit	0	0.240	0	0.000	0	0.000	0	0.000	0	0.000	0	1.215
Datalink Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.015
Software	0	0.200	0	0.100	0	0.000	0	0.000	0	0.000	0	4.459
Program Mgt	0	0.200	0	0.200	0	0.000	0	0.000	0	0.000	0	1.470
Spares	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.425
Tech Refresh	0	0.860	0	1.379	0	0.000	0	0.000	0	0.000	0	2.239
<i>Subtotal Recurring</i>		1.500		1.679		0.000		0.000		0.000		11.823
<i>Total, System Interoperability</i>	0	1.500	0	1.679	0	0.000	0	0.000	0	0.000	0	11.823
Workstation Architecture <sup>(2)</sup>												
B Kits												
Recurring												
SW PC Client Server	0	1.000	0	0.900	0	0.000	0	0.000	0	0.000	0	5.000
Initial Spares	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.500
Program Management	0	0.100	0	0.100	0	0.163	0	0.165	0	0.000	0	1.128
Sustainability Upgrades	0	0.000	0	0.000	0	1.472	0	1.487	0	0.000	0	2.959
<i>Subtotal Recurring</i>		1.100		1.000		1.635		1.652		0.000		10.587
<i>Total, Workstation Architecture</i>	0	1.100	0	1.000	0	1.635	0	1.652	0	0.000	0	10.587
COMINT Upgrades <sup>(3)</sup>												
B Kits												
Recurring												
Calibration & Test	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.200
Program Mgt	0	0.100	0	0.100	0	0.163	0	0.165	0	0.000	0	1.128
Signal Processing SW	0	0.907	0	0.976	0	1.471	0	1.485	0	0.000	0	5.439
Frequency Extension Antenna	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.784
<i>Subtotal Recurring</i>		1.007		1.076		1.634		1.650		0.000		8.551
<i>Total, COMINT Upgrades</i>	0	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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000				
<b>Models of Systems Affected:</b> ARL-M				<b>Type Modification:</b> Operational					<b>Related RDT&amp;E PEs:</b>				
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
Recurring													
SW Improvements	0	1.080	0	1.000	0	0.000	0	0.000	0	0.000	0	4.842	
Program Mgt	0	0.120	0	0.100	0	0.163	0	0.165	0	0.000	0	0.948	
Sustainability Improvements	0	0.000	0	0.000	0	1.471	0	1.485	0	0.000	0	2.956	
<i>Subtotal Recurring</i>		1.200		1.100		1.634		1.650		0.000		8.746	
<i>Total, Radar</i>	0	1.200	0	1.100	0	1.634	0	1.650	0	0.000	0	8.746	
Element IV Payload Migration <sup>(5)</sup>													
A Kits													
Recurring													
Aircraft DHC-8,Cockpit, ASE	0	0.000	0	40.895	0	23.502	0	17.065	0	0.000	0	81.462	
<i>Subtotal Recurring</i>		0.000		40.895		23.502		17.065		0.000		81.462	
NonRecurring													
NRE	0	0.000	0	4.140	0	4.164	0	0.000	0	0.000	0	8.304	
<i>Subtotal NonRecurring</i>		0.000		4.140		4.164		0.000		0.000		8.304	
B Kits													
Recurring													
LIDAR	0	0.000	0	14.219	0	1.722	0	1.777	0	0.000	0	17.718	
Wide Area Surveillance	0	0.000	0	12.977	0	2.096	0	2.163	0	0.000	0	17.236	
Digital Pan Camera/Mapping	0	0.000	0	0.987	0	4.099	0	1.268	0	0.000	0	6.354	
FOLPEN	0	0.000	0	1.560	0	17.192	0	12.255	0	0.000	0	31.007	
High Spectral Imaging	0	0.000	0	0.000	0	5.163	0	5.328	0	0.000	0	10.491	
COMINT Upgrade/ Refresh	0	0.000	0	0.000	0	14.133	0	21.662	0	0.000	0	35.795	
RADAR (MTI/SAR/DMTI)	0	0.000	0	0.000	0	9.666	0	30.400	0	0.000	0	40.066	
Workstations & Comms	0	0.000	0	0.000	0	8.142	0	3.371	0	0.000	0	11.513	
HD Sensors	0	0.000	0	7.880	0	7.750	0	7.973	0	0.000	0	23.603	
CDL/BLOS/SATCOM	0	0.000	0	2.405	0	1.560	0	1.790	0	0.000	0	5.755	
Test	0	0.000	0	3.779	0	11.068	0	8.840	0	0.000	0	23.687	
Program Mgt	0	0.000	0	3.406	0	5.206	0	5.303	0	0.000	0	13.915	
Training	0	0.000	0	0.000	0	0.000	0	1.518	0	0.000	0	1.518	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Data	0	0.000	0	1.580	0	1.580	0	1.913	0	0.000	0	5.073
Initial Spares	0	0.000	0	15.000	0	17.784	0	17.363	0	0.000	0	50.147
<i>Subtotal Recurring</i>		0.000		63.793		107.161		122.924		0.000		293.878
<i>Total, Element IV Payload Migration</i>	0	0.000	0	108.828	0	134.827	0	139.989	0	0.000	0	383.644
ARL-C to ARL-M Conversion <sup>(6)</sup>												
B Kits												
Recurring												
Air Worthiness Release	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.400
Test & Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.000
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.800
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		5.200
<i>Total, ARL-C to ARL-M Conversion</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.200
<i>Total, All Modifications</i>		4.807		113.683		139.730		144.941		0.000		428.551
<i>Procurement Cost (Procurement + Support)</i>		4.807		113.683		139.730		144.941		0.000		428.551
<i>Total Installation Cost</i>		0.000		2.455		5.938		3.217		0.000		589.007
<b>Total Cost (Procurement + Support + Installation)</b>		<b>4.807</b>		<b>116.138</b>		<b>145.668</b>		<b>148.158</b>		<b>0.000</b>		<b>1,017.558</b>

**Remarks:**

<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.

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

<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.

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

<sup>(3)</sup>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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army					<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000		
<b>Models of Systems Affected:</b> ARL-M			<b>Type Modification:</b> Operational		<b>Related RDT&amp;E PEs:</b>		
<p>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.</p> <p>Justification: There is no FY13 funding for this Mod.</p> <p>(4)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&amp;W, and Counter Special Operations Forces (CSOF) missions.</p> <p>Justification: There is no FY13 funding for this Mod.</p> <p>(5)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.</p> <p>Justification: There is no FY13 procurement funding request, procurement funding begins FY15.</p> <p>(6)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.</p> <p>Justification: There is no FY13 procurement funding request, this modification is completed.</p>							
<b>Manufacturer Information: System Interoperability</b>							
Manufacturer Name: LMIS/SNC				Manufacturer Location: Hagerstown, MD			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Nov 2010	Nov 2011	Nov 2012	Nov 2013	Nov 2014		
Delivery Dates	May 2011	Jun 2012	Jun 2013	Nov 2014	Nov 2015		
<b>Manufacturer Information: Workstation Architecture</b>							
Manufacturer Name: LMIS/SNC				Manufacturer Location: Hagerstown, MD			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Nov 2010	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2017
Delivery Dates	Jan 2012	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2018

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000				
<b>Models of Systems Affected:</b> ARL-M			<b>Type Modification:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
<b>Manufacturer Information: COMINT Upgrades</b>												
Manufacturer Name: LMIS/BAE						Manufacturer Location: Nashua, NH						
Administrative Leadtime ( <i>in Months</i> ): 1						Production Leadtime ( <i>in Months</i> ): 4						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates	Jun 2011	Nov 2011		Nov 2013	Nov 2014	Nov 2016	Nov 2017					
Delivery Dates	Mar 2012	Sep 2012		Nov 2014	Nov 2015	Nov 2017	Nov 2018					
<b>Manufacturer Information: Radar</b>												
Manufacturer Name: LM Goodyear						Manufacturer Location: Phoenix, AZ						
Administrative Leadtime ( <i>in Months</i> ): 1						Production Leadtime ( <i>in Months</i> ): 4						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates	Nov 2010	Dec 2011		Nov 2013	Nov 2014	Nov 2015	Nov 2016					
Delivery Dates	Nov 2011	Nov 2012		Nov 2014	Nov 2015	Nov 2016	Nov 2017					
<b>Manufacturer Information: Element IV Payload Migration</b>												
Manufacturer Name: Unknown						Manufacturer Location: Unknown						
Administrative Leadtime ( <i>in Months</i> ): 9						Production Leadtime ( <i>in Months</i> ): 9						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates					Nov 2014							
Delivery Dates					Sep 2016							
<b>Manufacturer Information: ARL-C to ARL-M Conversion</b>												
Manufacturer Name: LMIS/SNC						Manufacturer Location: Hagerstown, MD						
Administrative Leadtime ( <i>in Months</i> ): 1						Production Leadtime ( <i>in Months</i> ): 3						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates	Dec 2011											
Delivery Dates	Jun 2011											
<b>Installation: System Interoperability</b>												
<b>Method of Implementation:</b> Contractor				<b>Installation Name:</b>								
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
	All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0
FY 2011	0	573.247	1	0.750	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): ARL Mod-In-Service - 000		

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> System Interoperability	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
FY 2012	0	0.000	0	0.000	2	1.250	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	1	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	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
<b>Total</b>	<b>0</b>	<b>573.247</b>	<b>1</b>	<b>0.750</b>	<b>2</b>	<b>1.250</b>	<b>1</b>	<b>0.750</b>	<b>0</b>	<b>0.000</b>	<b>1</b>	<b>0.750</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	573.997
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	1.250
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	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	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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>4</b>	<b>575.997</b>

Installation Schedule																																	
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	-	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	-	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Workstation Architecture	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Workstation Architecture	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0	0
Out	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	0	0

<b>Installation:</b> COMINT Upgrades	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): ARL Mod-In-Service - 000		

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> COMINT Upgrades	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2	1.400

Installation Schedule		FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

<b>Installation:</b> Radar	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): ARL Mod-In-Service - 000		

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Radar	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
		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	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	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	0	3

<b>Installation:</b> Element IV Payload Migration	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)
		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Element IV Payload Migration	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																																
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
	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	-	0	0	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	-	0	0	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

<b>Installation:</b> ARL-C to ARL-M Conversion	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ARL Mod-In-Service - 000

<b>Models of Systems Affected:</b> ARL-M	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> ARL-C to ARL-M Conversion	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0	0
Out	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**UNCLASSIFIED**

<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2013 Army														<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10						<b>P-1 Line Item Nomenclature:</b> AZ2001 - Multi Sensor ABN Recon (MIP)						<b>Aggregated Item Name:</b> Various							
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>(Uncategorized)</b>																			
AZ2052 - ARMS MARSS MODS (MIP)		-	-	-	-	-	41.700	-	-	39.500	-	-	-	-	-	-	-	-	-
AZ2054 - CONSTANT HAWK (MIP)		-	-	-	-	-	12.400	-	-	15.000	-	-	-	-	-	-	-	-	-
AZ2056 - ABN ISR MODS (MIP)		-	-	-	-	-	32.100	-	-	-	-	-	-	-	-	-	-	-	-
<i>Uncategorized Subtotal</i>				0.000			86.200			54.500			0.000			0.000			0.000
<b>Total</b>				<b>0.000</b>			<b>86.200</b>			<b>54.500</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>

**UNCLASSIFIED**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** 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) **Aggregated Item Name:** Various

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

**Remarks:**

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :  
Modification Of Aircraft

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

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 day television (DTV) sensor, a Forward Looking Infrared (FLIR) sensor for day and night visibility as well as limited adverse weather operations, a Laser Spot Tracker (LST) and Laser Rangefinder/Designator (LRFD). The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth flight operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Longbow is armed with the Hellfire Antitank Missile, 2.75 inch rockets and a 30mm gun capable of defeating armor.

The AH-64 Mods program allows for near-term operationally driven improvements to the Apache fleet, focusing on deployment lessons learned, reliability improvements, and solving obsolescence issues. Improvements will occur to the Airframe, Armament, Communications, Manned/Unmanned Teaming, Navigation, Sensors, Survivability, Support Elements, and Training Systems. Examples of modifications include Selected Component Recapitalization, Airframe and Sensor Obsolescence upgrades, Software upgrades, Condition Based Maintenance (CBM), Trainer upgrades, the Lightweight Missile launcher (LWML) and Computer/Processing and Data Display and Control upgrades. 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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AH-64 Modifications - 0000	P3A		-	-	4,977.168	-	-	1,045.740	-	-	331.230	-	-	178.805	-	-	-	-	-	178.805
<b>Total Gross/Weapon System Cost</b>					<b>4,977.168</b>			<b>1,045.740</b>			<b>331.230</b>			<b>178.805</b>			<b>-</b>			<b>178.805</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AH-64 Modifications - 0000	P3A		-	-	167.356	-	-	86.691	-	-	113.448	-	-	74.922	-	-	580.576	-	-	7,555.936
<b>Total Gross/Weapon System Cost</b>					<b>167.356</b>			<b>86.691</b>			<b>113.448</b>			<b>74.922</b>			<b>580.576</b>			<b>7,555.936</b>

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

<b>Models of Systems Affected:</b> Longbow Apache	<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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
<b>Total Obligation Authority (\$ in Millions)</b>	<b>4,977.168</b>	<b>1,045.740</b>	<b>331.230</b>	<b>178.805</b>	<b>-</b>	<b>178.805</b>	<b>167.356</b>	<b>86.691</b>	<b>113.448</b>	<b>74.922</b>	<b>580.576</b>	<b>7,555.936</b>

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

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

**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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> AH-64 Modifications - 0000
<b>Models of Systems Affected:</b> Longbow Apache	<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues	<b>Related RDT&amp;E PEs:</b>
<p>guided weapons. M-LFRD replaces the obsolete Laser Transceiver Unit, which mitigates ongoing obsolescence risks, improves reliability and maintainability, and reduces operations and support costs. The MRFI Processor, Receiver, and Antenna solve obsolescence issues on the Single Board Computer and the Parameter Measurement Unit chip. The Enhanced Imaging Intensifier (EI2) Camera will provide performance for fusing visible/near infrared imagery with forward looking infrared (FLIR) imagery, enhanced capability for image fusion and stand alone capability for pilotage which allows the pilot to switch between FLIR, fused and EI2. Funding will satisfy emerging requirements for modernizing and revolving obsolescence on all Apache Sensors.</p> <p>Support Elements include the modification and production of those items, which are not part of the aircraft system but are required to maintain, service, or calibrate the aircraft systems or portions of the aircraft system while not directly engaged in the performance of its mission and will not be in the inventory for support of other weapon systems. Post Production Organic support establishes Depot Pilot Programs at Corpus Christi Army Depot (CCAD) and Tobyhanna Army Depot (TYAD) for selected Depot Level Repairables (DLR) as part of the Original Equipment Manufacturer (OEM) to Depot Transition. Post Production Organic Support (PPOS) provides Depot Maintenance Plant Equipment, Special Tools and Test Equipment, labor training and associated technical data for future repairs once the DLR has transitioned to the depot. PPOS improves Repair Turn Around Time and retain depot maintenance capabilities.</p> <p>Training Systems include deliverable training services, devices, accessories, aids, equipment, and parts used to facilitate instruction through which personnel will learn to operate and maintain the system with maximum efficiency. Examples include Operator / Maintainer Training (aircraft/classroom), obsolescence and training concurrency to training device systems, and updates to allow individual/team training tasks and collective training. Efforts include the production and upgrade of deliverable training equipment and associated software.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<b>Procurement</b>												
Apache Sensors Life Extension & Upgrade <sup>(1)</sup>												
A Kits												
Recurring												
Kit Quantity	633	106.000	36	8.005	45	10.592	0	0.000	0	0.000	0	0.000
Equipment (GFE)	0	44.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Visible Near Infrared (V/NIR)	0	0.000	0	28.600	0	0.000	0	0.000	0	0.000	0	0.000
Other	0	5.500	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>156.400</i>		<i>37.405</i>		<i>10.592</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Apache Sensors Life Extension &amp; Upgrade</i>	633	156.400	36	37.405	45	10.592	0	0.000	0	0.000	0	0.000
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	0.000
<i>Subtotal Recurring</i>		<i>736.200</i>		<i>6.359</i>		<i>9.031</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, AH-64A MISC Mods \$5M or less (no P3a set)</i>	0	736.200	0	6.359	0	9.031	0	0.000	0	0.000	0	0.000
Apache Transformation (no P3a set) <sup>(2)</sup>												
A Kits												
Recurring												
Sets, Kits & Outfits (SKO)	0	20.000	0	0.000	0	3.990	0	0.000	0	0.000	0	0.000
Equipment, NGF	0	29.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
ASL/PLL	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>51.100</i>		<i>0.000</i>		<i>3.990</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Apache Transformation (no P3a set)</i>	0	51.100	0	0.000	0	3.990	0	0.000	0	0.000	0	0.000
Modernized TADS/PNVs (M-TADS) <sup>(3)</sup>												
A Kits												
Recurring												

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

<b>Models of Systems Affected:</b> Longbow Apache	<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Equipment	530	785.700	12	25.100	0	50.830	0	0.000	0	0.000	0	0.000
Equipment (OCO)	0	0.000	23	49.070	0	0.000	0	0.000	0	0.000	0	0.000
TEDAC/IHDSS	0	67.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Other Support	0	42.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>895.100</i>		<i>74.170</i>		<i>50.830</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Modernized TADS/PNVS (M-TADS)</i>	<i>530</i>	<i>895.100</i>	<i>35</i>	<i>74.170</i>	<i>0</i>	<i>50.830</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Video from UAS Interoperability Teaming (VUIT-2) <sup>(4)</sup>												
A Kits												
Recurring												
VUIT-2 -- FY10 OCO	48	91.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
VUIT-2 -- FY11 OCO	0	0.000	144	170.600	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>91.900</i>		<i>170.600</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Video from UAS Interoperability Teaming (VUIT-2)</i>	<i>48</i>	<i>91.900</i>	<i>144</i>	<i>170.600</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Apache Product Improvements <sup>(5)</sup>												
A Kits												
Recurring												
CBM Hardware/VMEP	368	13.100	0	0.000	60	4.500	0	0.000	0	0.000	0	0.000
Other Recap	0	37.600	0	2.200	0	8.300	0	0.000	0	0.000	0	0.000
NG Recap Support	0	28.500	0	30.610	0	20.190	0	0.000	0	0.000	0	0.000
CBM Services	0	41.600	0	3.800	0	4.200	0	0.000	0	0.000	0	0.000
Composite Main Rotor Blade ship sets	0	0.000	0	0.000	10	17.100	0	0.000	0	0.000	0	0.000
Other	0	563.268	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>684.068</i>		<i>36.610</i>		<i>54.290</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Apache Product Improvements</i>	<i>368</i>	<i>684.068</i>	<i>0</i>	<i>36.610</i>	<i>70</i>	<i>54.290</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Lightweight Missile Launcher (LWML) <sup>(6)</sup>												
A Kits												
Recurring												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000				
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
LWML Procurement	0	0.000	362	23.464	160	10.600	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		23.464		10.600		0.000		0.000		0.000
<i>Total, Lightweight Missile Launcher (LWML)</i>	0	0.000	362	23.464	160	10.600	0	0.000	0	0.000	0	0.000
Apache Upgrades and Remanufacture <sup>(7)</sup>												
A Kits												
Recurring												
Blk II Reman Aircraft	116	1,276.400	1	16.900	0	0.000	0	0.000	0	0.000	0	0.000
NG Aircraft Procurement	60	709.100	12	143.321	0	13.430	0	0.000	0	0.000	0	0.000
NG Aircraft Procurement (OCO)	0	0.000	23	284.530	0	0.000	0	0.000	0	0.000	0	0.000
System / Software Upgrade	0	0.000	0	0.000	0	23.323	0	0.000	0	0.000	0	0.000
Obsolescence	0	0.000	0	0.000	0	18.257	0	0.000	0	0.000	0	0.000
NG MEP	0	71.900	0	44.860	0	5.920	0	0.000	0	0.000	0	0.000
Other Support	0	147.300	0	23.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		2,204.700		512.611		60.930		0.000		0.000		0.000
<i>Total, Apache Upgrades and Remanufacture</i>	176	2,204.700	36	512.611	0	60.930	0	0.000	0	0.000	0	0.000
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	0.000
<i>Subtotal Recurring</i>		0.000		18.487		102.347		0.000		0.000		0.000
<i>Total, Modernized Day Side Assembly (M-DSA), Phase1</i>	0	0.000	11	18.487	147	102.347	0	0.000	0	0.000	0	0.000
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	0.000
Installation Kits (OCO)	0	0.000	9	44.880	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		91.500		59.000		28.620		0.000		0.000		0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Total, Fire Control Radar (FCR)</i>	24	91.500	12	59.000	0	28.620	0	0.000	0	0.000	0	0.000
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	0.000
A to Block III (NRE)	0	0.000	0	29.370	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		11.100		29.370		0.000		0.000		0.000		0.000
<i>Total, Apache Block III</i>	0	11.100	0	29.370	0	0.000	0	0.000	0	0.000	0	0.000
Apache Training Aids, Devices, Simulators & Simul <sup>(11)</sup>												
A Kits												
Recurring												
LCT (NG/USAACE/WAATS)	2	31.600	3	53.260	0	0.000	0	0.000	0	0.000	0	0.000
System TADSS	0	0.000	50	24.404	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		31.600		77.664		0.000		0.000		0.000		0.000
<i>Total, Apache Training Aids, Devices, Simulators &amp; Simul</i>	2	31.600	53	77.664	0	0.000	0	0.000	0	0.000	0	0.000
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	5.875
Health Monitoring System	0	0.000	0	0.000	0	0.000	0	3.500	0	0.000	0	3.500
Recap Support / Kits	0	0.000	0	0.000	0	0.000	0	7.964	0	0.000	0	7.964
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		17.339		0.000		17.339
B Kits												
NonRecurring												
Propulsion-Drive-Rotor Systems	0	0.000	0	0.000	0	0.000	18	11.981	0	0.000	18	11.981
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		11.981		0.000		11.981

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000				
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Total, Airframe</i>	0	0.000	0	0.000	0	0.000	18	29.320	0	0.000	18	29.320
Armament <sup>(13)</sup>												
A Kits												
Recurring												
PIU Obsolescence	0	0.000	0	0.000	0	0.000	0	6.000	0	0.000	0	6.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		6.000		0.000		6.000
B Kits												
NonRecurring												
Lightweight Missile Launcher	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Armament</i>	0	0.000	0	0.000	0	0.000	0	6.000	0	0.000	0	6.000
Mission Command <sup>(14)</sup>												
A Kits												
Recurring												
Processors	0	0.000	0	0.000	0	0.000	0	12.000	0	0.000	0	12.000
Displays	0	0.000	0	0.000	0	0.000	0	5.000	0	0.000	0	5.000
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		17.000		0.000		17.000
<i>Total, Mission Command</i>	0	0.000	0	0.000	0	0.000	0	17.000	0	0.000	0	17.000
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	0.000
MTADS/PNVS	0	0.000	0	0.000	0	0.000	0	11.468	0	0.000	0	11.468
RFI	0	0.000	0	0.000	0	0.000	0	4.370	0	0.000	0	4.370
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Subtotal Recurring</i>		0.000		0.000		0.000		15.838		0.000		15.838
B Kits												
NonRecurring												
MDSA Phase 1	0	0.000	0	0.000	0	0.000	138	81.523	0	0.000	138	81.523
EI2	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		81.523		0.000		81.523
<i>Total, Sensors</i>	0	0.000	0	0.000	0	0.000	138	97.361	0	0.000	138	97.361
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	8.438
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		8.438		0.000		8.438
<i>Total, Support Elements</i>	0	0.000	0	0.000	0	0.000	0	8.438	0	0.000	0	8.438
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	16.980
Maintainer Devices	0	0.000	0	0.000	0	0.000	0	3.706	0	0.000	0	3.706
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		20.686		0.000		20.686
<i>Total, Training Systems</i>	0	0.000	0	0.000	0	0.000	0	20.686	0	0.000	0	20.686
<b>Total, All Modifications</b>		4,953.668		1,045.740		331.230		178.805		0.000		178.805
<b>Procurement Cost (Procurement + Support)</b>		4,953.668		1,045.740		331.230		178.805		0.000		178.805
<b>Total Installation Cost</b>		23.500		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		4,977.168		1,045.740		331.230		178.805		0.000		178.805



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000				
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues					<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Apache Sensors Life Extension & Upgrade <sup>(1)</sup>													
A Kits													
Recurring													
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	714	124.597	
Equipment (GFE)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	44.900	
Visible Near Infrared (V/NIR)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	28.600	
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.300	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		204.397	
<i>Total, Apache Sensors Life Extension &amp; Upgrade</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	714	204.397	
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	751.590	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		751.590	
<i>Total, AH-64A MISC Mods \$5M or less (no P3a set)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	751.590	
Apache Transformation (no P3a set) <sup>(2)</sup>													
A Kits													
Recurring													
Sets, Kits & Outfits (SKO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.990	
Equipment, NGF	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	29.100	
ASL/PLL	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.000	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		55.090	
<i>Total, Apache Transformation (no P3a set)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	55.090	
Modernized TADS/PNVs (M-TADS) <sup>(3)</sup>													
A Kits													
Recurring													

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS				<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> AH-64 Modifications - 0000				
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	542	861.630
Equipment (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	49.070
TEDAC/IHDSS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	67.200
Other Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	42.200
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>1,020.100</i>
<i>Total, Modernized TADS/PNVS (M-TADS)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>565</i>	<i>1,020.100</i>
Video from UAS Interoperability Teaming (VUIT-2) <sup>(4)</sup>												
A Kits												
Recurring												
VUIT-2 -- FY10 OCO	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	48	91.900
VUIT-2 -- FY11 OCO	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	144	170.600
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>262.500</i>
<i>Total, Video from UAS Interoperability Teaming (VUIT-2)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>192</i>	<i>262.500</i>
Apache Product Improvements <sup>(5)</sup>												
A Kits												
Recurring												
CBM Hardware/VMEP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	428	17.600
Other Recap	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	48.100
NG Recap Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	79.300
CBM Services	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	49.600
Composite Main Rotor Blade ship sets	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	17.100
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	563.268
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>774.968</i>
<i>Total, Apache Product Improvements</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>438</i>	<i>774.968</i>
Lightweight Missile Launcher (LWML) <sup>(6)</sup>												
A Kits												
Recurring												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000				
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
LWML Procurement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	34.064
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		34.064
<i>Total, Lightweight Missile Launcher (LWML)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	34.064
Apache Upgrades and Remanufacture <sup>(7)</sup>												
A Kits												
Recurring												
Blk II Reman Aircraft	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	117	1,293.300
NG Aircraft Procurement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	72	865.851
NG Aircraft Procurement (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	284.530
System / Software Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.323
Obsolescence	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	18.257
NG MEP	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	122.680
Other Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	170.300
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		2,778.241
<i>Total, Apache Upgrades and Remanufacture</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	212	2,778.241
Modernized Day Side Assembly (M-DSA), Phase1 <sup>(8)</sup>												
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	158	120.834
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		120.834
<i>Total, Modernized Day Side Assembly (M-DSA), Phase1</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	158	120.834
Fire Control Radar (FCR) <sup>(9)</sup>												
A Kits												
Recurring												
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	27	134.240
Installation Kits (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	9	44.880
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		179.120

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Total, Fire Control Radar (FCR)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	36	179.120
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	11.100
A to Block III (NRE)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	29.370
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		40.470
<i>Total, Apache Block III</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	40.470
Apache Training Aids, Devices, Simulators & Simul <sup>(11)</sup>												
A Kits												
Recurring												
LCT (NG/USAACE/WAATS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	84.860
System TADSS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	50	24.404
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		109.264
<i>Total, Apache Training Aids, Devices, Simulators &amp; Simul</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	55	109.264
Airframe <sup>(12)</sup>												
A Kits												
Recurring												
Structural Subsystems	0	12.274	0	10.211	0	7.872	0	9.207	0	0.000	0	45.439
Health Monitoring System	0	11.200	0	7.141	0	5.670	0	6.125	0	0.000	0	33.636
Recap Support / Kits	0	4.309	0	4.381	0	4.456	0	4.532	0	0.000	0	25.642
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	72.648	0	72.648
<i>Subtotal Recurring</i>		27.783		21.733		17.998		19.864		72.648		177.365
B Kits												
NonRecurring												
Propulsion-Drive-Rotor Systems	25	20.774	0	0.000	0	0.000	0	0.000	0	0.000	43	32.755
<i>Subtotal NonRecurring</i>		20.774		0.000		0.000		0.000		0.000		32.755

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Total, Airframe</i>	25	48.557	0	21.733	0	17.998	0	19.864	0	72.648	43	210.120
Armament <sup>(13)</sup>												
A Kits												
Recurring												
PIU Obsolescence	0	6.500	0	0.000	0	0.000	0	0.000	0	0.000	0	12.500
<i>Subtotal Recurring</i>		6.500		0.000		0.000		0.000		0.000		12.500
B Kits												
NonRecurring												
Lightweight Missile Launcher	298	29.826	57	5.717	146	14.692	154	15.427	0	0.000	655	65.662
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	79.133	0	79.133
<i>Subtotal NonRecurring</i>		29.826		5.717		14.692		15.427		79.133		144.795
<i>Total, Armament</i>	298	36.326	57	5.717	146	14.692	154	15.427	0	79.133	655	157.295
Mission Command <sup>(14)</sup>												
A Kits												
Recurring												
Processors	0	11.324	0	24.266	0	33.209	0	13.149	0	0.000	0	93.948
Displays	0	7.700	0	5.617	0	7.650	0	7.650	0	0.000	0	33.617
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	289.996	0	289.996
<i>Subtotal Recurring</i>		19.024		29.883		40.859		20.799		289.996		417.561
<i>Total, Mission Command</i>	0	19.024	0	29.883	0	40.859	0	20.799	0	289.996	0	417.561
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	28.822
MTADS/PNVS	0	12.880	0	13.158	0	17.806	0	15.357	0	0.000	0	70.669
RFI	0	3.699	0	0.000	0	0.000	0	0.000	0	0.000	0	8.069
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	95.906	0	95.906

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000			
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Subtotal Recurring</i>		25.579		22.158		28.628		15.357		95.906		203.466
B Kits												
NonRecurring												
MDSA Phase 1	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	138	81.523
EI2	264	21.370	0	0.000	0	0.000	0	0.000	0	0.000	264	21.370
<i>Subtotal NonRecurring</i>		21.370		0.000		0.000		0.000		0.000		102.893
<i>Total, Sensors</i>	264	46.949	0	22.158	0	28.628	0	15.357	0	95.906	402	306.359
Support Elements <sup>(16)</sup>												
A Kits												
Recurring												
Post Production Organic Support	0	0.000	0	0.000	0	2.764	0	0.000	0	0.000	0	11.202
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	24.003	0	24.003
<i>Subtotal Recurring</i>		0.000		0.000		2.764		0.000		24.003		35.205
<i>Total, Support Elements</i>	0	0.000	0	0.000	0	2.764	0	0.000	0	24.003	0	35.205
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	36.587
Maintainer Devices	0	4.500	0	4.700	0	4.200	0	2.675	0	0.000	0	19.781
TC	0	0.000	0	0.000	0	0.000	0	0.000	0	18.890	0	18.890
<i>Subtotal Recurring</i>		16.500		7.200		8.507		3.475		18.890		75.258
<i>Total, Training Systems</i>	0	16.500	0	7.200	0	8.507	0	3.475	0	18.890	0	75.258
<b>Total, All Modifications</b>		167.356		86.691		113.448		74.922		580.576		7,532.436
<i>Procurement Cost (Procurement + Support)</i>		167.356		86.691		113.448		74.922		580.576		7,532.436
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		23.500
<b>Total Cost (Procurement + Support + Installation)</b>		167.356		86.691		113.448		74.922		580.576		7,555.936
<b>Remarks:</b>												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000
<b>Models of Systems Affected:</b> Longbow Apache	<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues	<b>Related RDT&amp;E PEs:</b>
<p>(1)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.</p> <p>(2)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.</p> <p>(3)The Modernized Target Acquisition &amp; 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 (IHDS) 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&amp;S costs.</p> <p>(4)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.</p> <p>(5)Apache Mods and Recap provides near term improvements to the Apache fleet and focuses on reliability &amp; safety (R&amp;S) upgrades and operational deficiencies. The R&amp;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.</p> <p>(6)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.</p> <p>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).</p> <p>(7)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</p> <p>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.</p> <p>(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&amp;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.</p>		

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

<sup>(9)</sup>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 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 (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 warning and azimuth direction finding/cueing.

<sup>(10)</sup>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.

<sup>(11)</sup>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).

<sup>(12)</sup>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.

<sup>(13)</sup>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.

<sup>(14)</sup>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.

<sup>(15)</sup>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.

<sup>(16)</sup>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).

<sup>(17)</sup>FY13 Base procurement dollars in the amount of \$20.686 Million provides concurrency and obsolescence updates for the Apache operator and maintainer training systems.

<b>Manufacturer Information: Apache Sensors Life Extension &amp; Upgrade</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Nov 2011						
Delivery Dates	Dec 2011						
<b>Manufacturer Information: AH-64A MISC Mods \$5M or less (no P3a set)</b>							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000	
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: AH-64A MISC Mods \$5M or less (no P3a set)</b>							
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Feb 2012						
Delivery Dates	Feb 2012						
<b>Manufacturer Information: Apache Transformation (no P3a set)</b>							
Manufacturer Name: NA				Manufacturer Location: NA			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Feb 2012						
Delivery Dates	Feb 2012						
<b>Manufacturer Information: Modernized TADS/PNVS (M-TADS)</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Orlando, FL			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 24			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Dec 2011					
Delivery Dates		Dec 2013					
<b>Manufacturer Information: Video from UAS Interoperability Teaming (VUIT-2)</b>							
Manufacturer Name: Science and Engineering Services, Inc				Manufacturer Location: Huntsville, AL			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Apr 2010						
Delivery Dates							
<b>Manufacturer Information: Apache Product Improvements</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Feb 2012				
Delivery Dates			Mar 2012				
<b>Manufacturer Information: Lightweight Missile Launcher (LWML)</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Orlando, FL			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000	
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Lightweight Missile Launcher (LWML)</b>							
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Sep 2007						
Delivery Dates							
<b>Manufacturer Information: Apache Upgrades and Remanufacture</b>							
Manufacturer Name: Boeing				Manufacturer Location: Mesa, AZ			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Mar 2006						
Delivery Dates							
<b>Manufacturer Information: Modernized Day Side Assembly (M-DSA), Phase1</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Orlando, FL			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 30			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Sep 2011						
Delivery Dates	Mar 2013						
<b>Manufacturer Information: Fire Control Radar (FCR)</b>							
Manufacturer Name: Longbow Limited				Manufacturer Location: Owego, NY			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 24			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Jan 2012						
Delivery Dates	Jan 2014						
<b>Manufacturer Information: Apache Block III</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Feb 2012				
Delivery Dates			Feb 2012				

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000	
<b>Models of Systems Affected:</b> Longbow Apache			<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Apache Training Aids, Devices, Simulators &amp; Simul</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Feb 2012				
Delivery Dates			Feb 2012				
<b>Manufacturer Information: Airframe</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Armament</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Mission Command</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Sensors</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Orlando, FL			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
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<b>Models of Systems Affected:</b> Longbow Apache		<b>Modification Nomenclature (Modification Title, Modification Number):</b> AH-64 Modifications - 0000
<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues		<b>Related RDT&amp;E PEs:</b>

<b>Manufacturer Information: Support Elements</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

<b>Manufacturer Information: Training Systems</b>							
Manufacturer Name: .				Manufacturer Location: .			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

<b>Installation:</b> Apache Sensors Life Extension & Upgrade			<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
All Prior Years	621	0.000	12	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	24	0.000	12	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	45	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
<b>Total</b>	621	0.000	36	0.000	57	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Sensors Life Extension & Upgrade		<b>Method of Implementation:</b> Modification						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	633	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	45	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	
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	714	0.000	

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	642	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	621	12	12	12	12	12	12	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Installation:</b> AH-64A MISC Mods \$5M or less (no P3a set)		<b>Method of Implementation:</b> NA						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
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	

**UNCLASSIFIED**

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

<b>Installation:</b> AH-64A MISC Mods \$5M or less (no P3a set)		<b>Method of Implementation:</b> NA				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
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

<b>Installation:</b> Apache Transformation (no P3a set)		<b>Method of Implementation:</b> NA				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Transformation (no P3a set)		<b>Method of Implementation:</b> NA				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Transformation (no P3a set)	<b>Method of Implementation:</b> NA	<b>Installation Name:</b>
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**Installation Schedule**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0

<b>Installation:</b> Modernized TADS/PNVS (M-TADS)	<b>Method of Implementation:</b> Modification	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	446	0.000	53	0.000	31	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	12	0.000	15	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
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	446	0.000	53	0.000	43	0.000	15	0.000	0	0.000	15	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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



**UNCLASSIFIED**

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

<b>Installation:</b> Modernized TADS/PNVS (M-TADS)		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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
<b>Total</b>	<b>8</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>565</b>	<b>0.000</b>

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	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	0
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	0

<b>Installation:</b> Video from UAS Interoperability Teaming (VUIT-2)		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>24</b>	<b>0.000</b>	<b>60</b>	<b>0.000</b>	<b>108</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>108</b>	<b>0.000</b>

**UNCLASSIFIED**

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

<b>Installation:</b> Video from UAS Interoperability Teaming (VUIT-2)		<b>Method of Implementation:</b> .						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	48	0.000	
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	144	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	
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	192	0.000	

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
In	24	24	0	0	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	24	24	0	0	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Installation:</b> Apache Product Improvements		<b>Method of Implementation:</b> .						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
All Prior Years	772	19.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2011	100	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
FY 2012	100	2.500	0	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	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	

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Product Improvements		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	972	23.500	0	0.000	0	0.000	60	0.000	0	0.000	60	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	772	19.200
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	100	1.800
FY 2012	10	0.000	0	0.000	0	0.000	0	0.000	0	0.000	170	2.500
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
<b>Total</b>	10	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,042	23.500

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	972	0	0	0	0	0	0	0	0	15	15	15	15	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	972	0	0	0	0	0	0	0	0	15	15	15	15	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Installation:</b> Lightweight Missile Launcher (LWML)		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Lightweight Missile Launcher (LWML)		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	362	0.000	160	0.000	0	0.000	160	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	522	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Lightweight Missile Launcher (LWML)	<b>Method of Implementation:</b> Modification	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																											
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot												
		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	-	90	90	91	91	40	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	522
Out	-	0	0	0	0	90	90	91	91	40	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	522

<b>Installation:</b> Apache Upgrades and Remanufacture	<b>Method of Implementation:</b> Remanufacture	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	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
<b>Total</b>	129	0.000	47	0.000	13	0.000	23	0.000	0	0.000	23	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	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

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Upgrades and Remanufacture		<b>Method of Implementation:</b> Remanufacture				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	212	0.000

<b>Installation Schedule</b>																																	
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>		
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	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	0	0	212

<b>Installation:</b> Modernized Day Side Assembly (M-DSA), Phase1		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	17	0.000	0	0.000	17	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Modernized Day Side Assembly (M-DSA), Phase1		<b>Method of Implementation:</b> Modification						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>		
	Qty (Each)	Total Cost (\$ M)	Qty (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	11	0.000	
FY 2012	141	0.000	0	0.000	0	0.000	0	0.000	0	0.000	147	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	
<b>Total</b>	141	0.000	0	0.000	0	0.000	0	0.000	0	0.000	158	0.000	

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	-	0	0	0	0	0	0	0	0	0	1	6	10	26	45	52	18	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Out	-	0	0	0	0	0	0	0	0	0	0	0	17	26	45	52	18	0	0	0	0	0	0	0	0	0	0	0	0	0	158

<b>Installation:</b> Fire Control Radar (FCR)		<b>Method of Implementation:</b> Modification						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>		
	Qty (Each)	Total Cost (\$ M)	Qty (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	24	0.000	0	0.000	0	0.000	0	0.000	
FY 2011	0	0.000	0	0.000	0	0.000	3	0.000	0	0.000	3	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	

**UNCLASSIFIED**

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

<b>Installation:</b> Fire Control Radar (FCR)		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	24	0.000	3	0.000	0	0.000	3	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	24	0.000
FY 2011	9	0.000	0	0.000	0	0.000	0	0.000	0	0.000	12	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
<b>Total</b>	9	0.000	0	0.000	0	0.000	0	0.000	0	0.000	36	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	-	0	0	0	0	7	8	6	3	0	0	2	1	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	-	0	0	0	0	7	8	6	3	0	0	2	1	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Installation:</b> Apache Block III		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000



**UNCLASSIFIED**

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

<b>Installation:</b> Apache Block III		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Block III	<b>Method of Implementation:</b> .	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0

<b>Installation:</b> Apache Training Aids, Devices, Simulators & Simul	<b>Method of Implementation:</b> .	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	1	0.000	24	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
<b>Total</b>	0	0.000	1	0.000	24	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	25	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

**UNCLASSIFIED**

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

<b>Installation:</b> Apache Training Aids, Devices, Simulators & Simul		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	25	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
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

<b>Installation:</b> Airframe		<b>Method of Implementation:</b> Modifications								<b>Installation Name:</b>									
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>								
	Qty (Each)	Total Cost (\$ M)	Qty (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							

**UNCLASSIFIED**

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

<b>Installation:</b> Airframe		<b>Method of Implementation:</b> Modifications						<b>Installation Name:</b>					
Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
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	18	0.000	0	0.000	0	0.000	0	0.000	18	0.000	
FY 2014	0	0.000	0	0.000	25	0.000	0	0.000	0	0.000	25	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	
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>18</b>	<b>0.000</b>	<b>25</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>43</b>	<b>0.000</b>	

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Armament		<b>Method of Implementation:</b> Modification						<b>Installation Name:</b>					
Installation Cost	Prior Years		FY 2011		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 (\$ 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	

**UNCLASSIFIED**

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

<b>Installation:</b> Armament		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	0.000
FY 2015	0	0.000	0	0.000	57	0.000	0	0.000	0	0.000	57	0.000
FY 2016	0	0.000	0	0.000	0	0.000	146	0.000	0	0.000	146	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	154	0.000	154	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	298	0.000	57	0.000	146	0.000	154	0.000	655	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
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

<b>Installation:</b> Mission Command		<b>Method of Implementation:</b> .				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

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

<b>Installation:</b> Mission Command	<b>Method of Implementation:</b> .	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

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

<b>Installation:</b> Mission Command	<b>Method of Implementation:</b> .	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Sensors	<b>Method of Implementation:</b> Modifications	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	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

**UNCLASSIFIED**

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

<b>Installation:</b> Sensors		<b>Method of Implementation:</b> Modifications				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	40	0.000	296	0.000	66	0.000	0	0.000	0	0.000	402	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
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

<b>Installation:</b> Support Elements		<b>Method of Implementation:</b> .				<b>Installation Name:</b>											
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>						
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>					
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					
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000					



**UNCLASSIFIED**

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

<b>Installation:</b> Support Elements		<b>Method of Implementation:</b> .						<b>Installation Name:</b>					
Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Training Systems		<b>Method of Implementation:</b> Modification						<b>Installation Name:</b>					
Installation Cost	Prior Years		FY 2011		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 (\$ 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA6605 - AH-64 MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): AH-64 Modifications - 0000
<b>Models of Systems Affected:</b> Longbow Apache	<b>Type Modification:</b> Operational & Reliability Improvements and Resolve Obsolescence Issues	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Training Systems		<b>Method of Implementation:</b> Modification				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	-	0	0	0	0	0	0	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

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0203744A
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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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
CH-47 Cargo Helicopter Mods - 0000	P3A		-	-	5,525.177	-	-	139.902	-	-	57.012	-	-	39.135	-	-	-	-	-	39.135
<b>Total Gross/Weapon System Cost</b>					<b>5,525.177</b>			<b>139.902</b>			<b>57.012</b>			<b>39.135</b>						<b>39.135</b>
		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
CH-47 Cargo Helicopter Mods - 0000	P3A		-	-	172.744	-	-	62.016	-	-	85.602	-	-	486.931	-	-	-	-	-	-

## UNCLASSIFIED

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army	<b>Date:</b> February 2012
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0203744A
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Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Total Gross/Weapon System Cost</b>					<b>172.744</b>			<b>62.016</b>			<b>85.602</b>			<b>486.931</b>			-			-

\*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:**

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000		
<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000			
<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
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	0.000	
A-Kits	337	3.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Logistics	0	3.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
PM Support	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		<i>42.100</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>	
<i>Total, Engine Filtration System</i>	<i>440</i>	<i>42.100</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	
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	0.000	
T55 Engine Control Unit Prog (ECU)	427	29.500	240	15.500	0	0.200	0	0.000	0	0.000	0	0.000	
P3 Check Valve	373	4.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Digital ECU Remote Readout	0	0.000	23	0.700	0	0.000	0	0.000	0	0.000	0	0.000	
Next Generation Torque System	260	9.100	144	5.400	132	4.826	0	0.000	0	0.000	0	0.000	
Logistics	0	39.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
ECU Test Stand	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
ECU Test Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
1553 Software Upgrade	0	0.000	0	0.000	0	0.700	0	0.000	0	0.000	0	0.000	
RIMFIRE	0	0.000	0	0.000	0	0.000	0	0.400	0	0.000	0	0.400	
Digital Maint Panel Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
PM Admin Support	0	2.800	0	1.400	0	0.800	0	0.021	0	0.000	0	0.021	
<i>Subtotal Recurring</i>		<i>2,581.200</i>		<i>23.000</i>		<i>6.526</i>		<i>0.421</i>		<i>0.000</i>		<i>0.421</i>	
NonRecurring													
Next Generation Torque System Test Set	0	0.000	0	0.000	0	2.000	0	0.000	0	0.000	0	0.000	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000			
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Subtotal NonRecurring</i>		0.000		0.000		2.000		0.000		0.000		0.000
<i>Total, Engine Improvement</i>	2,310	2,581.200	407	23.000	132	8.526	0	0.421	0	0.000	0	0.421
Maintenance Training Devices (MTD) <sup>(3)</sup>												
A Kits												
Recurring												
MTD Upgrades	11	20.800	3	5.400	4	4.700	0	0.000	0	0.000	0	0.000
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	0.000
<i>Subtotal Recurring</i>		31.200		7.000		6.400		0.000		0.000		0.000
<i>Total, Maintenance Training Devices (MTD)</i>	11	31.200	3	7.000	4	6.400	0	0.000	0	0.000	0	0.000
Transformation Sets, Kits and Outfits <sup>(4)</sup>												
A Kits												
Recurring												
SKOs	25	64.600	4	12.300	3	9.000	0	1.000	0	0.000	0	1.000
<i>Subtotal Recurring</i>		64.600		12.300		9.000		1.000		0.000		1.000
<i>Total, Transformation Sets, Kits and Outfits</i>	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	0.000
PM Support	0	0.200	0	0.000	0	0.595	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		14.300		0.000		12.490		0.000		0.000		0.000
<i>Total, M24A1 Window/Door Gun Mount</i>	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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000			
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M )
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		3.300		1.600		0.000		0.000		0.000		0.000
NonRecurring												
Tools and Facilitation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Adjustable Pitch Change Link</i>	44	3.300	21	1.600	0	0.000	0	0.000	0	0.000	0	0.000
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	0.000
PM Support	0	0.000	0	0.000	0	0.214	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		2.495		0.000		0.000		0.000
<i>Total, Crashworthy Pilot Seats</i>	0	0.000	0	0.000	0	2.495	0	0.000	0	0.000	0	0.000
AVCATT <sup>(8)</sup>												
A Kits												
Recurring												
AVCATT Upgrades	17	7.100	0	10.585	0	0.000	0	0.000	0	0.000	0	0.000
Engineering Support	0	2.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Logistics	0	0.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		9.900		10.585		0.000		0.000		0.000		0.000
<i>Total, AVCATT</i>	17	9.900	0	10.585	0	0.000	0	0.000	0	0.000	0	0.000
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	0.000
VSWR	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircraft Continuity Test Set (ACTS)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Thermal Image Gun	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000



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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000			
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M )
Misc Mods for Millville	0	0.000	0	0.000	0	1.750	0	0.000	0	0.000	0	0.000
Combining Transmission Fan Drive Shaft	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Swashplate Assembly	0	0.000	0	0.000	0	3.509	0	0.000	0	0.000	0	0.000
EPUSHA	0	7.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Crashworthy Seats	0	12.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Adjustable Pitch Change Link	174	5.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aft Pylon Workplatform	0	13.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Swashplate Bearing	0	1.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Hook Load Measuring System	0	1.000	0	0.000	0	0.700	0	0.000	0	0.000	0	0.000
Parts Interchangeability/Obsolescence	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Halon Replacement	250	7.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Night Vision Goggle Internal Lighting	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
EAPS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Weapon Sys Spec Data Collection	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Frangible Fuel Fitting	0	0.000	0	0.000	0	4.000	0	0.000	0	0.000	0	0.000
PM Support	0	0.600	0	0.300	0	0.726	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		49.900		0.300		15.185		0.000		0.000		0.000
<i>Total, CH-47 MISC Mods \$5M or Less</i>	424	49.900	0	0.300	0	15.185	0	0.000	0	0.000	0	0.000
Cargo On/Off Loading System (COOLS) and COOLS BPS <sup>(10)</sup>												
A Kits												
Recurring												
Ballistic Protection System (BPS)	74	10.700	0	0.000	0	0.000	52	12.117	0	0.000	52	12.117
PM Support	0	0.400	0	0.207	0	0.000	0	1.253	0	0.000	0	1.253
Cargo Handling Floor System (BASE)	0	29.700	0	3.400	0	0.000	52	11.016	0	0.000	52	11.016
Cargo Handling Floor System (OCO)	0	0.000	0	29.300	0	0.000	0	0.000	0	0.000	0	0.000
PM Support (OCO)	0	0.000	0	8.010	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		40.800		40.917		0.000		24.386		0.000		24.386
<i>Total, Cargo On/Off Loading System (COOLS) and COOLS BPS</i>	74	40.800	0	40.917	0	0.000	104	24.386	0	0.000	104	24.386

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000				
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
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	1.300	
<i>Subtotal Recurring</i>		21.000		0.000		0.000		1.300		0.000		1.300	
<i>Total, Aircraft Component Parts-Marking</i>	0	21.000	0	0.000	0	0.000	0	1.300	0	0.000	0	1.300	
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	0.000	
Interim Contractor Support	0	0.000	0	23.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		6.100		30.800		0.000		0.000		0.000		0.000	
<i>Total, New Equipment Training (NET)</i>	0	6.100	0	30.800	0	0.000	0	0.000	0	0.000	0	0.000	
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	0.000	
PM Admin Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000	
<i>Total, Improved Rotor Blades</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
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	0.000	
<i>Subtotal Recurring</i>		0.000		8.900		0.000		0.000		0.000		0.000	
<i>Total, Special Operations Aircraft Commonality</i>	0	0.000	1	8.900	0	0.000	0	0.000	0	0.000	0	0.000	
Transmission and Torque Management <sup>(15)</sup>													
A Kits													

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<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ M)
Recurring												
Advanced Rotor Torque Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Advanced Chinook Transmissions	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Transmission and Torque Management</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Airframe Optimization and Payload Improvements <sup>(16)</sup>												
A Kits												
Recurring												
Electrical System Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Fuel Tank Consumption	0	0.000	0	0.000	0	0.000	0	0.000	0	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	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Airframe Optimization and Payload Improvements</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Improved Vibration Control System <sup>(17)</sup>												
A Kits												
Recurring												
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Improved Vibration Control System</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Cargo Platform Health Environment <sup>(18)</sup>												
A Kits												
Recurring												
Integration	0	0.000	0	0.000	0	0.000	0	10.100	0	0.000	0	10.100

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<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
<b>Financial Plan</b>		<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
		<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
<i>Subtotal Recurring</i>			0.000		0.000		0.000		10.100		0.000		10.100
<i>Total, Cargo Platform Health Environment</i>		0	0.000	0	0.000	0	0.000	0	10.100	0	0.000	0	10.100
Degraded Visual Environment (MOD 21) <sup>(19)</sup>													
A Kits													
Recurring													
Kits		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
PM Support		0	2,653.877	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>			2,653.877		0.000		0.000		0.000		0.000		0.000
<i>Total, Degraded Visual Environment (MOD 21)</i>		0	2,653.877	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Total, All Modifications</i>			5,518.277		135.402		54.096		37.207		0.000		37.207
<i>Procurement Cost (Procurement + Support)</i>			5,518.277		135.402		54.096		37.207		0.000		37.207
<i>Total Installation Cost</i>			6.900		4.500		2.916		1.928		0.000		1.928
<b>Total Cost (Procurement + Support + Installation)</b>			5,525.177		139.902		57.012		39.135		0.000		39.135
<b>Financial Plan</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
		<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
<b>Procurement</b>													
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
<i>Subtotal Recurring</i>			0.000		0.000		0.000		0.000		0.000		42.100
<i>Total, Engine Filtration System</i>		0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	440	42.100
Engine Improvement <sup>(2)</sup>													
A Kits													

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<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified					<b>Related RDT&amp;E PEs:</b>				
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
Recurring													
New Engines	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,250	2,495.000	
T55 Engine Control Unit Prog (ECU)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	667	45.200	
P3 Check Valve	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	373	4.900	
Digital ECU Remote Readout	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	0.700	
Next Generation Torque System	149	5.734	107	4.214	74	2.894	200	4.215	569	23.267	1,635	59.650	
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	39.900	
ECU Test Stand	0	0.431	0	0.000	0	0.446	0	0.000	0	0.461	0	1.338	
ECU Test Kit	0	0.200	0	0.000	0	0.220	0	0.000	0	0.000	0	0.420	
1553 Software Upgrade	0	0.706	0	0.000	0	0.780	0	0.000	0	0.000	0	2.186	
RIMFIRE	0	0.592	0	0.603	0	0.613	0	0.623	0	5.634	0	8.465	
Digital Maint Panel Upgrade	75	6.665	32	2.892	10	0.919	80	7.478	496	47.881	693	65.835	
PM Admin Support	0	0.706	0	0.401	0	0.283	0	0.803	0	3.862	0	11.076	
<i>Subtotal Recurring</i>		<i>15.034</i>		<i>8.110</i>		<i>6.155</i>		<i>13.119</i>		<i>81.105</i>		<i>2,734.670</i>	
NonRecurring													
Next Generation Torque System Test Set	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.000	
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>2.000</i>	
<i>Total, Engine Improvement</i>	<i>224</i>	<i>15.034</i>	<i>139</i>	<i>8.110</i>	<i>84</i>	<i>6.155</i>	<i>280</i>	<i>13.119</i>	<i>1,065</i>	<i>81.105</i>	<i>4,641</i>	<i>2,736.670</i>	
Maintenance Training Devices (MTD) <sup>(3)</sup>													
A Kits													
Recurring													
MTD Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	18	30.900	
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.200	
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.500	
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>44.600</i>	
<i>Total, Maintenance Training Devices (MTD)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>18</i>	<i>44.600</i>	
Transformation Sets, Kits and Outfits <sup>(4)</sup>													
A Kits													

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<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Recurring												
SKOs	0	2.796	0	0.000	0	0.000	0	0.000	0	0.000	32	89.696
<i>Subtotal Recurring</i>		2.796		0.000		0.000		0.000		0.000		89.696
<i>Total, Transformation Sets, Kits and Outfits</i>	0	2.796	0	0.000	0	0.000	0	0.000	0	0.000	32	89.696
M24A1 Window/Door Gun Mount <sup>(5)</sup>												
A Kits												
Recurring												
Door Gunner Mount B Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	540	14.100
M240 Window/Door Gun Mount Mod 1	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	650	11.895
PM Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.795
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		26.790
<i>Total, M24A1 Window/Door Gun Mount</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,190	26.790
Adjustable Pitch Change Link <sup>(6)</sup>												
A Kits												
Recurring												
Boot & Link Assemblies	60	4.654	30	2.366	100	8.022	113	9.218	131	10.887	499	40.047
PM Support	0	0.484	0	0.118	0	0.401	0	0.461	0	0.544	0	2.008
<i>Subtotal Recurring</i>		5.138		2.484		8.423		9.679		11.431		42.055
NonRecurring												
Tools and Facilitation	0	5.028	0	0.000	0	0.000	0	0.000	0	0.000	0	5.028
<i>Subtotal NonRecurring</i>		5.028		0.000		0.000		0.000		0.000		5.028
<i>Total, Adjustable Pitch Change Link</i>	60	10.166	30	2.484	100	8.423	113	9.679	131	11.431	499	47.083
Crashworthy Pilot Seats <sup>(7)</sup>												
A Kits												
Recurring												
Crashworthy Seats Pilot CoPilot	100	5.171	120	4.382	100	4.456	100	10.877	790	36.844	1,210	64.011
PM Support	0	0.259	0	0.338	0	0.239	0	0.560	0	2.015	0	3.625
<i>Subtotal Recurring</i>		5.430		4.720		4.695		11.437		38.859		67.636

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000			
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Total, Crashworthy Pilot Seats</i>	100	5.430	120	4.720	100	4.695	100	11.437	790	38.859	1,210	67.636
AVCATT <sup>(8)</sup>												
A Kits												
Recurring												
AVCATT Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	17.685
Engineering Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.600
Logistics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.200
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		20.485
<i>Total, AVCATT</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	17	20.485
CH-47 MISC Mods \$5M or Less <sup>(9)</sup>												
A Kits												
Recurring												
Algorithm Development	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.500
VSWR	0	4.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.000
Aircraft Continuity Test Set (ACTS)	0	4.200	0	0.000	0	0.000	0	0.000	0	0.000	0	4.200
Thermal Image Gun	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.000
Misc Mods for Millville	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.750
Combining Transmission Fan Drive Shaft	0	1.400	0	0.000	0	0.000	0	0.000	0	0.000	0	1.400
Swashplate Assembly	0	3.300	0	0.000	0	0.000	0	0.000	0	0.000	0	6.809
EPUSHA	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.600
Crashworthy Seats	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.300
Adjustable Pitch Change Link	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	174	5.100
Aft Pylon Workplatform	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.100
Swashplate Bearing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.500
Hook Load Measuring System	0	0.000	0	0.000	0	0.000	0	4.000	0	38.200	0	43.900
Parts Interchangeability/Obsolescence	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.200
Halon Replacement	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	250	7.500
Night Vision Goggle Internal Lighting	0	0.000	0	0.000	0	0.000	0	2.600	0	21.000	0	23.600

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<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
EAPS	0	1.400	0	1.300	0	0.800	0	0.500	0	6.600	0	10.600
Weapon Sys Spec Data Collection	0	0.000	0	0.000	0	0.000	0	0.500	0	2.500	0	3.000
Frangible Fuel Fitting	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.000
PM Support	0	0.814	0	0.065	0	0.040	0	0.380	0	3.415	0	6.340
<i>Subtotal Recurring</i>		17.114		1.365		0.840		7.980		71.715		164.399
<i>Total, CH-47 MISC Mods \$5M or Less</i>	0	17.114	0	1.365	0	0.840	0	7.980	0	71.715	424	164.399
Cargo On/Off Loading System (COOLS) and COOLS BPS <sup>(10)</sup>												
A Kits												
Recurring												
Ballistic Protection System (BPS)	47	11.138	0	0.000	0	0.000	0	0.000	0	0.000	173	33.955
PM Support	0	0.776	0	0.789	0	0.800	0	0.634	0	0.000	0	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	0.000	0	0.000	0	0.000	0	0.000	0	29.300
PM Support (OCO)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.010
<i>Subtotal Recurring</i>		27.426		16.565		16.843		13.324		0.000		180.261
<i>Total, Cargo On/Off Loading System (COOLS) and COOLS BPS</i>	119	27.426	72	16.565	56	16.843	0	13.324	0	0.000	425	180.261
Aircraft Component Parts-Marking <sup>(11)</sup>												
A Kits												
Recurring												
Component Markings	0	2.900	0	1.400	0	1.500	0	3.200	0	3.200	0	34.500
<i>Subtotal Recurring</i>		2.900		1.400		1.500		3.200		3.200		34.500
<i>Total, Aircraft Component Parts-Marking</i>	0	2.900	0	1.400	0	1.500	0	3.200	0	3.200	0	34.500
New Equipment Training (NET) <sup>(12)</sup>												
A Kits												
Recurring												
NET Operations	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.900
Interim Contractor Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		36.900



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<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Total, New Equipment Training (NET)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	36.900
Improved Rotor Blades <sup>(13)</sup>												
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	1,268.875
PM Admin Support	0	0.000	0	0.000	0	0.942	0	12.320	0	50.150	0	63.412
<i>Subtotal Recurring</i>		0.000		0.000		19.776		259.359		1,053.152		1,332.287
<i>Total, Improved Rotor Blades</i>	0	0.000	0	0.000	56	19.776	727	259.359	2,901	1,053.152	3,684	1,332.287
Special Operations Aircraft Commonality <sup>(14)</sup>												
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	8.900
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		8.900
<i>Total, Special Operations Aircraft Commonality</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	8.900
Transmission and Torque Management <sup>(15)</sup>												
A Kits												
Recurring												
Advanced Rotor Torque Management	0	0.000	0	0.000	0	0.000	0	40.500	0	19.100	0	59.600
Advanced Chinook Transmissions	0	0.000	0	0.000	0	0.000	0	16.405	0	9.200	0	25.605
PM Support	0	0.000	0	0.000	0	0.000	0	2.745	0	1.415	0	4.160
<i>Subtotal Recurring</i>		0.000		0.000		0.000		59.650		29.715		89.365
<i>Total, Transmission and Torque Management</i>	0	0.000	0	0.000	0	0.000	0	59.650	0	29.715	0	89.365
Airframe Optimization and Payload Improvements <sup>(16)</sup>												
A Kits												
Recurring												
Electrical System Upgrade	0	17.200	0	0.000	0	0.000	0	12.100	0	7.533	0	36.833
Fuel Tank Consumption	0	13.100	0	0.000	0	4.577	0	15.939	0	11.743	0	45.359
Composit Synch Shafts	0	10.800	0	0.000	0	0.000	0	11.500	0	8.500	0	30.800

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<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		57.435		0.000		4.808		57.875		36.305		156.423
<i>Total, Airframe Optimization and Payload Improvements</i>	0	57.435	0	0.000	0	4.808	0	57.875	0	36.305	0	156.423
Improved Vibration Control System <sup>(17)</sup>												
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
<i>Subtotal Recurring</i>		9.322		7.789		6.710		18.797		42.454		85.072
<i>Total, Improved Vibration Control System</i>	30	9.322	56	7.789	47	6.710	131	18.797	286	42.454	550	85.072
Cargo Platform Health Environment <sup>(18)</sup>												
A Kits												
Recurring												
Integration	0	21.200	0	12.500	0	7.670	0	5.000	0	0.000	0	56.470
<i>Subtotal Recurring</i>		21.200		12.500		7.670		5.000		0.000		56.470
<i>Total, Cargo Platform Health Environment</i>	0	21.200	0	12.500	0	7.670	0	5.000	0	0.000	0	56.470
Degraded Visual Environment (MOD 21) <sup>(19)</sup>												
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
<i>Subtotal Recurring</i>		0.000		0.000		0.000		19.558		60.768		2,734.203
<i>Total, Degraded Visual Environment (MOD 21)</i>	0	0.000	0	0.000	0	0.000	137	19.558	413	60.768	550	2,734.203
<b>Total, All Modifications</b>		168.823		54.933		77.420		478.978		1,428.704		7,953.840
<i>Procurement Cost (Procurement + Support)</i>		168.823		54.933		77.420		478.978		1,428.704		7,953.840
<i>Total Installation Cost</i>		3.921		7.083		8.182		7.953		45.577		88.960

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<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Total Cost (Procurement + Support + Installation)</b>		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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<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
<p>or aircrews. Commanders and staff personnel will plan, command and control, and aircrews will plan and execute. Training will be observed, recorded, evaluated, and repeated to reach the desired level of proficiency at the desired level of complexity. AVCATT will be a mobile, transportable, trailerized virtual simulation system providing aviation with the capability to conduct realistic, high intensity, task-loaded collective and combined arms training.</p> <p>(9) Mods include redesign of the Transmission Fan Drive Shaft to incorporate a design to eliminate part wear and difficult inspections; a new Swashplate Assembly to improve reliability of the Swashplate by eliminating the bearing cage lifting failure mode and reduce cracking; Hook Load Measurement System to provide the crew with weight information for external payloads; improved night vision goggle lighting for the cargo area; improved Engine Air Particle Separator to reduce mission weight; completes verification of the system specification requirements through testing, analysis, and airworthiness substantiation and qualification.</p> <p>(10) The Cargo On/Off Loading (COOL) System with Ballistic Protection (BPS) will replace the current system, Helicopter Internal Cargo Handling System, which is cumbersome and not flexible enough to meet mission diversity currently faced in Overseas Contingency Operations. The system would be integrated into the aircraft. This would allow for units to perform cargo missions and passenger missions without stopping to reconfigure the helicopter. The current system is a bolt on system that is maintenance intensive to install and remove. The cargo handling floor would allow a cargo handling system to be installed on the aircraft all the time allowing for in-flight mission changes as needed and reducing mission preparation time while eliminating man-hours needed to install.</p> <p>(11) The CH-47 Cargo program will adopt an automatic information system (AIS). This will include automatic identification technology (AIT) which will provide error free documentation of aircraft and components across the fleet. This project will locate mobile partsmarking facilities to allow the Cargo Helicopter PMO to effectively manage the CH-47 fleet.</p> <p>(12) The CH-47 Program Management Office was scheduled to complete New Equipment Training (NET) with the fourth Unit Equipped. Department of the Army tasked the CH-47 Program Management Office with New Equipment Training for fifth through thirteenth Unit Equipped. New Equipment Training is required to field active Army units preparing for deployment to theater, and supports operational readiness.</p> <p>(13) New Rotor Blades will provide significantly increased performance for the CH-47. The goal of the program is to reduce blade stall, improve erosion protection, and most importantly buyback at least 1000 pounds of lift thus enabling the CH-47 to carry more payload. Without these new Rotor Blades, the CH-47 will not be able to carry as much load thus requiring more missions to accomplish the same objective. This translates to increased risk to the soldier by requiring them to spend more time in the air. New Rotor Blades will increase readiness because the new blades will not require current blade inspections. Additionally, these new blades will eliminate two Safety of Flight restrictions currently imposed on the CH-47. Installation schedule TBD.</p> <p>(14) This funding will cover the hardware costs and installation costs for the common items between the CH-47F and the MH-47G Special Operations Aircraft. Installation schedule varies.</p> <p>(15) This program will provide an advanced Transmission Driveline and Torque Power Management System to enable a more robust and balanced drive train with improved power sharing between the Forward and Aft Rotor Head. Efficiencies can be gained by optimizing the split of the torque between rotor heads. Improvement will provide additional payload capability, improved Dynamic component lives, reduced flight control O&amp;S costs, and improved handling qualities. Installation Schedule TBD.</p> <p>(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&amp;S costs. Composite Synch Shafts will reduce weight and improve reliability through use of state of the art materials with lower O&amp;S costs. Hydraulic system upgrade that improves reliability, survivability, and safety provided by incorporating state of the art technology and design standards, including jam resistance. Fuel System improvement that increases reliability through reduced parts count and aircraft weight savings reducing Soldier burden. Contract award and installation schedule is various.</p> <p>(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&amp;S costs and Soldier burden.</p> <p>(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.</p> <p>(19) Degraded Visual Environment - System to improve the aircrews' ability to operate in sand, dust, and obscure 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.</p>		
<b>Manufacturer Information: Engine Filtration System</b>		
Manufacturer Name: TBD		Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 1		Production Leadtime ( <i>in Months</i> ): 1

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000	
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Engine Filtration System</b>							
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Jan 2012					
Delivery Dates		Feb 2012					
<b>Manufacturer Information: Engine Improvement</b>							
Manufacturer Name: Honeywell Inc				Manufacturer Location: Phoenix, AZ			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Maintenance Training Devices (MTD)</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 3				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Jan 2010	Jan 2011	Jan 2012				
Delivery Dates	Jan 2011	Jan 2012	Jan 2013				
<b>Manufacturer Information: Transformation Sets, Kits and Outfits</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: M24A1 Window/Door Gun Mount</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 5			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Dec 2011		Dec 2013			
Delivery Dates		May 2012		May 2014			
<b>Manufacturer Information: Adjustable Pitch Change Link</b>							
Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 4			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000	
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified			<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: Adjustable Pitch Change Link</b>								
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	
Contract Dates	Oct 2011	Jun 2012		Jun 2014		Jun 2016	Jun 2017	
Delivery Dates	Feb 2012	Oct 2012		Oct 2014		Oct 2016	Oct 2017	
<b>Manufacturer Information: Crashworthy Pilot Seats</b>								
Manufacturer Name: TBD				Manufacturer Location: TBD				
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 10				
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	
Contract Dates				Apr 2014	Apr 2015	Apr 2016	Apr 2017	
Delivery Dates				Feb 2015	Feb 2016	Feb 2017	Feb 2018	
<b>Manufacturer Information: AVCATT</b>								
Manufacturer Name: PEO STRICOM				Manufacturer Location: Orlando, FL				
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):				
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	
Contract Dates								
Delivery Dates								
<b>Manufacturer Information: CH-47 MISC Mods \$5M or Less</b>								
Manufacturer Name: TBD				Manufacturer Location: TBD				
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):				
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	
Contract Dates								
Delivery Dates								
<b>Manufacturer Information: Cargo On/Off Loading System (COOLS) and COOLS BPS</b>								
Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA				
Administrative Leadtime ( <i>in Months</i> ): 5				Production Leadtime ( <i>in Months</i> ): 8				
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	
Contract Dates			Oct 2012	Oct 2013	Oct 2014	Oct 2015	Oct 2016	
Delivery Dates			Jun 2013	Jun 2014	Jun 2015	Jun 2016	Jun 2017	
<b>Manufacturer Information: Aircraft Component Parts-Marking</b>								
Manufacturer Name: TBD				Manufacturer Location: TBD				
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):				

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000	
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Aircraft Component Parts-Marking</b>							
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: New Equipment Training (NET)</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Improved Rotor Blades</b>							
Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 6			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates						Jun 2016	Jun 2017
Delivery Dates						Dec 2016	Dec 2017
<b>Manufacturer Information: Special Operations Aircraft Commonality</b>							
Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Transmission and Torque Management</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Airframe Optimization and Payload Improvements</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000					
<b>Models of Systems Affected:</b> CH-47			<b>Type Modification:</b> Unclassified			<b>Related RDT&amp;E PEs:</b>						
<b>Manufacturer Information: Airframe Optimization and Payload Improvements</b>												
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates												
Delivery Dates												
<b>Manufacturer Information: Improved Vibration Control System</b>												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime ( <i>in Months</i> ):						Production Leadtime ( <i>in Months</i> ):						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates												
Delivery Dates												
<b>Manufacturer Information: Cargo Platform Health Environment</b>												
Manufacturer Name: Boeing						Manufacturer Location: Ridley Park, PA						
Administrative Leadtime ( <i>in Months</i> ):						Production Leadtime ( <i>in Months</i> ):						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates												
Delivery Dates												
<b>Manufacturer Information: Degraded Visual Environment (MOD 21)</b>												
Manufacturer Name: TBD						Manufacturer Location: TBD						
Administrative Leadtime ( <i>in Months</i> ):						Production Leadtime ( <i>in Months</i> ):						
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>					
Contract Dates												
Delivery Dates												
<b>Installation: Engine Filtration System</b>												
<b>Method of Implementation:</b> Various			<b>Installation Name:</b>									
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
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	0.000	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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000					
<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>					

<b>Installation:</b> Engine Filtration System				<b>Method of Implementation:</b> Various						<b>Installation Name:</b>					
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<b>Total</b>	<b>406</b>	<b>1.400</b>	<b>34</b>	<b>0.300</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	440	1.700
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>440</b>	<b>1.700</b>

Installation Schedule																																
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
		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	406	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	440
Out	406	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	440

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Models of Systems Affected:</b> CH-47		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000
<b>Type Modification:</b> Unclassified		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Engine Improvement		<b>Method of Implementation:</b> Various				<b>Installation Name:</b>						
Installation Cost	Prior Years		FY 2011		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 (\$ 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	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Engine Improvement	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Maintenance Training Devices (MTD)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Maintenance Training Devices (MTD)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	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				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Transformation Sets, Kits and Outfits	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000		

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Transformation Sets, Kits and Outfits	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> M24A1 Window/Door Gun Mount	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Models of Systems Affected:</b> CH-47		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000
<b>Type Modification:</b> Unclassified		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> M24A1 Window/Door Gun Mount		<b>Method of Implementation:</b> Various						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
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	

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Adjustable Pitch Change Link		<b>Method of Implementation:</b> Various						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
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	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Adjustable Pitch Change Link	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																														
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	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	-	0	0	0	0	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	

<b>Installation:</b> Crashworthy Pilot Seats	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army							<b>Date:</b> February 2012								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000					
<b>Models of Systems Affected:</b> CH-47				<b>Type Modification:</b> Unclassified						<b>Related RDT&amp;E PEs:</b>					

<b>Installation:</b> Crashworthy Pilot Seats				<b>Method of Implementation:</b> Various						<b>Installation Name:</b>					
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	120	0.379	0	0.000	0	0.000	0	0.000	120	0.379
FY 2016	0	0.000	0	0.000	100	0.321	0	0.000	0	0.000	100	0.321
FY 2017	0	0.000	0	0.000	0	0.000	100	0.326	0	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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>120</b>	<b>0.379</b>	<b>100</b>	<b>0.321</b>	<b>100</b>	<b>0.326</b>	<b>1,030</b>	<b>3.463</b>	<b>1,350</b>	<b>4.489</b>

Installation Schedule																															
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	-	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	30	30	30	30	24	24	26	26	24	24	26	26	1,030	1,450
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	30	30	30	30	24	24	26	26	24	24	26	26	1,030	1,450



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000
<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> AVCATT		<b>Method of Implementation:</b> Various				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> AVCATT	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> CH-47 MISC Mods \$5M or Less	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	35	2.300	0	1.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> CH-47 MISC Mods \$5M or Less	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	3.300

Installation Schedule		FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Cargo On/Off Loading System (COOLS) and COOLS BPS	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	3.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	3.200	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	26	1.928	0	0.000	26	1.928
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
<b>Total</b>	0	3.200	0	3.200	0	0.000	26	1.928	0	0.000	26	1.928

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.200

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000		

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Cargo On/Off Loading System (COOLS) and COOLS BPS	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.200
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	26	1.928
FY 2014	52	3.921	0	0.000	0	0.000	0	0.000	0	0.000	52	3.921
FY 2015	0	0.000	72	5.521	0	0.000	0	0.000	0	0.000	72	5.521
FY 2016	0	0.000	0	0.000	72	5.615	0	0.000	0	0.000	72	5.615
FY 2017	0	0.000	0	0.000	0	0.000	72	5.710	0	0.000	72	5.710
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	56	4.517	56	4.517
<b>Total</b>	<b>52</b>	<b>3.921</b>	<b>72</b>	<b>5.521</b>	<b>72</b>	<b>5.615</b>	<b>72</b>	<b>5.710</b>	<b>56</b>	<b>4.517</b>	<b>350</b>	<b>33.612</b>

**Installation Schedule**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	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
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

<b>Installation:</b> Aircraft Component Parts-Marking	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Aircraft Component Parts-Marking	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> New Equipment Training (NET)		<b>Method of Implementation:</b> Various		<b>Installation Name:</b>								
Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> New Equipment Training (NET)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	-	0	0	0	0	0	0	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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Models of Systems Affected:</b> CH-47		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000
<b>Type Modification:</b> Unclassified		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Improved Rotor Blades		<b>Method of Implementation:</b> Various				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Improved Rotor Blades	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Special Operations Aircraft Commonality	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Special Operations Aircraft Commonality	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	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				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Transmission and Torque Management	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Transmission and Torque Management	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Airframe Optimization and Payload Improvements	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000		

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Airframe Optimization and Payload Improvements	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Improved Vibration Control System	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Improved Vibration Control System	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	30	1.183	0	0.000	0	0.000	0	0.000	30	1.183
FY 2016	0	0.000	0	0.000	56	2.246	0	0.000	0	0.000	56	2.246
FY 2017	0	0.000	0	0.000	0	0.000	47	1.917	0	0.000	47	1.917
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	417	18.584	417	18.584
Total	0	0.000	30	1.183	56	2.246	47	1.917	417	18.584	550	23.930

Installation Schedule																																
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
		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	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	14	14	14	14	14	11	12	12	12	417	550
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	14	14	14	14	14	11	12	12	12	417	550

<b>Installation:</b> Cargo Platform Health Environment	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Cargo Platform Health Environment	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)
<b>Models of Systems Affected:</b> CH-47		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000
<b>Type Modification:</b> Unclassified		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Degraded Visual Environment (MOD 21)			<b>Method of Implementation:</b> Various				<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	14.277
Total	0	0.000	0	0.000	0	0.000	0	0.000	550	19.013	550	19.013

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0252 - CH-47 Cargo Helicopter Mods (MYP)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): CH-47 Cargo Helicopter Mods - 0000

<b>Models of Systems Affected:</b> CH-47	<b>Type Modification:</b> Unclassified	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Degraded Visual Environment (MOD 21)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	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

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :  
Modification Of Aircraft

**P-1 Line Item Nomenclature:**  
AA0270 - Utility/Cargo Airplane Mods

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

Secondary 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	12.107	10.259	-	10.259	11.729	11.036	14.139	14.107
Army National Guard	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.571	-	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

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Utility/Cargo Airplane Mods - 0000	P3A		-	-	190.627	-	-	16.338	-	-	12.107	-	-	24.842	-	-	-	-	-	24.842
<b>Total Gross/Weapon System Cost</b>					<b>190.627</b>			<b>16.338</b>			<b>12.107</b>			<b>24.842</b>			<b>-</b>			<b>24.842</b>



**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :  
 Modification Of Aircraft

**P-1 Line Item Nomenclature:**  
 AA0270 - Utility/Cargo Airplane Mods

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

Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )	Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )	Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )	Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )	Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )	Unit Cost (\$ K )	Qty (Each)	Total Cost (\$ M )
Utility/Cargo Airplane Mods - 0000	P3A		-	-	28.897	-	-	15.167	-	-	22.612	-	-	23.833	-	-	0.000	-	-	334.423
<b>Total Gross/Weapon System Cost</b>					<b>28.897</b>			<b>15.167</b>			<b>22.612</b>			<b>23.833</b>			<b>0.000</b>			<b>334.423</b>

\*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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0270 - Utility/Cargo Airplane Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Utility/Cargo Airplane Mods - 0000

<b>Models of Systems Affected:</b> All series Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>190.627</b>	<b>16.338</b>	<b>12.107</b>	<b>24.842</b>	<b>-</b>	<b>24.842</b>	<b>28.897</b>	<b>15.167</b>	<b>22.612</b>	<b>23.833</b>	<b>0.000</b>	<b>334.423</b>

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

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

**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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0270 - Utility/Cargo Airplane Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Utility/Cargo Airplane Mods - 0000
<b>Models of Systems Affected:</b> All series Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

Financial Plan	Prior Years		FY 2011		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 (\$ M)
<b>Procurement</b>												
Fixed Wing Aircraft Modification and Upgrade <sup>(1)</sup>												
A Kits												
Recurring												
Installation Kits	169	133.339	21	11.337	11	8.375	23	17.289	0	0.000	23	17.289
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.100
<i>Subtotal Recurring</i>		133.439		11.437		8.475		17.389		0.000		17.389
<i>Total, Fixed Wing Aircraft Modification and Upgrade</i>	169	133.439	21	11.437	11	8.475	23	17.389	0	0.000	23	17.389
<i>Total, All Modifications</i>		133.439		11.437		8.475		17.389		0.000		17.389
<i>Procurement Cost (Procurement + Support)</i>		133.439		11.437		8.475		17.389		0.000		17.389
<i>Total Installation Cost</i>		57.188		4.901		3.632		7.453		0.000		7.453
<b>Total Cost (Procurement + Support + Installation)</b>		190.627		16.338		12.107		24.842		0.000		24.842

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Procurement</b>												
Fixed Wing Aircraft Modification and Upgrade <sup>(1)</sup>												
A Kits												
Recurring												
Installation Kits	19	20.128	26	10.517	25	15.728	25	16.583	0	0.000	319	233.296
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.800
<i>Subtotal Recurring</i>		20.228		10.617		15.828		16.683		0.000		234.096
<i>Total, Fixed Wing Aircraft Modification and Upgrade</i>	19	20.228	26	10.617	25	15.828	25	16.683	0	0.000	319	234.096
<i>Total, All Modifications</i>		20.228		10.617		15.828		16.683		0.000		234.096
<i>Procurement Cost (Procurement + Support)</i>		20.228		10.617		15.828		16.683		0.000		234.096
<i>Total Installation Cost</i>		8.669		4.550		6.784		7.150		0.000		100.327
<b>Total Cost (Procurement + Support + Installation)</b>		28.897		15.167		22.612		23.833		0.000		334.423

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0270 - Utility/Cargo Airplane Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Utility/Cargo Airplane Mods - 0000

<b>Models of Systems Affected:</b> All series Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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**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.

<b>Manufacturer Information: Fixed Wing Aircraft Modification and Upgrade</b>	
Manufacturer Name: Multiple Commercial Lenders	Manufacturer Location: TBD
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 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

<b>Installation: Fixed Wing Aircraft Modification and Upgrade</b>		<b>Method of Implementation:</b> Contractor				<b>Installation Name:</b>						
Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	169	57.188	21	4.901	11	3.632	23	7.453	0	0.000	23	7.453

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	169	57.188

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0270 - Utility/Cargo Airplane Mods
<b>Models of Systems Affected:</b> All series Army fixed wing aircraft		<b>Modification Nomenclature (Modification Title, Modification Number):</b> Utility/Cargo Airplane Mods - 0000
<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Fixed Wing Aircraft Modification and Upgrade	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	<b>19</b>	<b>8.669</b>	<b>26</b>	<b>4.550</b>	<b>25</b>	<b>6.784</b>	<b>25</b>	<b>7.150</b>	<b>0</b>	<b>0.000</b>	<b>319</b>	<b>100.327</b>

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	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	319

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0560 - Aircraft Long Range Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

	Secondary 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.

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	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 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)	-	834.156	437.105	-	-	-	-	-	-	-	-	Continuing

**Description:**

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.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
UH-60L to UH-60L Conversion - 0000	P3A		-	-	1,119.322	-	-	128.460	-	-	74.745	-	-	73.804	-	-	-	-	-	73.804
<b>Total Gross/Weapon System Cost</b>					<b>1,119.322</b>			<b>128.460</b>			<b>74.745</b>			<b>73.804</b>			-			<b>73.804</b>
		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
UH-60L to UH-60L Conversion - 0000	P3A		-	-	74.095	-	-	77.214	-	-	89.066	-	-	117.494	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>74.095</b>			<b>77.214</b>			<b>89.066</b>			<b>117.494</b>			-			-

\*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:**

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<p>FY 13 Base procurement dollars in the amount of \$73.8 million will procure Crashworthy External Fuel Systems (CEFS), UH-60 A to L Conversions and External High Speed Hoists. CEFS is a safety modification that reduces the risk of a post-crash fire. The UH-60 A to L Conversion program expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/upgrade program.</p> <p>In accordance with section 1815 of the FY 2008 National Defense Authorization Act P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.</p>		



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods				<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> UH-60L to UH-60L Conversion - 0000				
<b>Models of Systems Affected:</b> UH-60L			<b>Type Modification:</b> Operational					<b>Related RDT&amp;E PEs:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK and the UH-72A LAKOTA helicopter.												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000				
<b>Models of Systems Affected:</b> UH-60L			<b>Type Modification:</b> Operational					<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
Crashworthy External Fuel System (CEFS) <sup>(1)</sup>													
A Kits													
Recurring													
A-Kits (A/L)	803	45.400	28	2.700	76	5.400	53	3.767	0	0.000	53	3.767	
A-Kits (GFE to Production)	32	2.700	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
A-Kits (GFE to SAR Acft)	10	0.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
B-kits	433	59.100	9	1.400	26	4.000	21	3.200	0	0.000	21	3.200	
Support Equipment/Other	0	31.600	0	1.600	0	0.966	0	1.405	0	0.000	0	1.405	
<i>Subtotal Recurring</i>		139.400		5.700		10.366		8.372		0.000		8.372	
<i>Total, Crashworthy External Fuel System (CEFS)</i>	1,278	139.400	37	5.700	102	10.366	74	8.372	0	0.000	74	8.372	
UH-60A to UH-60L Conversion <sup>(2)</sup>													
A Kits													
Recurring													
other	38	94.500	47	73.530	43	53.165	42	53.506	0	0.000	42	53.506	
<i>Subtotal Recurring</i>		94.500		73.530		53.165		53.506		0.000		53.506	
NonRecurring													
other	0	858.122	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal NonRecurring</i>		858.122		0.000		0.000		0.000		0.000		0.000	
<i>Total, UH-60A to UH-60L Conversion</i>	38	952.622	47	73.530	43	53.165	42	53.506	0	0.000	42	53.506	
UH-60L to UH-60L Conversion <sup>(3)</sup>													
A Kits													
Recurring													
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000	
<i>Total, UH-60L to UH-60L Conversion</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
External High Speed Hoist <sup>(4)</sup>													
A Kits													

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000					
<b>Models of Systems Affected:</b> UH-60L			<b>Type Modification:</b> Operational					<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
Recurring													
Other	0	0.000	0	0.000	31	10.014	36	11.126	0	0.000	36	11.126	
<i>Subtotal Recurring</i>		0.000		0.000		10.014		11.126		0.000		11.126	
<i>Total, External High Speed Hoist</i>	0	0.000	0	0.000	31	10.014	36	11.126	0	0.000	36	11.126	
UH-60 SPONSON FLIR <sup>(5)</sup>													
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	
<i>Subtotal Recurring</i>		21.100		46.330		0.000		0.000		0.000		0.000	
<i>Total, UH-60 SPONSON FLIR</i>	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>													
A Kits													
Recurring													
Other	0	0.000	72	2.500	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		0.000		2.500		0.000		0.000		0.000		0.000	
<i>Total, Ballistic Protection Systems (BAPS)</i>	0	0.000	72	2.500	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Total, All Modifications</i>		1,113.122		128.060		73.545		73.004		0.000		73.004	
<i>Procurement Cost (Procurement + Support)</i>		1,113.122		128.060		73.545		73.004		0.000		73.004	
<i>Total Installation Cost</i>		6.200		0.400		1.200		0.800		0.000		0.800	
<b>Total Cost (Procurement + Support + Installation)</b>		1,119.322		128.460		74.745		73.804		0.000		73.804	
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Crashworthy External Fuel System (CEFS) <sup>(1)</sup>													

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10					<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000			
<b>Models of Systems Affected:</b> UH-60L				<b>Type Modification:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
A Kits													
Recurring													
A-Kits (A/L)	65	4.800	52	3.839	0	0.000	0	0.000	0	0.000	1,077	65.906	
A-Kits (GFE to Production)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	32	2.700	
A-Kits (GFE to SAR Acft)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	10	0.600	
B-kits	22	3.400	18	2.718	0	0.000	0	0.000	0	0.000	529	73.818	
Support Equipment/Other	0	1.263	0	0.751	0	0.000	0	0.000	0	0.000	0	37.585	
<i>Subtotal Recurring</i>		9.463		7.308		0.000		0.000		0.000		180.609	
<i>Total, Crashworthy External Fuel System (CEFS)</i>	87	9.463	70	7.308	0	0.000	0	0.000	0	0.000	1,648	180.609	
UH-60A to UH-60L Conversion <sup>(2)</sup>													
A Kits													
Recurring													
other	33	42.742	43	56.616	0	0.000	0	0.000	0	0.000	246	374.059	
<i>Subtotal Recurring</i>		42.742		56.616		0.000		0.000		0.000		374.059	
NonRecurring													
other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	858.122	
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		858.122	
<i>Total, UH-60A to UH-60L Conversion</i>	33	42.742	43	56.616	0	0.000	0	0.000	0	0.000	246	1,232.181	
UH-60L to UH-60L Conversion <sup>(3)</sup>													
A Kits													
Recurring													
Other	0	0.000	0	0.000	24	73.548	38	117.494	0	0.000	62	191.042	
<i>Subtotal Recurring</i>		0.000		0.000		73.548		117.494		0.000		191.042	
<i>Total, UH-60L to UH-60L Conversion</i>	0	0.000	0	0.000	24	73.548	38	117.494	0	0.000	62	191.042	
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	70.138	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Subtotal Recurring</i>		21.190		12.290		15.518		0.000		0.000		70.138
<i>Total, External High Speed Hoist</i>	65	21.190	44	12.290	55	15.518	0	0.000	0	0.000	231	70.138
UH-60 SPONSON FLIR <sup>(5)</sup>												
A Kits												
Recurring												
A Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	60	7.600
B Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	55.420
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.800
Interim Contractor Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.610
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		67.430
<i>Total, UH-60 SPONSON FLIR</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	140	67.430
Ballistic Protection Systems (BAPS) <sup>(6)</sup>												
A Kits												
Recurring												
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	72	2.500
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		2.500
<i>Total, Ballistic Protection Systems (BAPS)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	72	2.500
<i>Total, All Modifications</i>		73.395		76.214		89.066		117.494		0.000		1,743.900
<i>Procurement Cost (Procurement + Support)</i>		73.395		76.214		89.066		117.494		0.000		1,743.900
<i>Total Installation Cost</i>		0.700		1.000		0.000		0.000		0.000		10.300
<b>Total Cost (Procurement + Support + Installation)</b>		<b>74.095</b>		<b>77.214</b>		<b>89.066</b>		<b>117.494</b>		<b>0.000</b>		<b>1,754.200</b>

**Remarks:**

(1)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.

(2)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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000	
<b>Models of Systems Affected:</b> UH-60L			<b>Type Modification:</b> Operational			<b>Related RDT&amp;E PEs:</b>	
<p><sup>(3)</sup>Expands the current UH-60 A to L recapitalization/rebuild program to a UH-60 L to L recapitalization/upgrade program. Leverages ongoing UH-60 A to L recapitalization to further bridge the gap to UH-60M fielding and further reduces the overall O&amp;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.</p> <p><sup>(4)</sup>Provides an enhanced warfighting capability with the addition of the External High Speed Hoist on UH-60A/L MEDEVAC aircraft.</p> <p><sup>(5)</sup>FY13 OCO procures 45 B-Kits.</p> <p><sup>(6)</sup>Provides ballistic protection to the UH-60 fielded fleet through the use of ballistic blanket or other similar protective device. Because of low altitude and low airspeed tactical flight profiles, Black Hawk helicopters, crews, passengers and cargo are susceptible to damage and injuries from small arms fire. A mission flexible ballistic protection system is needed to protect crews, passengers, cargo and critical aircraft components from small arms damage</p>							
<b>Manufacturer Information: Crashworthy External Fuel System (CEFS)</b>							
Manufacturer Name: Robertson Fuel Systems, LLC				Manufacturer Location: Tempe, AZ			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 2			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Nov 2011					
Delivery Dates		Jan 2012					
<b>Manufacturer Information: UH-60A to UH-60L Conversion</b>							
Manufacturer Name: Corpus Christi Army Depot				Manufacturer Location: Corpus Christi Army Depot			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Oct 2010	Oct 2011					
Delivery Dates	Oct 2011	Oct 2012					
<b>Manufacturer Information: UH-60L to UH-60L Conversion</b>							
Manufacturer Name: Corpus Christi Army Depot				Manufacturer Location: Corpus Christi Army Depot			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates						Oct 2015	
Delivery Dates						Oct 2016	
<b>Manufacturer Information: External High Speed Hoist</b>							
Manufacturer Name: Breeze Eastern, Inc				Manufacturer Location: Whippany, NJ			
Administrative Leadtime ( <i>in Months</i> ): 1				Production Leadtime ( <i>in Months</i> ): 1			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		May 2012					
Delivery Dates		Jun 2012					

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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**Manufacturer Information: UH-60 SPONSON FLIR**

Manufacturer Name: FLIR, Inc.	Manufacturer Location: Wilsonville, OR
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Administrative Leadtime ( <i>in Months</i> ): 1	Production Leadtime ( <i>in Months</i> ): 1
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Sep 2011		Mar 2012				
Delivery Dates	Oct 2011		Apr 2012				

**Manufacturer Information: Ballistic Protection Systems (BAPS)**

Manufacturer Name: Protective Group, Inc.	Manufacturer Location: Miami Lakes, FL
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Administrative Leadtime ( <i>in Months</i> ): 1	Production Leadtime ( <i>in Months</i> ): 1
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Sep 2011						
Delivery Dates	Oct 2011						

**Installation: Crashworthy External Fuel System (CEFS)**

<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	0.000	28	0.400	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	76	1.200	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	53	0.800	0	0.000	53	0.800
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	807	6.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<b>Total</b>	<b>807</b>	<b>6.200</b>	<b>28</b>	<b>0.400</b>	<b>76</b>	<b>1.200</b>	<b>53</b>	<b>0.800</b>	<b>0</b>	<b>0.000</b>	<b>53</b>	<b>0.800</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	28	0.400

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
<b>Modification Nomenclature</b> (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000		

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Crashworthy External Fuel System (CEFS)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	76	1.200
FY 2012	0	0.000	0	0.000	0	0.000	0	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	0	0.000	0	0.000	0	0.000	52	1.000
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	807	6.200
<b>Total</b>	<b>65</b>	<b>0.700</b>	<b>52</b>	<b>1.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>1,081</b>	<b>10.300</b>

APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot											
	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	807	7	7	7	7	19	19	19	19	13	13	13	14	16	16	16	17	13	13	13	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,081	
Out	798	9	7	7	7	7	19	19	19	19	13	13	13	14	16	16	16	17	13	13	13	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,081

<b>Installation:</b> UH-60A to UH-60L Conversion	<b>Method of Implementation:</b> Depot	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
<b>Modification Nomenclature</b> (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000		

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> UH-60A to UH-60L Conversion	<b>Method of Implementation:</b> Depot	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																																	
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	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	0	0	284
Out	66	10	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	0	284

<b>Installation:</b> UH-60L to UH-60L Conversion	<b>Method of Implementation:</b> Depot	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> UH-60L to UH-60L Conversion	<b>Method of Implementation:</b> Depot	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	9	9	10	10	0	62
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	9	9	10	10	62

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> External High Speed Hoist	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): UH-60L to UH-60L Conversion - 0000

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> External High Speed Hoist	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	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

<b>Installation:</b> UH-60 SPONSON FLIR	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	20	0.000	0	0.000	15	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
<b>Modification Nomenclature</b> (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000		

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> UH-60 SPONSON FLIR	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	35	0.000

Installation Schedule																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	20	15	15	15	15	0	0	0	0	0	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
Out	15	5	15	15	15	15	0	0	0	0	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

<b>Installation:</b> Ballistic Protection Systems (BAPS)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0480 - Utility Helicopter Mods
<b>Modification Nomenclature</b> (Modification Title, Modification Number): UH-60L to UH-60L Conversion - 0000		

<b>Models of Systems Affected:</b> UH-60L	<b>Type Modification:</b> Operational	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Ballistic Protection Systems (BAPS)	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
		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	-	18	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	0	0	72
Out	-	0	18	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	0	72

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:						Other Related Program Elements:					
Resource Summary	Prior Years	FY 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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The 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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Kiowa Warrior Modification Programs - several	P3A		-	-	752.218	-	-	202.437	-	-	92.552	-	-	192.484	-	-	-	-	-	192.484
<b>Total Gross/Weapon System Cost</b>					<b>752.218</b>			<b>202.437</b>			<b>92.552</b>			<b>192.484</b>			<b>-</b>			<b>192.484</b>
		FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Kiowa Warrior Modification Programs - several	P3A		-	-	341.871	-	-	485.709	-	-	577.703	-	-	536.035	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>341.871</b>			<b>485.709</b>			<b>577.703</b>			<b>536.035</b>			<b>-</b>			<b>-</b>

\*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.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<b>Justification:</b> FY 2013 Base Funding in the amount of \$192.484 Million will procure Cockpit and Sensor Upgrade Program (CASUP) (OH-58F) long-lead and Recap components (\$122.693 Million), and continue Weight Reduction and Fielded Fleet Upgrade programs for the fielded fleet of OH-58D(R) aircraft (\$69.791 Million). CASUP modifications will allow the Kiowa Warrior to safely serve as the Army's, armed-reconnaissance, aviation platform until replaced/retired.  All COMPO 1 Active		



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>752.218</b>	<b>202.437</b>	<b>92.552</b>	<b>192.484</b>	<b>-</b>	<b>192.484</b>	<b>341.871</b>	<b>485.709</b>	<b>577.703</b>	<b>536.035</b>	<b>Continuing</b>	<b>Continuing</b>

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

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

**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 meaintenance 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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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 rotatable 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.

<b>Development Status/Major Development Milestones</b>		
<b>Date</b>	<b>Title</b>	<b>Description</b>
Dec 2010	CASUP Milestone B	
Feb 2015	CASUP Milestone C	
Aug 2016	CASUP First Unit Equipped (FUE)	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR						<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety					<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<b>Procurement</b>												
Safety Enhancement Program (SEP) <sup>(1)</sup>												
A Kits												
Recurring												
Recurring - Bell Helicopter	371	203.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Engineering Change Orders	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircraft Preparation	0	16.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Fielding	0	7.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Training/Training Devices	0	9.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Other	0	23.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Technical Support	0	7.352	0	0.147	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>268.452</i>		<i>0.147</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
NonRecurring												
Nonrecurring	0	54.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		<i>54.200</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
B Kits												
Recurring												
Government-Furnished Equipment	0	155.000	0	2.585	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>155.000</i>		<i>2.585</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Safety Enhancement Program (SEP)</i>	<i>371</i>	<i>477.652</i>	<i>0</i>	<i>2.732</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
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	0.000
Data/Pubs/Manuals	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Support Equipment	0	10.300	0	0.086	0	4.299	0	8.100	0	0.000	0	8.100
Other	0	17.300	0	12.051	0	0.236	0	6.245	0	0.000	0	6.245

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several				
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
Fielding	0	2.431	0	0.926	0	0.000	0	0.000	0	0.000	0	0.000
Training/Training Devices	0	7.800	0	0.000	0	2.080	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		42.731		13.063		6.615		14.345		0.000		14.345
NonRecurring												
Nonrecurring	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		1.200		0.000		0.000		0.000		0.000		0.000
B Kits												
Recurring												
Hardware	0	126.300	0	26.264	0	83.471	0	54.542	0	0.000	0	54.542
<i>Subtotal Recurring</i>		126.300		26.264		83.471		54.542		0.000		54.542
<i>Total, Fielded Fleet Upgrades and Weight Reduction</i>	0	170.231	0	39.327	0	90.086	0	68.887	0	0.000	0	68.887
Level II Manned-Unmanned (L2MUM) Teaming <sup>(3)</sup>												
A Kits												
Recurring												
A-Kits	91	1.500	286	10.575	0	0.000	0	0.000	0	0.000	0	0.000
PrePlanned Product Improvement (P3I)	0	0.000	0	11.323	0	0.000	0	0.000	0	0.000	0	0.000
Fielding/ICS	0	0.000	0	5.047	0	0.000	0	0.000	0	0.000	0	0.000
Program Management	0	0.235	0	0.245	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		1.735		27.190		0.000		0.000		0.000		0.000
B Kits												
Recurring												
B-Kits	90	22.118	90	19.350	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		22.118		19.350		0.000		0.000		0.000		0.000
<i>Total, Level II Manned-Unmanned (L2MUM) Teaming</i>	181	23.853	376	46.540	0	0.000	0	0.000	0	0.000	0	0.000
Wartime Replacement Aircraft (WRA) <sup>(4)</sup>												
A Kits												
Recurring												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
AC Modification Quantity	6	0.000	9	0.000	0	0.000	0	0.000	0	0.000	0	0.000
BHTI Cabin Mod/New Metal Cabins	0	30.401	0	32.441	0	0.000	0	0.000	0	0.000	0	0.000
GFE/Hardware	0	28.255	0	48.075	0	0.000	0	0.000	0	0.000	0	0.000
CCAD Labor/Material	0	8.462	0	11.291	0	0.000	0	0.000	0	0.000	0	0.000
Program Support - Govt	0	3.117	0	3.783	0	0.000	0	0.000	0	0.000	0	0.000
ECP	0	0.000	0	15.500	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		70.235		111.090		0.000		0.000		0.000		0.000
<i>Total, Wartime Replacement Aircraft (WRA)</i>	6	70.235	9	111.090	0	0.000	0	0.000	0	0.000	0	0.000
Cockpit And Sensor Upgrade Program (CASUP) <sup>(5)</sup>												
A Kits												
Recurring												
Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Training Devices / NET	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Post Deployment Software Supt	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	0.000	0	0.000	0	0.000
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Cockpit And Sensor Upgrade Program (CASUP)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
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	14.203
BHTI A-Kits	0	0.000	0	0.000	0	0.000	35	10.239	0	0.000	35	10.239
Tooling	0	0.000	0	0.000	0	0.000	0	7.951	0	0.000	0	7.951
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	Prior Years		FY 2011		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 (\$ 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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>38.244</i>		<i>0.000</i>		<i>38.244</i>
<b>B Kits</b>												
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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>47.230</i>		<i>0.000</i>		<i>47.230</i>
<i>Total, OH-58F CASUP Long Lead</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>153</i>	<i>85.474</i>	<i>0</i>	<i>0.000</i>	<i>153</i>	<i>85.474</i>
<b>OH-58F CASUP Recapitalization <sup>(7)</sup></b>												
<b>A Kits</b>												
Recurring												
OH-58F Cabin Recurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
NonRecurring												
OH-58F Cabin Tooling	0	0.000	0	0.000	0	0.000	0	22.009	0	0.000	0	22.009
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>22.009</i>		<i>0.000</i>		<i>22.009</i>
<b>B Kits</b>												
Recurring												
Recap Component Rotable Pool	0	0.000	0	0.000	0	0.000	9	15.210	0	0.000	9	15.210
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>15.210</i>		<i>0.000</i>		<i>15.210</i>
<i>Total, OH-58F CASUP Recapitalization</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>9</i>	<i>37.219</i>	<i>0</i>	<i>0.000</i>	<i>9</i>	<i>37.219</i>
<b>Total, All Modifications</b>		<b>741.971</b>		<b>199.689</b>		<b>90.086</b>		<b>191.580</b>		<b>0.000</b>		<b>191.580</b>
<i>Procurement Cost (Procurement + Support)</i>		<i>741.971</i>		<i>199.689</i>		<i>90.086</i>		<i>191.580</i>		<i>0.000</i>		<i>191.580</i>
<i>Total Installation Cost</i>		<i>10.247</i>		<i>2.748</i>		<i>2.466</i>		<i>0.904</i>		<i>0.000</i>		<i>0.904</i>
<b>Total Cost (Procurement + Support + Installation)</b>		<b>752.218</b>		<b>202.437</b>		<b>92.552</b>		<b>192.484</b>		<b>0.000</b>		<b>192.484</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety					<b>Related RDT&amp;E PEs:</b>				
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Safety Enhancement Program (SEP) <sup>(1)</sup>												
A Kits												
Recurring												
Recurring - Bell Helicopter	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	371	203.900
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.800
Aircraft Preparation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.300
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.000
Training/Training Devices	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.000
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	23.100
Technical Support	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.499
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>268.599</i>
NonRecurring												
Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	54.200
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>54.200</i>
B Kits												
Recurring												
Government-Furnished Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	157.585
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>157.585</i>
<i>Total, Safety Enhancement Program (SEP)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>371</i>	<i>480.384</i>
Fielded Fleet Upgrades and Weight Reduction <sup>(2)</sup>												
A Kits												
Recurring												
Recurring Labor	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.900
Data/Pubs/Manuals	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.000
Support Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.785
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	35.832

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.357
Training/Training Devices	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.880
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>76.754</i>
NonRecurring												
Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.200
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>1.200</i>
B Kits												
Recurring												
Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	290.577
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>290.577</i>
<i>Total, Fielded Fleet Upgrades and Weight Reduction</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>368.531</i>
Level II Manned-Unmanned (L2MUM) Teaming <sup>(3)</sup>												
A Kits												
Recurring												
A-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	377	12.075
PrePlanned Product Improvement (P3I)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	11.323
Fielding/ICS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.047
Program Management	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.480
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>28.925</i>
B Kits												
Recurring												
B-Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	180	41.468
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>41.468</i>
<i>Total, Level II Manned-Unmanned (L2MUM) Teaming</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>557</i>	<i>70.393</i>
Wartime Replacement Aircraft (WRA) <sup>(4)</sup>												
A Kits												
Recurring												



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
AC Modification Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	0.000
BHTI Cabin Mod/New Metal Cabins	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	62.842
GFE/Hardware	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	76.330
CCAD Labor/Material	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	19.753
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
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		181.325
<i>Total, Wartime Replacement Aircraft (WRA)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	15	181.325
Cockpit And Sensor Upgrade Program (CASUP) <sup>(5)</sup>												
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	52.951
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
<i>Subtotal Recurring</i>		0.000		72.074		98.562		97.806		140.910		409.352
<i>Total, Cockpit And Sensor Upgrade Program (CASUP)</i>	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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several			
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety						<b>Related RDT&amp;E PEs:</b>			
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		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
<i>Subtotal Recurring</i>		103.703		136.935		118.010		108.167		132.419		646.464
<i>Total, OH-58F CASUP Long Lead</i>	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
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		104.844		0.000		0.000		0.000		0.000		120.054
<i>Total, OH-58F CASUP Recapitalization</i>	79	167.636	51	195.243	71	262.139	68	245.094	94	330.130	372	1,237.461
<i>Total, All Modifications</i>		341.871		438.755		507.074		479.342		638.878		3,629.246
<i>Procurement Cost (Procurement + Support)</i>		341.871		438.755		507.074		479.342		638.878		3,629.246
<i>Total Installation Cost</i>		0.000		46.954		70.629		56.693		143.853		334.494
<b>Total Cost (Procurement + Support + Installation)</b>		341.871		485.709		577.703		536.035		782.731		3,963.740

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army				<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several	
<b>Models of Systems Affected:</b> OH-58D, OH-58F		<b>Type Modification:</b> Operational/Safety			<b>Related RDT&amp;E PEs:</b>		
<b>Remarks:</b> (1) Multiple installations were done on individual aircraft. The majority of aircraft were block-modified on the Bell Helicopter Textron, Inc. line via annual contractual orders and were delivered over a 12-month period; however, the final Safety Enhancement Program (SEP) lot (lot 13) was delivered over a 18 month period. Some portions of the SEP modification were completed via field retrofit. The block-modification installations on the contractor's modification line were not priced separately from the fielded fleet retrofits and therefore the dollars for both are embedded in the Recurring line for each year. Lot 13 completed delivery in September 2011. (2) Aircraft will be equipped/modified via field retrofits, no block modification planned. (3) The KW L2MUM system is comparable to the Apache MUM-2T system and will be fully interoperable with Apache, Raven, Shadow, Gray Eagle, Predator, and many other DoD manned and unmanned platforms. First fielded unit is operating in theater. (4) The KW Wartime Replacement Aircraft (WRA) production process consists of 4 phases involving government and industry teams executing over a 30-month period of time. Phase I (6 months) is the depopulation of an OH-58A/C (A) model cabin; Phase II (6 months) is structural preparation of an 'A' cabin; Phase III (12 months) is cabin build-up to the OH-58D configuration; and Phase IV (6 months) is final assembly, test flights, and acceptance. The inputs in the Installation Schedule reflect start of Phase I; outputs reflect completion and DD250 of fully flyable aircraft. Contract and Delivery Dates at the top of this page reflect Lot 2. (5) The government is serving as lead system integrator for Cockpit and Sensor Upgrade Program (CASUP). Milestone B approved 21 December 2010 (6) The government is serving as lead system integrator for Cockpit and Sensor Upgrade Program (CASUP). Milestone B approved 21 December 2010. Procurement awards listed reflect shipsets of long lead items. (7) The Recapitalization Program 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 Cockpit and Sensor Upgrade Program (CASUP) production line. Efforts include production of new metal cabins (including new wiring harnesses) manufactured by Bell Helicopter Textron, Inc. and a rotatable 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.							
<b>Manufacturer Information: Safety Enhancement Program (SEP)</b>							
Manufacturer Name: Bell Helicopter Textron Incorporated (BHTI)				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Fielded Fleet Upgrades and Weight Reduction</b>							
Manufacturer Name: various				Manufacturer Location: various			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Level II Manned-Unmanned (L2MUM) Teaming</b>							
Manufacturer Name: L-3 Communications				Manufacturer Location: Salt Lake City, UT			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several	
<b>Models of Systems Affected:</b> OH-58D, OH-58F			<b>Type Modification:</b> Operational/Safety			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Level II Manned-Unmanned (L2MUM) Teaming</b>							
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Wartime Replacement Aircraft (WRA)</b>							
Manufacturer Name: Bell Helicopter Textron Incorporated and Corpus Christi Army Depot (CCAD)				Manufacturer Location: Fort Worth, TX and Corpus Christi, TX			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 30			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Aug 2011						
Delivery Dates	Oct 2012						
<b>Manufacturer Information: Cockpit And Sensor Upgrade Program (CASUP)</b>							
Manufacturer Name: Corpus Christi Army Depot (CCAD)				Manufacturer Location: Corpus Christi, TX			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 6			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates					Mar 2015	Mar 2016	Mar 2017
Delivery Dates					Sep 2015	Sep 2016	Sep 2017
<b>Manufacturer Information: OH-58F CASUP Long Lead</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 21			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Mar 2013	Mar 2014	Mar 2015	Mar 2016	Mar 2017
Delivery Dates			Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019
<b>Manufacturer Information: OH-58F CASUP Recapitalization</b>							
Manufacturer Name: Bell Helicopter Textron, Inc				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 15			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates				Mar 2014	Mar 2015	Mar 2016	Mar 2017
Delivery Dates				Jul 2015	Jul 2016	Jul 2017	Jul 2018

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Safety Enhancement Program (SEP)	<b>Method of Implementation:</b> FFP	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	5.800	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	5.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Kiowa Warrior Modification Programs - several		

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Safety Enhancement Program (SEP)	<b>Method of Implementation:</b> FFP	<b>Installation Name:</b>
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Installation Schedule																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0

<b>Installation:</b> Fielded Fleet Upgrades and Weight Reduction	<b>Method of Implementation:</b> various	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	4.200	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	2.466	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.904	0	0.000	0	0.904
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	4.200	0	0.000	0	2.466	0	0.904	0	0.000	0	0.904

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.200
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	2.466
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.904
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Kiowa Warrior Modification Programs - several		

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Fielded Fleet Upgrades and Weight Reduction	<b>Method of Implementation:</b> various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Level II Manned-Unmanned (L2MUM) Teaming	<b>Method of Implementation:</b> various contracts	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Kiowa Warrior Modification Programs - several		

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Level II Manned-Unmanned (L2MUM) Teaming	<b>Method of Implementation:</b> various contracts	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	6	0.247
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	174	2.748
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	180	2.995

		FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332

<b>Installation:</b> Wartime Replacement Aircraft (WRA)	<b>Method of Implementation:</b> Sole Source/Firm Fixed Price (SS/FFP) and Military Interdepartmental Purchase Request (MIPR)	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Wartime Replacement Aircraft (WRA)	<b>Method of Implementation:</b> Sole Source/Firm Fixed Price (SS/FFP) and Military Interdepartmental Purchase Request (MIPR)	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Schedule																																	
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
		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	6	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Out	-	0	0	0	0	0	0	0	2	3	1	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Cockpit And Sensor Upgrade Program (CASUP)	<b>Method of Implementation:</b> Military Interdepartmental Purchase Request (MIPR)	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	143.853
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>27</b>	<b>46.954</b>	<b>55</b>	<b>70.629</b>	<b>76</b>	<b>56.693</b>	<b>210</b>	<b>143.853</b>	<b>368</b>	<b>318.129</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Cockpit And Sensor Upgrade Program (CASUP)	<b>Method of Implementation:</b> Military Interdepartmental Purchase Request (MIPR)	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	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	20	21	247	368
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

<b>Installation:</b> OH-58F CASUP Long Lead	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Kiowa Warrior Modification Programs - several		

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> OH-58F CASUP Long Lead	<b>Method of Implementation:</b> Various	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	-	0	0	0	0	0	0	0	0	0	0	5	8	10	12	13	14	16	18	22	25	25	20	20	20	20	21	20	20	126	435
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	10	12	13	14	16	18	22	25	25	267	435

<b>Installation:</b> OH-58F CASUP Recapitalization	<b>Method of Implementation:</b> SS/FFP	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ2200 - KIOWA WARRIOR	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Kiowa Warrior Modification Programs - several

<b>Models of Systems Affected:</b> OH-58D, OH-58F	<b>Type Modification:</b> Operational/Safety	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> OH-58F CASUP Recapitalization	<b>Method of Implementation:</b> SS/FFP	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
	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	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	12	12	12	15	17	18	18	18	17	17	17	111	302
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	12	12	12	15	17	18	18	180	302

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
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Resource Summary	Prior Years	Program Elements for Code B Items:					Other Related Program Elements:					To Complete	Total
		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017			
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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>													
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.

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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 2 : Modification of Aircraft / BSA 10 :  
Modification Of Aircraft

**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:**

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 (WNV), 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.

Secondary 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 Guard	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.803	-	-	-	-	-	-	-	-
Army Reserve	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.138	-	-	-	-	-	-	-	-

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Airborne Avionics - 0000	P3A		-	-	1,466.253	-	-	209.231	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>1,466.253</b>			<b>209.231</b>			-			-			-			-

		FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Airborne Avionics - 0000	P3A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	1,675.484
<b>Total Gross/Weapon System Cost</b>					-			-			-			-			<b>0.000</b>			<b>1,675.484</b>

\*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:**  
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,466.253</b>	<b>209.231</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>1,675.484</b>

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

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

**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. 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
<p>The Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure Alternative Communications (Alt Comms) A&amp;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.</p> <p>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.</p> <p>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.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M)
<b>Procurement</b>												
DGNS (AN/ASN-128D) P3I <sup>(1)</sup>												
A Kits												
Recurring												
Kit Quantity - B-Kit	1,665	55.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Kit Quantity A-Kit	1,696	17.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
ECPs	0	9.300	0	11.200	0	0.000	0	0.000	0	0.000	0	0.000
Data	0	4.900	0	0.600	0	0.000	0	0.000	0	0.000	0	0.000
Training Equipment	0	5.900	0	2.000	0	0.000	0	0.000	0	0.000	0	0.000
Systems Engineering	0	18.300	0	2.800	0	0.000	0	0.000	0	0.000	0	0.000
Other - PM Admin	0	7.800	0	0.799	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>119.600</i>		<i>17.399</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
NonRecurring												
B-Kit Nonrecurring	0	14.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircrft Integr - Nonrecurring	0	5.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		<i>19.900</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, DGNS (AN/ASN-128D) P3I</i>	<i>3,361</i>	<i>139.500</i>	<i>0</i>	<i>17.399</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Embedded GPS Inertial Navigation System (EGI) P3I <sup>(2)</sup>												
A Kits												
Recurring												
Kit Quantity - B-Kit	186	11.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
ECPs	0	1.800	0	0.100	0	0.000	0	0.000	0	0.000	0	0.000
Data	0	1.200	0	0.100	0	0.000	0	0.000	0	0.000	0	0.000
Training Equipment	0	5.200	0	0.300	0	0.000	0	0.000	0	0.000	0	0.000
Systems Engineering	0	7.800	0	0.300	0	0.000	0	0.000	0	0.000	0	0.000
Other - PM Admin	0	2.500	0	0.237	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000				
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS				<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification				<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Subtotal Recurring</i>		29.600		1.037		0.000		0.000		0.000		0.000
NonRecurring												
B-Kit Nonrecurring	0	4.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircraft Integr - Nonrecurring	0	2.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		7.600		0.000		0.000		0.000		0.000		0.000
<i>Total, Embedded GPS Inertial Navigation System (EGI) P3I</i>	186	37.200	0	1.037	0	0.000	0	0.000	0	0.000	0	0.000
Aviation Tactical Communication Systems (ATCS) <sup>(3)</sup>												
A Kits												
Recurring												
Kit Quantity-B-Kit (ARC-231)	905	84.200	230	17.200	0	0.000	0	0.000	0	0.000	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	0.000	0	0.000	0	0.000
Kit Quantity-A-Kit (ARC-231)	590	43.000	78	2.800	0	0.000	0	0.000	0	0.000	0	0.000
System Engineering	0	19.000	0	3.200	0	0.000	0	0.000	0	0.000	0	0.000
System Test & Evaluation	0	19.300	0	18.300	0	0.000	0	0.000	0	0.000	0	0.000
Fielding/Training	0	14.800	0	7.700	0	0.000	0	0.000	0	0.000	0	0.000
Other - PM Admin	0	26.100	0	8.399	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		252.900		65.899		0.000		0.000		0.000		0.000
NonRecurring												
ECPs - Nonrecurring	0	125.700	0	23.816	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		125.700		23.816		0.000		0.000		0.000		0.000
<i>Total, Aviation Tactical Communication Systems (ATCS)</i>	3,305	378.600	648	89.715	0	0.000	0	0.000	0	0.000	0	0.000
Joint Tactical Radio System (JTRS) <sup>(4)</sup>												
A Kits												
Recurring												
Aircraft Integration	0	0.000	0	13.200	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
System Engineering	0	0.000	0	2.300	0	0.000	0	0.000	0	0.000	0	0.000
Other - PM Admin	0	0.000	0	1.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>16.500</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Joint Tactical Radio System (JTRS)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>16.500</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Mil Flight Operation Quality Assurance (MFOQA) <sup>(5)</sup>												
A Kits												
Recurring												
Kit Quantity	80	4.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Other-PM Admin	0	10.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
System Engineering	0	22.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>37.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
B Kits												
Recurring												
Kit Quantity	80	6.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>6.500</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Mil Flight Operation Quality Assurance (MFOQA)</i>	<i>160</i>	<i>43.500</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
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	0.000
Kit Quantity - IDM Mods	306	8.300	90	2.000	0	0.000	0	0.000	0	0.000	0	0.000
Kit Quantity	240	11.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircraft Integration	0	254.653	0	17.645	0	0.000	0	0.000	0	0.000	0	0.000
ECP (HW)	0	3.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
ECP (SW)	0	71.800	0	24.800	0	0.000	0	0.000	0	0.000	0	0.000
Data	0	4.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Systems Engineering	0	25.300	0	1.900	0	0.000	0	0.000	0	0.000	0	0.000
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	0.000
Other-PM Admin	0	31.600	0	3.428	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		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	0.000
<i>Subtotal NonRecurring</i>		101.800		0.300		0.000		0.000		0.000		0.000
<i>Total, Improved Data Modem (IDM)</i>	2,297	596.553	206	57.373	0	0.000	0	0.000	0	0.000	0	0.000
Aviation Mission Planning System (AMPS) <sup>(7)</sup>												
B Kits												
Recurring												
Kit Quantity- Computer	2,574	32.800	30	0.400	0	0.000	0	0.000	0	0.000	0	0.000
Kit Quantity- Upgrades	0	6.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Kit Quantity - Peripherals	0	17.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
ECPs	0	116.100	0	12.100	0	0.000	0	0.000	0	0.000	0	0.000
Systems Engineering	0	9.400	0	1.000	0	0.000	0	0.000	0	0.000	0	0.000
System Test & Eval	0	8.000	0	1.400	0	0.000	0	0.000	0	0.000	0	0.000
Fielding/Training	0	42.600	0	6.000	0	0.000	0	0.000	0	0.000	0	0.000
Other - PM Admin	0	12.500	0	1.807	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		244.700		22.707		0.000		0.000		0.000		0.000
NonRecurring												
B Kit (Nonrecurring)	0	12.300	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		12.300		0.000		0.000		0.000		0.000		0.000
<i>Total, Aviation Mission Planning System (AMPS)</i>	2,574	257.000	30	22.707	0	0.000	0	0.000	0	0.000	0	0.000
<i>Total, All Modifications</i>		1,452.353		204.731		0.000		0.000		0.000		0.000
<i>Procurement Cost (Procurement + Support)</i>		1,452.353		204.731		0.000		0.000		0.000		0.000

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Total Installation Cost		13.900		4.500		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>1,466.253</b>		<b>209.231</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
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	55.600
Kit Quantity A-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,696	17.800
ECPs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	20.500
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.500
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.900
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	21.100
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.599
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		136.999
NonRecurring												
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	14.300
Aircraft Integr - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.600
Subtotal NonRecurring		0.000		0.000		0.000		0.000		0.000		19.900
Total, DGNS (AN/ASN-128D) P3I	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3,361	156.899
Embedded GPS Inertial Navigation System (EGI) P3I <sup>(2)</sup>												
A Kits												
Recurring												
Kit Quantity - B-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	186	11.100

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
ECPs	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.900
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.300
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.500
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	8.100
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.737
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>30.637</i>
NonRecurring												
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.800
Aircrft Integr - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.800
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>7.600</i>
<i>Total, Embedded GPS Inertial Navigation System (EGI) P3I</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>186</i>	<i>38.237</i>
Aviation Tactical Communication Systems (ATCS) <sup>(3)</sup>												
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	101.400
Kit Quantity-B-Kit (ARC201D)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,287	37.500
Kit Quantity-B-Kit (IFM)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	863	17.300
Kit Quantity-A-Kit (ARC-231)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	668	45.800
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.200
System Test & Evaluation	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	37.600
Fielding/Training	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.500
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	34.499
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>318.799</i>
NonRecurring												
ECPs - Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	149.516
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>149.516</i>
<i>Total, Aviation Tactical Communication Systems (ATCS)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>3,953</i>	<i>468.315</i>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	13.200
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	2.300
Other - PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		16.500
<i>Total, Joint Tactical Radio System (JTRS)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	16.500
Mil Flight Operation Quality Assurance (MFOQA) <sup>(5)</sup>												
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	4.300
Other-PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	10.300
System Engineering	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	22.400
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		37.000
B Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	6.500
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		6.500
<i>Total, Mil Flight Operation Quality Assurance (MFOQA)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	160	43.500
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	57.100
Kit Quantity - IDM Mods	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	396	10.300
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	240	11.900



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>551.826</i>
NonRecurring												
B-Kit NonRecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	102.100
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>102.100</i>
<i>Total, Improved Data Modem (IDM)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>2,503</i>	<i>653.926</i>
Aviation Mission Planning System (AMPS) <sup>(7)</sup>												
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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>267.407</i>
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000

<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		12.300
<i>Total, Aviation Mission Planning System (AMPS)</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	2,604	279.707
<b>Total, All Modifications</b>		0.000		0.000		0.000		0.000		0.000		1,657.084
<i>Procurement Cost (Procurement + Support)</i>		0.000		0.000		0.000		0.000		0.000		1,657.084
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		18.400
<b>Total Cost (Procurement + Support + Installation)</b>		0.000		0.000		0.000		0.000		0.000		1,675.484

**Remarks:**

(1)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.

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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<sup>(5)</sup>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. MFOQA builds on a commercial aviation initiative which uses operational trend analyses of flight data to better identify hazards, increase operational efficiency and provide more effective risk management. Unit costs vary by aircraft platform.

<sup>(6)</sup>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. 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.

Beginning in FY 2012, Base procurement dollars were realigned to SSN AA0712 Network and Mission Plan.

<sup>(7)</sup>The AMPS is used to automate Aviation mission planning tasks. The AMPS supports tactical command and control, mission planning, and mission management. It interfaces with the AMCS components, which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats. The electronic formats are loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on fleet aircraft. Since the airframes have the responsibility for the data receptacles/busses required to interface with AMPS, there is no installation cost/schedule. AMPS is fielded from the Army through Aviation Company, centered in the Combat Aviation Brigade.

Beginning in FY 2012, Base procurement dollars were realigned to SSN AA0712 Network and Mission Plan.

<b>Manufacturer Information: DGNS (AN/ASN-128D) P3I</b>							
Manufacturer Name: BAE International				Manufacturer Location: Newark, NJ			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Embedded GPS Inertial Navigation System (EGI) P3I</b>							
Manufacturer Name: Honeywell, Inc.				Manufacturer Location: Clearwater, FL			
Administrative Leadtime ( <i>in Months</i> ): 9				Production Leadtime ( <i>in Months</i> ): 7			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Jul 2011						
Delivery Dates	Jan 2012						
<b>Manufacturer Information: Aviation Tactical Communication Systems (ATCS)</b>							
Manufacturer Name: Raytheon, Inc.				Manufacturer Location: Fort Wayne, IN			
Administrative Leadtime ( <i>in Months</i> ): 10				Production Leadtime ( <i>in Months</i> ): 11			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Aug 2011						
Delivery Dates	Jun 2012						

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000	
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS			<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Joint Tactical Radio System (JTRS)</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Manassas, VA			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Mil Flight Operation Quality Assurance (MFOQA)</b>							
Manufacturer Name: AMRDEC Software Engineering Directorate				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Improved Data Modem (IDM)</b>							
Manufacturer Name: Symetrics Industries, LLC				Manufacturer Location: Melbourne, FL			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Aviation Mission Planning System (AMPS)</b>							
Manufacturer Name: AMRDEC Software Engineering Directorate				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> DGNS (AN/ASN-128D) P3I	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,350</b>	<b>10.100</b>	<b>300</b>	<b>2.700</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>1,650</b>	<b>12.800</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> DGNS (AN/ASN-128D) P3I	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	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	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	0	0	0	0	1,650

<b>Installation:</b> Embedded GPS Inertial Navigation System (EGI) P3I	<b>Method of Implementation:</b> Aircraft Platform Funded Installations	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> Airborne Avionics - 0000
<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Embedded GPS Inertial Navigation System (EGI) P3I	<b>Method of Implementation:</b> Aircraft Platform Funded Installations	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Aviation Tactical Communication Systems (ATCS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	34	1.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	44	1.800	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	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		
<b>Modification Nomenclature</b> (Modification Title, Modification Number): Airborne Avionics - 0000		

<b>Installation:</b> Aviation Tactical Communication Systems (ATCS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
Total	34	1.400	44	1.800	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	34	1.400
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	44	1.800
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	78	3.200

Installation Schedule		FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot		
	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	34	11	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Out	8	8	9	9	11	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Joint Tactical Radio System (JTRS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> Airborne Avionics - 0000
<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Joint Tactical Radio System (JTRS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Mil Flight Operation Quality Assurance (MFOQA)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	80	2.400	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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	80	2.400	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	2.400
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		
<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000		

<b>Installation:</b> Mil Flight Operation Quality Assurance (MFOQA)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	80	2.400

Installation Schedule																																				
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot					
		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	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	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	0	0	0	0	0	80

<b>Installation:</b> Improved Data Modem (IDM)	<b>Method of Implementation:</b> Aircraft Platform Production Facility	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Airborne Avionics - 0000
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Improved Data Modem (IDM)		<b>Method of Implementation:</b> Aircraft Platform Production Facility						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
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	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Aviation Mission Planning System (AMPS)		<b>Method of Implementation:</b> Not Applicable						<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>		
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0700 - Airborne Avionics
<b>Models of Systems Affected:</b> CH-47D/ F,UH-60A/L/M/Q,HH-60L/M,AH-64A/D,OH-58D/ F,MH-47G,MH-60M,UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> Airborne Avionics - 0000
<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Aviation Mission Planning System (AMPS)		<b>Method of Implementation:</b> Not Applicable				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
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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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	-	-	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	82.089	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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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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 Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Network and Mission Plan - 0000	P3A		-	-	-	-	-	-	82.089	-	136.432	101.430	-	190.789	-	-	-	101.430	-	190.789
<b>Total Gross/Weapon System Cost</b>					-			-			136.432			190.789			-			190.789

  

		FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Network and Mission Plan - 0000	P3A		322.694	-	182.645	819.318	-	200.733	1,096.305	-	255.439	135.822	-	185.804	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					182.645			200.733			255.439			185.804			-			-

\*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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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft		<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<p>FY 2013 Base procurement dollars in the amount of \$8.813 million supports the procurement of training, fielding and help desk equipment for the ACN. In addition it will support the procurement of the training materials to support schoolhouse training efforts necessary to support the ACN.</p> <p>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.</p> <p>All COMPO 1 Active</p> <p>In accordance with section 1815 of the FY 2008 National Defense Authorization Act P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.</p>		



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Network and Mission Plan - 0000
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

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 ACN and the ADEC as an integrated Family of Systems.

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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan						<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Network and Mission Plan - 0000			
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS			<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<b>Procurement</b>												
Aviation Mission Planning System (AMPS) <sup>(1)</sup>												
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	10.127
ECPs	0	0.000	0	0.000	0	14.893	0	12.950	0	0.000	0	12.950
Systems Engineering	0	0.000	0	0.000	0	1.237	0	1.258	0	0.000	0	1.258
System Test and Eval	0	0.000	0	0.000	0	1.829	0	1.789	0	0.000	0	1.789
Fielding/Training	0	0.000	0	0.000	0	7.086	0	6.965	0	0.000	0	6.965
Other- PM Admin	0	0.000	0	0.000	0	1.596	0	1.363	0	0.000	0	1.363
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>38.228</i>		<i>34.452</i>		<i>0.000</i>		<i>34.452</i>
<i>Total, Aviation Mission Planning System (AMPS)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>1,180</i>	<i>38.228</i>	<i>1,020</i>	<i>34.452</i>	<i>0</i>	<i>0.000</i>	<i>1,020</i>	<i>34.452</i>
Aviation Data Exploitation Capability (ADEC) <sup>(2)</sup>												
B Kits												
Recurring												
Kit Quantity- ADEC Bn Sets	0	0.000	0	0.000	0	0.000	32	11.806	0	0.000	32	11.806
ECP (SW)	0	0.000	0	0.000	0	0.000	0	2.805	0	0.000	0	2.805
Data	0	0.000	0	0.000	0	0.000	0	0.498	0	0.000	0	0.498
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.642	0	0.000	0	0.642
System Test & Eval	0	0.000	0	0.000	0	0.000	0	0.365	0	0.000	0	0.365
Fielding/Training	0	0.000	0	0.000	0	0.000	0	5.330	0	0.000	0	5.330
Other- PM Admin	0	0.000	0	0.000	0	0.000	0	0.830	0	0.000	0	0.830
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>22.276</i>		<i>0.000</i>		<i>22.276</i>
<i>Total, Aviation Data Exploitation Capability (ADEC)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>32</i>	<i>22.276</i>	<i>0</i>	<i>0.000</i>	<i>32</i>	<i>22.276</i>
Improved Data Modem (IDM) <sup>(3)</sup>												
B Kits												
Recurring												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Kit Quantity- IDM	0	0.000	0	0.000	412	9.776	320	7.719	0	0.000	320	7.719
Kit Quantity- IDM OSA	0	0.000	0	0.000	70	1.890	509	13.963	0	0.000	509	13.963
Aircraft Integration	0	0.000	0	0.000	0	65.457	0	75.199	0	0.000	0	75.199
ECP (SW)	0	0.000	0	0.000	0	8.876	0	6.894	0	0.000	0	6.894
Systems Engineering	0	0.000	0	0.000	0	1.921	0	2.306	0	0.000	0	2.306
System Test & Eval	0	0.000	0	0.000	0	5.782	0	5.905	0	0.000	0	5.905
Fielding/Training	0	0.000	0	0.000	0	0.517	0	0.532	0	0.000	0	0.532
Other- PM Admin	0	0.000	0	0.000	0	2.740	0	2.730	0	0.000	0	2.730
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>96.959</i>		<i>115.248</i>		<i>0.000</i>		<i>115.248</i>
<i>Total, Improved Data Modem (IDM)</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>482</i>	<i>96.959</i>	<i>829</i>	<i>115.248</i>	<i>0</i>	<i>0.000</i>	<i>829</i>	<i>115.248</i>
Apache Interoperability <sup>(4)</sup>												
B Kits												
Recurring												
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Other- PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, Apache Interoperability</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>
Aircraft Notebook (ACN) <sup>(5)</sup>												
B Kits												
Recurring												
ECP (SW)	0	0.000	0	0.000	0	0.000	0	2.675	0	0.000	0	2.675
Data	0	0.000	0	0.000	0	0.000	0	0.236	0	0.000	0	0.236
Systems Engineering	0	0.000	0	0.000	0	0.000	0	0.755	0	0.000	0	0.755
System Test	0	0.000	0	0.000	0	0.000	0	0.241	0	0.000	0	0.241
Fielding/Training	0	0.000	0	0.000	0	1.208	0	4.406	0	0.000	0	4.406
Other- PM Admin	0	0.000	0	0.000	0	0.037	0	0.500	0	0.000	0	0.500
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>1.245</i>		<i>8.813</i>		<i>0.000</i>		<i>8.813</i>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000			
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS			<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Total, Aircraft Notebook (ACN)</i>	0	0.000	0	0.000	0	1.245	0	8.813	0	0.000	0	8.813
Helicopter Terrain Avoidance and Warning System <sup>(6)</sup>												
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
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Helicopter Terrain Avoidance and Warning System</i>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aviation Logistics Enterprise-Platform (ALE-P) <sup>(7)</sup>												
B Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	10.000	0	0.000	0	10.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		10.000		0.000		10.000
<i>Total, Aviation Logistics Enterprise-Platform (ALE-P)</i>	0	0.000	0	0.000	0	0.000	0	10.000	0	0.000	0	10.000
<i>Total, All Modifications</i>		0.000		0.000		136.432		190.789		0.000		190.789
<i>Procurement Cost (Procurement + Support)</i>		0.000		0.000		136.432		190.789		0.000		190.789
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>0.000</b>		<b>0.000</b>		<b>136.432</b>		<b>190.789</b>		<b>0.000</b>		<b>190.789</b>
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Aviation Mission Planning System (AMPS) <sup>(1)</sup>												
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

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army								<b>Date:</b> February 2012				
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<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS				<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification				<b>Related RDT&amp;E PEs:</b>				
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Systems Engineering	0	1.279	0	1.301	0	1.323	0	1.345	0	0.000	0	7.743
System Test and Eval	0	1.871	0	1.829	0	1.935	0	1.892	0	0.000	0	11.145
Fielding/Training	0	7.064	0	7.196	0	7.596	0	7.803	0	0.000	0	43.710
Other- PM Admin	0	1.289	0	1.301	0	1.218	0	1.701	0	0.000	0	8.468
<i>Subtotal Recurring</i>		23.592		25.660		27.913		37.573		0.000		187.418
<i>Total, Aviation Mission Planning System (AMPS)</i>	0	23.592	30	25.660	30	27.913	1,170	37.573	0	0.000	3,430	187.418
Aviation Data Exploitation Capability (ADEC) <sup>(2)</sup>												
B Kits												
Recurring												
Kit Quantity- ADEC Bn Sets	32	12.007	32	12.211	27	12.419	27	10.662	0	0.000	150	59.105
ECP (SW)	0	5.118	0	5.341	0	8.822	0	7.577	0	0.000	0	29.663
Data	0	0.507	0	0.515	0	0.524	0	0.533	0	0.000	0	2.577
Systems Engineering	0	0.839	0	0.856	0	0.869	0	0.884	0	0.000	0	4.090
System Test & Eval	0	0.275	0	0.279	0	0.284	0	0.289	0	0.000	0	1.492
Fielding/Training	0	5.140	0	5.227	0	5.316	0	3.307	0	0.000	0	24.320
Other- PM Admin	0	0.907	0	1.057	0	1.023	0	1.093	0	0.000	0	4.910
<i>Subtotal Recurring</i>		24.793		25.486		29.257		24.345		0.000		126.157
<i>Total, Aviation Data Exploitation Capability (ADEC)</i>	32	24.793	32	25.486	27	29.257	27	24.345	0	0.000	150	126.157
Improved Data Modem (IDM) <sup>(3)</sup>												
B Kits												
Recurring												
Kit Quantity- IDM	146	4.129	0	0.000	0	0.000	0	0.000	0	0.000	878	21.624
Kit Quantity- IDM OSA	388	10.825	183	5.192	171	4.934	171	5.018	0	0.000	1,492	41.822
Aircraft Integration	0	75.218	0	67.449	0	78.233	0	65.340	0	0.000	0	426.896
ECP (SW)	0	7.003	0	10.681	0	44.930	0	11.047	0	0.000	0	89.431
Systems Engineering	0	2.540	0	2.615	0	2.692	0	2.772	0	0.000	0	14.846
System Test & Eval	0	6.035	0	6.167	0	6.303	0	6.441	0	0.000	0	36.633

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army									<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000			
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS			<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		109.132		95.497		140.743		94.183		0.000		651.762
<i>Total, Improved Data Modem (IDM)</i>	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
<i>Subtotal Recurring</i>		5.110		11.223		9.855		0.000		0.000		26.188
<i>Total, Apache Interoperability</i>	0	5.110	0	11.223	0	9.855	0	0.000	0	0.000	0	26.188
Aircraft Notebook (ACN) <sup>(5)</sup>												
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
<i>Subtotal Recurring</i>		8.804		7.639		6.459		7.140		0.000		40.100
<i>Total, Aircraft Notebook (ACN)</i>	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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Subtotal Recurring</i>		0.000		24.533		28.710		12.000		0.000		65.243
<i>Total, Helicopter Terrain Avoidance and Warning System</i>	0	0.000	0	24.533	0	28.710	0	12.000	0	0.000	0	65.243
Aviation Logistics Enterprise-Platform (ALE-P) <sup>(7)</sup>												
B Kits												
Recurring												
Equipment	0	11.214	0	10.695	0	12.502	0	10.563	0	0.000	0	54.974
<i>Subtotal Recurring</i>		11.214		10.695		12.502		10.563		0.000		54.974
<i>Total, Aviation Logistics Enterprise-Platform (ALE-P)</i>	0	11.214	0	10.695	0	12.502	0	10.563	0	0.000	0	54.974
<i>Total, All Modifications</i>		182.645		200.733		255.439		185.804		0.000		1,151.842
<i>Procurement Cost (Procurement + Support)</i>		182.645		200.733		255.439		185.804		0.000		1,151.842
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		182.645		200.733		255.439		185.804		0.000		1,151.842

**Remarks:**

<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.

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.

<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.

FY 2013 Base procurement dollars in the amount of \$22.276 million supports the procurement of ADEC hardware systems for Army rotary wing units.

<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.

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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<sup>(4)</sup>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. Apace Interoperability consists of software modifications, therefore no installation is required.

<sup>(5)</sup>The ACN will provide the digital logbook function to perform aviation maintenance efforts at the aircraft by providing a common solution for all manned aviation platforms. Procurement is to support training and fielding efforts.

FY 2013 Base procurement dollars in the amount of \$8.813 million supports the procurement of training, fielding and help desk equipment for the ACN. In addition it will support the procurement of the training materials to support schoolhouse training efforts necessary to support the ACN.

<sup>(6)</sup>The HTAWS will integrate and test technology to reduce the risks of Degraded Visual Environment (DVE) resulting in Controlled Flight into Terrain. The software integration supports production line programs for the CH-47F, AH-64D, OH-58D, and UH-60 modernized aircraft, and as a result, there are no installation costs.

<sup>(7)</sup>ALE-P will replace the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) which has transitioned into sustainment and the Unmanned Aviation Systems-Initiative (UAS-I) which currently only provides automated logistics capabilities for the UAS community. ALE-P will provide an Aviation enterprise capability interface to the Global Combat Support System-Army (GCSS-Army). ALE-P will be a combination of software and hardware that forms a Decision Support System (DSS) which receives, processes, analyzes, and transmits data from Quality Control, Production Control, Tech Supply, Backshop, and Phase Module activities. ALE-P will interface with the ACN and the ADEC as an integrated Family of Systems. There is no installation of ALE-P because it consists of loading software on a server which is done by training/fielding teams.

FY 2013 Base procurement dollars in the amount of \$10.00 million supports the procurement, training and installation of ALE-P systems for Army aircraft.

**Manufacturer Information: Aviation Mission Planning System (AMPS)**

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
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Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Manufacturer Information: Aviation Data Exploitation Capability (ADEC)**

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
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Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Manufacturer Information: Improved Data Modem (IDM)**

Manufacturer Name: Symetrics Industries, LLC	Manufacturer Location: Melbourne, FL
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Administrative Leadtime ( <i>in Months</i> ):	Production Leadtime ( <i>in Months</i> ):
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Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan			<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Network and Mission Plan - 0000	
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS			<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: Improved Data Modem (IDM)</b>							
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Delivery Dates							
<b>Manufacturer Information: Apache Interoperability</b>							
Manufacturer Name: AMRDEC Software Engineering Directorate				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime <i>(in Months)</i> :				Production Leadtime <i>(in Months)</i> :			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Aircraft Notebook (ACN)</b>							
Manufacturer Name: AMRDEC Software Engineering Directorate				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime <i>(in Months)</i> :				Production Leadtime <i>(in Months)</i> :			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Helicopter Terrain Avoidance and Warning System</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime <i>(in Months)</i> :				Production Leadtime <i>(in Months)</i> :			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Aviation Logistics Enterprise-Platform (ALE-P)</b>							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime <i>(in Months)</i> :				Production Leadtime <i>(in Months)</i> :			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Network and Mission Plan - 0000
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Aviation Mission Planning System (AMPS)		<b>Method of Implementation:</b> Not Applicable				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
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>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Aviation Mission Planning System (AMPS)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0

<b>Installation:</b> Aviation Data Exploitation Capability (ADEC)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		

<b>Installation:</b> Aviation Data Exploitation Capability (ADEC)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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 2016				FY 2017				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Improved Data Modem (IDM)	<b>Method of Implementation:</b> Aircraft Platform Production Facility	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		

<b>Installation:</b> Improved Data Modem (IDM)	<b>Method of Implementation:</b> Aircraft Platform Production Facility	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Apache Interoperability	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		

<b>Installation:</b> Apache Interoperability	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> Aircraft Notebook (ACN)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Aircraft Notebook (ACN)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000

<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Aircraft Notebook (ACN)	<b>Method of Implementation:</b> Not Applicable	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0

<b>Installation:</b> Helicopter Terrain Avoidance and Warning System	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Network and Mission Plan - 0000
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Helicopter Terrain Avoidance and Warning System	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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 2016				FY 2017				TC	Tot
	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	-	0	0	0	0	0	0	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

<b>Installation:</b> Aviation Logistics Enterprise-Platform (ALE-P)	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0712 - Network And Mission Plan
<b>Models of Systems Affected:</b> AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, UAS		<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification
<b>Related RDT&amp;E PEs:</b>		

<b>Installation:</b> Aviation Logistics Enterprise-Platform (ALE-P)	<b>Method of Implementation:</b> TBD	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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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)	-	-	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

	Secondary 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

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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Secondary Distribution		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army National Guard	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.298	-	7.298	3.704	7.181	7.715	8.641
Army Reserve	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	1.963	1.963	0.986

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Communications, Navigation, and Surveillance - 0000	P3A		-	-	-	-	-	-	-	-	117.855	-	-	133.191	-	-	-	-	-	133.191
<b>Total Gross/Weapon System Cost</b>											<b>117.855</b>			<b>133.191</b>						<b>133.191</b>

Item Schedule		FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Communications, Navigation, and Surveillance - 0000	P3A		-	-	176.492	-	-	216.082	-	-	192.600	-	-	174.806	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>176.492</b>			<b>216.082</b>			<b>192.600</b>			<b>174.806</b>						

\*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 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	117.855	133.191	-	133.191	176.492	216.082	192.600	174.806	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ 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 (WNNW), 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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Communications, Navigation, and Surveillance - 0000
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
<p>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.</p> <p>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.</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M)
<b>Procurement</b>												
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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>13.200</i>		<i>14.512</i>		<i>0.000</i>		<i>14.512</i>
B Kits												
NonRecurring												
B-Kit, Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>
<i>Total, DGNS (AN/ASN-128D) P3I</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>13.200</i>	<i>0</i>	<i>14.512</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>14.512</i>
Embedded GPS Inertial Navigation System (EGI) P3I <sup>(2)</sup>												
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
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>3.401</i>		<i>3.401</i>		<i>0.000</i>		<i>3.401</i>
B Kits												
Recurring												



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Kit Quantity - B-Kit	0	0.000	0	0.000	5	0.400	15	1.600	0	0.000	15	1.600
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Embedded GPS Inertial Navigation System (EGI) P3I</i>	0	0.000	0	0.000	5	3.801	15	5.001	0	0.000	15	5.001
Aviation Tactical Communication Systems <sup>(3)</sup>												
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
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		0.000		0.000		47.300		22.000		0.000		22.000
<i>Total, Aviation Tactical Communication Systems</i>	0	0.000	0	0.000	965	84.500	427	63.200	0	0.000	427	63.200
Joint Tactical Radio Systems (JTRS) <sup>(4)</sup>												

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M)
A Kits												
Recurring												
Kit Quantity - A-Kit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Aircraft Integration	0	0.000	0	0.000	0	13.300	0	44.750	0	0.000	0	44.750
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
System Test and Evaluation	0	0.000	0	0.000	0	2.000	0	2.000	0	0.000	0	2.000
<i>Subtotal Recurring</i>		0.000		0.000		15.300		46.750		0.000		46.750
<i>Total, Joint Tactical Radio Systems (JTRS)</i>	0	0.000	0	0.000	0	15.300	0	46.750	0	0.000	0	46.750
<i>Total, All Modifications</i>		0.000		0.000		116.801		129.463		0.000		129.463
<i>Procurement Cost (Procurement + Support)</i>		0.000		0.000		116.801		129.463		0.000		129.463
<i>Total Installation Cost</i>		0.000		0.000		1.054		3.728		0.000		3.728
<b>Total Cost (Procurement + Support + Installation)</b>		<b>0.000</b>		<b>0.000</b>		<b>117.855</b>		<b>133.191</b>		<b>0.000</b>		<b>133.191</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Procurement</b>												
DGNS (AN/ASN-128D) P31 <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
<i>Subtotal Recurring</i>		12.750		12.444		18.941		12.912		0.000		84.759

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
B Kits												
NonRecurring												
B-Kit, Nonrecurring	0	3.900	0	0.000	0	0.000	0	0.000	0	0.000	0	3.900
<i>Subtotal NonRecurring</i>		3.900		0.000		0.000		0.000		0.000		3.900
<i>Total, DGNS (AN/ASN-128D) P3I</i>	0	16.650	0	12.444	0	18.941	0	12.912	0	0.000	0	88.659
Embedded GPS Inertial Navigation System (EGI) P3I <sup>(2)</sup>												
A Kits												
Recurring												
Engineering Change Orders	0	1.000	0	0.300	0	0.200	0	0.200	0	0.000	0	3.200
Data	0	0.100	0	0.169	0	0.200	0	0.202	0	0.000	0	0.873
Training Equipment	0	0.213	0	0.200	0	0.200	0	0.200	0	0.000	0	1.013
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
<i>Subtotal Recurring</i>		3.913		3.269		3.200		3.202		0.000		20.386
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
<i>Subtotal Recurring</i>		3.200		7.100		8.500		8.500		0.000		29.300
NonRecurring												
B-Kit Nonrecurring	0	0.000	0	6.000	0	0.000	0	0.000	0	0.000	0	6.000
<i>Subtotal NonRecurring</i>		0.000		6.000		0.000		0.000		0.000		6.000
<i>Total, Embedded GPS Inertial Navigation System (EGI) P3I</i>	30	7.113	67	16.369	79	11.700	79	11.702	0	0.000	275	55.686
Aviation Tactical Communication Systems <sup>(3)</sup>												
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Systems Engineering	0	3.500	0	3.500	0	3.700	0	3.700	0	0.000	0	21.100
System Test & Evaluation	0	2.100	0	2.200	0	0.000	0	0.000	0	0.000	0	8.300
Fielding/Training	0	5.500	0	2.600	0	3.700	0	3.700	0	0.000	0	24.500
Other - PM Admin SEPM and IOB	0	3.900	0	2.900	0	2.600	0	5.300	0	0.000	0	21.800
<i>Subtotal Recurring</i>		<i>27.400</i>		<i>17.800</i>		<i>16.700</i>		<i>12.700</i>		<i>0.000</i>		<i>111.000</i>
NonRecurring												
ECPs - Nonrecurring	0	26.600	0	26.400	0	22.300	0	29.800	0	0.000	0	147.100
<i>Subtotal NonRecurring</i>		<i>26.600</i>		<i>26.400</i>		<i>22.300</i>		<i>29.800</i>		<i>0.000</i>		<i>147.100</i>
B Kits												
Recurring												
Kit Quantity-B-Kit (ARC-231)	284	27.700	133	13.500	123	12.800	202	19.600	0	0.000	1,315	125.300
Kit Quantity-B-Kit (ARC201D)	188	6.000	106	3.500	112	3.700	167	5.500	0	0.000	923	29.600
Kit Quantity-B-Kit (IFM)	188	3.700	106	2.200	112	2.300	167	3.500	0	0.000	923	18.400
<i>Subtotal Recurring</i>		<i>37.400</i>		<i>19.200</i>		<i>18.800</i>		<i>28.600</i>		<i>0.000</i>		<i>173.300</i>
<i>Total, Aviation Tactical Communication Systems</i>	<i>706</i>	<i>91.400</i>	<i>369</i>	<i>63.400</i>	<i>371</i>	<i>57.800</i>	<i>536</i>	<i>71.100</i>	<i>0</i>	<i>0.000</i>	<i>3,374</i>	<i>431.400</i>
Joint Tactical Radio Systems (JTRS) <sup>(4)</sup>												
A Kits												
Recurring												
Kit Quantity - A-Kit	0	0.000	351	60.715	420	72.700	340	42.600	0	0.000	1,111	176.015
Aircraft Integration	0	52.690	0	19.400	0	0.400	0	0.000	0	0.000	0	130.540
Engineering Change Orders	0	0.000	0	5.100	0	0.000	0	0.000	0	0.000	0	5.100
Training Equipment	0	0.000	0	14.600	0	2.000	0	2.000	0	0.000	0	18.600
System Test and Evaluation	0	3.000	0	4.900	0	3.100	0	3.100	0	0.000	0	18.100
<i>Subtotal Recurring</i>		<i>55.690</i>		<i>104.715</i>		<i>78.200</i>		<i>47.700</i>		<i>0.000</i>		<i>348.355</i>
<i>Total, Joint Tactical Radio Systems (JTRS)</i>	<i>0</i>	<i>55.690</i>	<i>351</i>	<i>104.715</i>	<i>420</i>	<i>78.200</i>	<i>340</i>	<i>47.700</i>	<i>0</i>	<i>0.000</i>	<i>1,111</i>	<i>348.355</i>
<b>Total, All Modifications</b>		<b>170.853</b>		<b>196.928</b>		<b>166.641</b>		<b>143.414</b>		<b>0.000</b>		<b>924.100</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Procurement Cost (Procurement + Support)</i>		170.853		196.928		166.641		143.414		0.000		924.100
<i>Total Installation Cost</i>		5.639		19.154		25.959		31.392		17.100		104.026
<b>Total Cost (Procurement + Support + Installation)</b>		<b>176.492</b>		<b>216.082</b>		<b>192.600</b>		<b>174.806</b>		<b>17.100</b>		<b>1,028.126</b>

**Remarks:**

(1)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.

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.

(2)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.

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.

(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 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).

(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 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.

<b>Manufacturer Information: DGNS (AN/ASN-128D) P3I</b>	
Manufacturer Name: BAE International Incorporated	Manufacturer Location: Newark, NJ
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000	
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS			<b>Type Modification:</b> New or Improved Operational Capability			<b>Related RDT&amp;E PEs:</b>	
<b>Manufacturer Information: DGNS (AN/ASN-128D) P3I</b>							
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Embedded GPS Inertial Navigation System (EGI) P3I</b>							
Manufacturer Name: Honeywell, Incorporated				Manufacturer Location: Clearwater, FL			
Administrative Leadtime ( <i>in Months</i> ): 9				Production Leadtime ( <i>in Months</i> ): 7			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
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
<b>Manufacturer Information: Aviation Tactical Communication Systems</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 10			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates		Sep 2012	Sep 2013	Sep 2014	Sep 2015	Sep 2016	Sep 2017
<b>Manufacturer Information: Joint Tactical Radio Systems (JTRS)</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Manassas, VA			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 10			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates					Dec 2014	Dec 2015	Dec 2016
Delivery Dates					Sep 2015	Sep 2016	Sep 2017

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> DGNS (AN/ASN-128D) P3I	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>46</b>	<b>0.295</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>46</b>	<b>0.295</b>

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS		<b>Type Modification:</b> New or Improved Operational Capability
<b>Related RDT&amp;E PEs:</b>		
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Communications, Navigation, and Surveillance - 0000		

<b>Installation:</b> DGNS (AN/ASN-128D) P3I	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot	
		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	-	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	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	0	46

<b>Installation:</b> Embedded GPS Inertial Navigation System (EGI) P3I	<b>Method of Implementation:</b> Aircraft Platform Funded Installation	<b>Installation Name:</b>
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	Qty (Each)	Total Cost (\$ M)	Qty (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



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS		<b>Type Modification:</b> New or Improved Operational Capability
<b>Related RDT&amp;E PEs:</b>		
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Communications, Navigation, and Surveillance - 0000		

<b>Installation:</b> Embedded GPS Inertial Navigation System (EGI) P3I	<b>Method of Implementation:</b> Aircraft Platform Funded Installation	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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**

APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
	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	-	0	0	0	0	0	0	0	0	0	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	0	0	0

<b>Installation:</b> Aviation Tactical Communication Systems	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	19	0.759	15	0.628	0	0.000	15	0.628
FY 2012	0	0.000	0	0.000	0	0.000	78	3.100	0	0.000	78	3.100
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000

<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> Aviation Tactical Communication Systems	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
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	19	0.759	93	3.728	0	0.000	93	3.728

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	34	1.387
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	78	3.100
FY 2013	41	5.639	0	0.000	0	0.000	0	0.000	0	0.000	41	5.639
FY 2014	0	0.000	46	19.154	0	0.000	0	0.000	0	0.000	46	19.154
FY 2015	0	0.000	0	0.000	24	8.941	0	0.000	0	0.000	24	8.941
FY 2016	0	0.000	0	0.000	0	0.000	24	9.600	0	0.000	24	9.600
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	41	5.639	46	19.154	24	8.941	24	9.600	0	0.000	247	47.821

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	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	247
Out	-	0	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	247

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS		<b>Type Modification:</b> New or Improved Operational Capability
<b>Related RDT&amp;E PEs:</b>		
<b>Modification Nomenclature (Modification Title, Modification Number):</b> Communications, Navigation, and Surveillance - 0000		

<b>Installation:</b> Joint Tactical Radio Systems (JTRS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0723 - Comms, Nav Surveillance	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Communications, Navigation, and Surveillance - 0000
<b>Models of Systems Affected:</b> UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH-72A, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Joint Tactical Radio Systems (JTRS)	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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<b>Installation Schedule</b>																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	-	0	0	0	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	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	0	0	0	0	51	100	100	100	120	100	100	440	1,111

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 :  
Modification Of Aircraft

**P-1 Line Item Nomenclature:**  
AA0711 - GATM Rollup

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.

Secondary 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
Army National Guard	Quantity	-	-	-	-	-	-	-	-	-
	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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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

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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 2 : Modification of Aircraft / BSA 10 :  
 Modification Of Aircraft

**P-1 Line Item Nomenclature:**  
 AA0711 - GATM Rollup

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Total Gross/Weapon System Cost</b>					489.069			97.591			105.519			87.280			-			87.280
		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
GATM - Fixed Wing Aircraft - 0000	P3A		-	-	14.572	-	-	12.569	-	-	19.063	-	-	19.065	-	-	0.000	-	-	257.816
GATM Rotary Wing Aircraft - 0000	P3A		-	-	55.541	-	-	45.241	-	-	45.984	-	-	46.728	-	-	0.000	-	-	780.406
<b>Total Gross/Weapon System Cost</b>					70.113			57.810			65.047			65.793			0.000			1,038.222

\*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:**

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM - Fixed Wing Aircraft - 0000

<b>Models of Systems Affected:</b> All series of Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>149.701</b>	<b>11.271</b>	<b>14.396</b>	<b>17.179</b>	<b>-</b>	<b>17.179</b>	<b>14.572</b>	<b>12.569</b>	<b>19.063</b>	<b>19.065</b>	<b>0.000</b>	<b>257.816</b>

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

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

**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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM - Fixed Wing Aircraft - 0000

<b>Models of Systems Affected:</b> All series of Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standarization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
<b>Procurement</b>												
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	11.925
Data	0	0.100	0	0.100	0	0.100	0	0.100	0	0.000	0	0.100
<i>Subtotal Recurring</i>		104.791		7.889		10.077		12.025		0.000		12.025
<i>Total, Global Air Traffic Management - FW</i>	178	104.791	7	7.889	10	10.077	17	12.025	0	0.000	17	12.025
<i>Total, All Modifications</i>		104.791		7.889		10.077		12.025		0.000		12.025
<i>Procurement Cost (Procurement + Support)</i>		104.791		7.889		10.077		12.025		0.000		12.025
<i>Total Installation Cost</i>		44.910		3.382		4.319		5.154		0.000		5.154
<b>Total Cost (Procurement + Support + Installation)</b>		149.701		11.271		14.396		17.179		0.000		17.179

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
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
<i>Subtotal Recurring</i>		10.200		8.798		13.344		13.346		0.000		180.470
<i>Total, Global Air Traffic Management - FW</i>	13	10.200	15	8.798	5	13.344	5	13.346	0	0.000	250	180.470
<i>Total, All Modifications</i>		10.200		8.798		13.344		13.346		0.000		180.470
<i>Procurement Cost (Procurement + Support)</i>		10.200		8.798		13.344		13.346		0.000		180.470
<i>Total Installation Cost</i>		4.372		3.771		5.719		5.719		0.000		77.346
<b>Total Cost (Procurement + Support + Installation)</b>		14.572		12.569		19.063		19.065		0.000		257.816



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM - Fixed Wing Aircraft - 0000
<b>Models of Systems Affected:</b> All series of Army fixed wing aircraft	<b>Type Modification:</b> Rationalization, Standarization, Interoperability, Compatibility, Simplification	<b>Related RDT&amp;E PEs:</b>

**Remarks:**  
<sup>(1)</sup>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.

<b>Manufacturer Information: Global Air Traffic Management - FW</b>							
Manufacturer Name: Multiple Commercial Lenders				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 6			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
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

<b>Installation:</b> Global Air Traffic Management - FW			<b>Method of Implementation:</b> Contractor				<b>Installation Name:</b>					
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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
<b>Total</b>	178	44.910	7	3.382	10	4.319	17	5.154	0	0.000	17	5.154

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> All series of Army fixed wing aircraft		<b>Modification Nomenclature (Modification Title, Modification Number):</b> GATM - Fixed Wing Aircraft - 0000
<b>Type Modification:</b> Rationalization, Standardization, Interoperability, Compatibility, Simplification		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Management - FW	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	13	4.372	15	3.771	5	5.719	5	5.719	0	0.000	250	77.346

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0
Out	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	0	5	0

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> (Modification Title, Modification Number): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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	780.406
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	780.406
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>339.368</b>	<b>86.320</b>	<b>91.123</b>	<b>70.101</b>	<b>-</b>	<b>70.101</b>	<b>55.541</b>	<b>45.241</b>	<b>45.984</b>	<b>46.728</b>	<b>0.000</b>	<b>780.406</b>

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

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

**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, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing and Unmanned Aircraft System (UAS) fleets. Included in the GATM Program is the European mandated Mode S requirement which is being met with the fielding of the APX-118, an upgrade to the Identification Friend or Foe (IFF) to add Mode 5 capability which will be achieved 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.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> GATM Rotary Wing Aircraft - 0000
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
<p>FY 2013 Base procurement dollars in the amount of \$32.455 million supports the associated Non Recurring Engineering (NRE) integration which will facilitate an enhanced Global Positioning System (GPS) in support of ADS-B for mandated Air Traffic Control (ATC) services for the applicable aviation platforms.</p> <p>FY 2013 Base procurement dollars in the amount of \$10.599 million supports procurement of ARC-231 B-Kits and procurement and installation of ARC-231 A and B Kits on the HH/UH-60 A/L platform.</p> <p>FY 2013 Base procurement dollars in the amount of \$5.800 million supports procurement and installation of ARC-231 maintenance transition doors on the UH-60 A/L platform.</p> <p>All COMPO 1 Active</p>		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup						<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000			
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS				<b>Type Modification:</b> New or Improved Operational Capability				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		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 (\$ M )	
<b>Procurement</b>													
Global Air Traffic Mgmt RW APX-118 <sup>(2)</sup>													
A Kits													
Recurring													
Kit Qty- APX-118 A-Kits	2,048	9.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
Aircraft Integration	0	5.300	0	0.600	0	0.000	0	0.000	0	0.000	0	0.000	
Engineering Change Orders	0	7.100	0	0.100	0	0.000	0	0.000	0	0.000	0	0.000	
Data	0	4.000	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000	
Training Equipment	0	1.900	0	1.500	0	0.000	0	0.000	0	0.000	0	0.000	
Fielding	0	4.500	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000	
Systems Engr/Prog Mgt(SEPM)	0	13.000	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000	
System Test & Eval (ST&E)	0	2.700	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000	
Other- PM Admin	0	13.800	0	0.700	0	0.000	0	0.000	0	0.000	0	0.000	
Other	0	5.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		<i>67.100</i>		<i>5.800</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>	
B Kits													
Recurring													
Kit Qty- APX-118 B-Kits	2,635	113.812	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal Recurring</i>		<i>113.812</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>	
NonRecurring													
B-Kit Nonrecurring	0	6.600	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	
<i>Subtotal NonRecurring</i>		<i>6.600</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>	
<b>Total, Global Air Traffic Mgmt RW APX-118</b>	<b>4,683</b>	<b>187.512</b>	<b>0</b>	<b>5.800</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	
Global Air Traffic Mgmt RW APX-123 <sup>(3)</sup>													
A Kits													
Recurring													

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ 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
<i>Subtotal Recurring</i>		<i>17.200</i>		<i>14.400</i>		<i>0.600</i>		<i>2.200</i>		<i>0.000</i>		<i>2.200</i>
<b>B Kits</b>												
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
<i>Subtotal Recurring</i>		<i>7.000</i>		<i>6.900</i>		<i>7.300</i>		<i>8.212</i>		<i>0.000</i>		<i>8.212</i>
NonRecurring												
B-Kits, Nonrecurring	0	19.400	0	1.200	0	0.400	0	0.800	0	0.000	0	0.800
<i>Subtotal NonRecurring</i>		<i>19.400</i>		<i>1.200</i>		<i>0.400</i>		<i>0.800</i>		<i>0.000</i>		<i>0.800</i>
<b>Total, Global Air Traffic Mgmt RW APX-123</b>	<b>510</b>	<b>43.600</b>	<b>170</b>	<b>22.500</b>	<b>217</b>	<b>8.300</b>	<b>456</b>	<b>11.212</b>	<b>0</b>	<b>0.000</b>	<b>456</b>	<b>11.212</b>
Global Air Traffic Mgmt RW APX-118 Upgrade Kits <sup>(4)</sup>												
<b>A Kits</b>												
Recurring												
Kit Qty- Upgrade A-Kits	32	0.100	240	1.211	250	1.323	250	1.335	0	0.000	250	1.335
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
<i>Subtotal Recurring</i>		<i>3.400</i>		<i>3.611</i>		<i>2.023</i>		<i>2.135</i>		<i>0.000</i>		<i>2.135</i>
<b>B Kits</b>												
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
<i>Subtotal Recurring</i>		<i>9.300</i>		<i>6.700</i>		<i>6.300</i>		<i>5.900</i>		<i>0.000</i>		<i>5.900</i>
NonRecurring												
B-Kits Nonrecurring	0	0.900	0	0.300	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Subtotal NonRecurring</i>		0.900		0.300		0.000		0.000		0.000		0.000
<i>Total, Global Air Traffic Mgmt RW APX-118 Upgrade Kits</i>	1,092	13.600	800	10.611	772	8.323	739	8.035	0	0.000	739	8.035
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	0.000
Engineering Change Orders	0	0.000	0	0.000	0	1.100	0	2.054	0	0.000	0	2.054
Data	0	0.000	0	0.000	0	0.800	0	0.800	0	0.000	0	0.800
Training Equipment	0	0.000	0	0.000	0	2.100	0	2.200	0	0.000	0	2.200
Fielding	0	0.000	0	0.000	0	0.400	0	0.400	0	0.000	0	0.400
System Eng/Prog Mgt (SEPM)	0	0.000	0	0.000	0	2.200	0	2.200	0	0.000	0	2.200
System Test & Eval (ST&E)	0	0.000	0	0.000	0	0.200	0	0.200	0	0.000	0	0.200
Other- PM Admin	0	0.000	0	0.000	0	2.300	0	2.300	0	0.000	0	2.300
<i>Subtotal Recurring</i>		0.000		0.000		9.100		10.154		0.000		10.154
NonRecurring												
Non-Recurring Engineering	0	0.000	0	0.000	0	24.700	0	22.301	0	0.000	0	22.301
<i>Subtotal NonRecurring</i>		0.000		0.000		24.700		22.301		0.000		22.301
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	0.000
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		0.000
<i>Total, Global Air Traffic Mgmt RW ADS B Out</i>	0	0.000	0	0.000	0	33.800	0	32.455	0	0.000	0	32.455
Global Air Traffic Mgmt RW ARC-231 <sup>(6)</sup>												
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	2.500

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
Testing	0	0.000	0	0.800	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		54.000		0.000		6.300		5.700		0.000		5.700
<i>Total, Global Air Traffic Mgmt RW ARC-231</i>	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 <sup>(7)</sup>												
A Kits												
NonRecurring												
Equipment, Nonrecurring	0	5.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		11.700		8.200		2.500		2.600		0.000		2.600
<i>Total, Global Air Traffic Mgmt RW Transition Doors</i>	220	16.700	199	8.200	52	2.500	47	2.600	0	0.000	47	2.600
<b>Total, All Modifications</b>		329.912		66.711		61.823		62.502		0.000		62.502
<i>Procurement Cost (Procurement + Support)</i>		329.912		66.711		61.823		62.502		0.000		62.502
<i>Total Installation Cost</i>		9.456		19.609		29.300		7.599		0.000		7.599
<b>Total Cost (Procurement + Support + Installation)</b>		339.368		86.320		91.123		70.101		0.000		70.101



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10					<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000			
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS					<b>Type Modification:</b> New or Improved Operational Capability					<b>Related RDT&amp;E PEs:</b>			
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Global Air Traffic Mgmt RW APX-118 <sup>(2)</sup>													
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	9.200	
Aircraft Integration	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.900	
Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	7.200	
Data	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	4.800	
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.400	
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.300	
Systems Engr/Prog Mgt(SEPM)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	13.500	
System Test & Eval (ST&E)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	3.500	
Other- PM Admin	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	14.500	
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.600	
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>72.900</i>	
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	113.812	
<i>Subtotal Recurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>113.812</i>	
NonRecurring													
B-Kit Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.600	
<i>Subtotal NonRecurring</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>0.000</i>		<i>6.600</i>	
<i>Total, Global Air Traffic Mgmt RW APX-118</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>0</i>	<i>0.000</i>	<i>4,683</i>	<i>193.312</i>	
Global Air Traffic Mgmt RW APX-123 <sup>(3)</sup>													
A Kits													
Recurring													

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Kit Quantity - APX-123 A-Kits	125	0.600	110	0.600	0	0.000	0	0.000	0	0.000	492	2.400
AirCrf 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
<i>Subtotal Recurring</i>		1.400		1.400		0.000		0.000		0.000		37.200
<b>B Kits</b>												
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
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		21.800
<b>Total, Global Air Traffic Mgmt RW APX-123</b>	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>												
<b>A Kits</b>												
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
<i>Subtotal Recurring</i>		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
<i>Subtotal Recurring</i>		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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		1.200
<i>Total, Global Air Traffic Mgmt RW APX-118 Upgrade Kits</i>	751	6.041	190	1.600	0	0.000	0	0.000	0	0.000	4,344	48.210
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	36.100
Engineering Change Orders	0	0.700	0	0.700	0	0.700	0	0.700	0	0.000	0	5.954
Data	0	0.700	0	0.700	0	0.700	0	0.700	0	0.000	0	4.400
Training Equipment	0	0.700	0	0.900	0	1.400	0	1.700	0	0.000	0	9.000
Fielding	0	0.200	0	0.200	0	1.100	0	1.100	0	0.000	0	3.400
System Eng/Prog Mgt (SEPM)	0	2.200	0	2.200	0	3.300	0	3.900	0	0.000	0	16.000
System Test & Eval (ST&E)	0	0.200	0	0.200	0	1.100	0	0.100	0	0.000	0	2.000
Other- PM Admin	0	2.000	0	2.100	0	3.100	0	3.300	0	0.000	0	15.100
<i>Subtotal Recurring</i>		13.700		15.800		21.400		21.800		0.000		91.954
NonRecurring												
Non-Recurring Engineering	0	0.000	0	0.607	0	3.130	0	3.345	0	0.000	0	54.083
<i>Subtotal NonRecurring</i>		0.000		0.607		3.130		3.345		0.000		54.083
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	45.741
<i>Subtotal Recurring</i>		9.500		11.352		12.230		12.659		0.000		45.741
<i>Total, Global Air Traffic Mgmt RW ADS B Out</i>	1,048	23.200	1,200	27.759	1,174	36.760	1,172	37.804	0	0.000	4,594	191.778
Global Air Traffic Mgmt RW ARC-231 <sup>(6)</sup>												
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	28.800

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
Testing	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.800
<i>Subtotal Recurring</i>		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
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		5.700		0.000		2.700		0.000		0.000		74.400
<i>Total, Global Air Traffic Mgmt RW ARC-231</i>	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 <sup>(7)</sup>												
A Kits												
NonRecurring												
Equipment, Nonrecurring	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	5.000
<i>Subtotal NonRecurring</i>		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
<i>Subtotal Recurring</i>		2.500		0.000		1.200		0.000		0.000		28.700
<i>Total, Global Air Traffic Mgmt RW Transition Doors</i>	47	2.500	0	0.000	22	1.200	0	0.000	0	0.000	587	33.700
<b>Total, All Modifications</b>		48.241		38.159		42.360		37.804		0.000		687.512
<i>Procurement Cost (Procurement + Support)</i>		48.241		38.159		42.360		37.804		0.000		687.512
<i>Total Installation Cost</i>		7.300		7.082		3.624		8.924		0.000		92.894
<b>Total Cost (Procurement + Support + Installation)</b>		55.541		45.241		45.984		46.728		0.000		780.406

Remarks:

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
<p><sup>(2)</sup>The APX-118 is a replacement for the APX-100 and provides all transponder capabilities of Mode 1, 2, 3/A, 4 and C. Additionally, the transponder will provide Mode S Level 2 capability. Mode S provides a unique address for selective interrogations which provide surveillance benefits, improving aircraft identification. The APX-118 is currently being fielded to address the GATM Mode S requirement. Fielding is scheduled to continue thru 2012. Europe currently mandates Mode S for all aircraft operations. FY 2012 funding completed the final installations of the APX-118 onto all applicable aircraft platforms. AME funded 1,783 APX-118 A-Kits installations onto Army Aviation platforms, the remaining 265 A-Kits were procured to satisfy Initial Spares and training requirements.</p> <p><sup>(3)</sup>The APX-123 is an upgrade to the APX-118 and provides Mode 5 Level 2 capability. Mode 5 presents an improvement to the aging Mode 4 Identification, Friend, or Foe (IFF) System. Mode 5 uses modern modulation, coding, and cryptographic techniques to overcome performance and security problems. It also improves compatibility with civil Air Traffic Control (ATC) by providing less interference. Procurement of A-Kits reflects requirements for the Unmanned Aircraft Systems (UAS) Shadow and the HH60A&amp;L. The other aircraft platforms fund the procurement and installation of their B-Kits since they are installed on the production line. Installation of 32 HH60A&amp;L A-Kits were paid for by the aircraft platform.</p> <p>FY 2013 Base procurement dollars in the amount of \$11.212 million supports procurement of APX-123 B-Kits, as well as procurement of Reduced Form Factor APX-123 A and B Kits, for the Unmanned Aircraft Systems (UAS) Shadow providing enhanced IFF Mode 5 capabilities</p> <p><sup>(4)</sup>The APX-118 was designed to allow it to be upgraded to provide IFF Mode 5 capabilities. The Mode 5 upgrade kit is used to convert an APX-118 to an APX-123. Tobyhanna Army Depot (TYAD) will accomplish this upgrade effort. All APX-118s will be upgraded to an APX-123. The upgrade kit consists of a new cryptographic circuit card assembly which provides both IFF Mode 4 and Mode 5 capabilities and enhanced security provisions to the transponder. PM AME is procuring 357 kits for production and training equipment installs in which the product office will not fund these installations.</p> <p>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.</p> <p><sup>(5)</sup>Automatic Dependent Surveillance Broadcast (ADS B) Out is a Preplanned Product Improvement (P3I) to the APX-123. ADS B Out broadcasts information about an aircraft through an onboard transmitter to a ground receiver. Use of ADS B Out will move air traffic control from a radar based system to a satellite-derived aircraft location system. The Federal Aviation Administration (FAA) published their rulemaking decision which mandates ADS B equipage by 2020 for all aircraft operations in the National Airspace. AME will fund 1,472 ADS B Out kit installations onto Army Aviation platforms and the remaining 825 kits are being procured to meet initial spares and training requirements.</p> <p>FY 2013 Base procurement dollars in the amount of \$32.455 million supports the associated Non Recurring Engineering (NRE) integration which will facilitate an enhanced Global Positioning System (GPS) in support of ADS B for mandated Air Traffic Control (ATC) services for the applicable aviation platforms.</p> <p><sup>(6)</sup>Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management programs. The ARC-231 Radio provides the aircraft with the 8.33kHz channel spacing meeting the mandated requirement for aircraft in Europe. Current delays to the program reflect the extended timeline required to validate and verify the Airworthiness Release (AWR) and the Modification Work Order (MWO) for the installations.</p> <p>FY 2013 Base procurement dollars in the amount of \$10.599 million supports procurement of ARC-231 B-Kits and procurement and installation of ARC-231 A and B Kits on the HH&amp;UH60A&amp;L platform.</p> <p><sup>(7)</sup>Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management programs. The procurement and installation of the ARC-231 maintenance transition doors on the UH60A&amp;L platform facilitates easier access to the equipment and brings about a reduction in maintenance time and returning the aircraft to full mission capable status sooner. Current delays to the program reflect the extended timeline required to validate and verify the Airworthiness Release (AWR) and the Modification Work Order (MWO) for the installations.</p> <p>FY 2013 Base procurement dollars in the amount of \$5.800 million supports the procurement and installation of ARC-231 maintenance transition doors onto the UH60A&amp;L platforms.</p>		
<b>Manufacturer Information: Global Air Traffic Mgmt RW APX-118</b>		
Manufacturer Name: BAE Systems, Incorporated		Manufacturer Location: Greenlawn, NY

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army						<b>Date:</b> February 2012	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup			<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000	
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS			<b>Type Modification:</b> New or Improved Operational Capability		<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: Global Air Traffic Mgmt RW APX-118</b>							
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 3			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: Global Air Traffic Mgmt RW APX-123</b>							
Manufacturer Name: BAE Systems, Incorporated				Manufacturer Location: Greenlawn, NY			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 15			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates			Feb 2014	Feb 2015	Feb 2016	Feb 2017	Feb 2018
<b>Manufacturer Information: Global Air Traffic Mgmt RW APX-118 Upgrade Kits</b>							
Manufacturer Name: BAE Systems, Incorporated				Manufacturer Location: Greenlawn, NY			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 14			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
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
<b>Manufacturer Information: Global Air Traffic Mgmt RW ADS B Out</b>							
Manufacturer Name: BAE Systems, Incorporated				Manufacturer Location: Greenlawn, NY			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 16			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates				Dec 2013	Dec 2014	Dec 2015	Dec 2016
Delivery Dates				Mar 2015	Mar 2016	Mar 2017	Mar 2018
<b>Manufacturer Information: Global Air Traffic Mgmt RW ARC-231</b>							
Manufacturer Name: Raytheon, Incorporated				Manufacturer Location: Fort Wayne, IN			
Administrative Leadtime ( <i>in Months</i> ): 2				Production Leadtime ( <i>in Months</i> ): 10			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000

<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Manufacturer Information: Global Air Traffic Mgmt RW Transition Doors</b>	
Manufacturer Name: Aviation Applied Technology Directorate (AATD)	Manufacturer Location: Fort Belvoir, VA
Administrative Leadtime ( <i>in Months</i> ): 2	Production Leadtime ( <i>in Months</i> ): 15

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	Feb 2012	Feb 2013	Feb 2014	Feb 2015		Sep 2017	

<b>Installation:</b> Global Air Traffic Mgmt RW APX-118	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	1,243	9.356	319	2.200	221	1.500	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
<b>Total</b>	1,243	9.356	319	2.200	221	1.500	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> GATM Rotary Wing Aircraft - 0000
<b>Type Modification:</b> New or Improved Operational Capability		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW APX-118	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1,783	13.056

Installation Schedule																																			
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot				
		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	1,243	80	80	79	80	56	55	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,783
Out	1,164	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	0	0	0	0	0	0	0	0	1,783

<b>Installation:</b> Global Air Traffic Mgmt RW APX-123	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installation	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW APX-123		<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installation				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
	-	-	-	-	-	-	-	-	-	-	-	-
<b>To Complete</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
	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	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	180	1.300	45	0.360	0	0.000	0	0.000	0	0.000	225	1.660
FY 2012	0	0.000	80	0.640	45	0.360	0	0.000	0	0.000	125	1.000
FY 2013	0	0.000	0	0.000	30	0.240	80	0.600	0	0.000	110	0.840
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
<b>To Complete</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	180	1.300	125	1.000	75	0.600	80	0.600	0	0.000	460	3.500

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
In	-	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
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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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW APX-118 Upgrade Kits	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	5	0.100	183	0.900	449	2.800	423	1.627	0	0.000	423	1.627
FY 2011	0	0.000	0	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	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
<b>Total</b>	<b>5</b>	<b>0.100</b>	<b>183</b>	<b>0.900</b>	<b>449</b>	<b>2.800</b>	<b>520</b>	<b>2.000</b>	<b>0</b>	<b>0.000</b>	<b>520</b>	<b>2.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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
<b>Total</b>	<b>480</b>	<b>1.000</b>	<b>442</b>	<b>1.000</b>	<b>388</b>	<b>1.200</b>	<b>329</b>	<b>1.900</b>	<b>357</b>	<b>0.000</b>	<b>3,153</b>	<b>10.900</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> GATM Rotary Wing Aircraft - 0000
<b>Type Modification:</b> New or Improved Operational Capability		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW APX-118 Upgrade Kits	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	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	0	2,796
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	2,796

<b>Installation:</b> Global Air Traffic Mgmt RW ADS B Out	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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 Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> GATM Rotary Wing Aircraft - 0000
<b>Type Modification:</b> New or Improved Operational Capability		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW ADS B Out	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY 2014	0	0.000	150	0.500	270	1.300	104	0.396	0	0.000	524	2.196
FY 2015	0	0.000	0	0.000	0	0.000	600	2.281	0	0.000	600	2.281
FY 2016	0	0.000	0	0.000	0	0.000	348	1.323	0	0.000	348	1.323
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
<b>Total</b>	0	0.000	150	0.500	270	1.300	1,052	4.000	0	0.000	1,472	5.800

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75	68	67	68	67	263	263	263	263	0	1,472
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75	68	67	68	67	263	263	263	263	1,472

<b>Installation:</b> Global Air Traffic Mgmt RW ARC-231	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	0.000	120	6.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	299	15.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	52	2.399	0	0.000	52	2.399
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS		<b>Type Modification:</b> New or Improved Operational Capability
<b>Related RDT&amp;E PEs:</b>		

<b>Installation:</b> Global Air Traffic Mgmt RW ARC-231	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>										
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>						
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	0	0.000	120	6.000	299	15.000	52	2.399	0	0.000	52	2.399

<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	120	6.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	299	15.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	52	2.399
FY 2013	47	1.900	0	0.000	0	0.000	0	0.000	0	0.000	47	1.900
FY 2014	0	0.000	47	2.291	0	0.000	0	0.000	0	0.000	47	2.291
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	22	0.924	0	0.000	22	0.924
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	47	1.900	47	2.291	0	0.000	22	0.924	0	0.000	587	28.514

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
In	-	30	30	30	30	75	75	75	74	13	13	13	13	12	12	12	11	12	12	12	11	0	0	0	0	6	6	5	5	0	587
Out	-	0	30	30	30	30	75	75	75	74	13	13	13	13	12	12	12	11	12	12	12	11	0	0	0	0	6	6	5	5	587

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): GATM Rotary Wing Aircraft - 0000
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS	<b>Type Modification:</b> New or Improved Operational Capability	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW Transition Doors	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>165</b>	<b>10.509</b>	<b>205</b>	<b>10.000</b>	<b>88</b>	<b>3.200</b>	<b>0</b>	<b>0.000</b>	<b>88</b>	<b>3.200</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>49</b>	<b>3.100</b>	<b>47</b>	<b>2.291</b>	<b>11</b>	<b>0.524</b>	<b>17</b>	<b>1.500</b>	<b>5</b>	<b>0.000</b>	<b>587</b>	<b>31.124</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AA0711 - GATM Rollup
<b>Models of Systems Affected:</b> UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS		<b>Modification Nomenclature (Modification Title, Modification Number):</b> GATM Rotary Wing Aircraft - 0000
<b>Type Modification:</b> New or Improved Operational Capability		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> Global Air Traffic Mgmt RW Transition Doors	<b>Method of Implementation:</b> Modification Work Order (MWO) Depot Level Installations	<b>Installation Name:</b>
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<b>Installation Schedule</b>																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	55	55	55	55	50	50	50	49	13	13	13	13	12	12	12	11	12	12	12	11	0	0	0	0	6	6	5	5	587
Out	-	0	0	55	55	55	55	50	50	50	49	13	13	13	13	12	12	12	11	12	12	12	11	0	0	0	0	6	6	10	587

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 2 : Modification of Aircraft / BSA 10 : Modification Of Aircraft	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0375204A, 0375233A
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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)	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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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.



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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 2 : Modification of Aircraft / BSA 10 :  
Modification Of Aircraft **P-1 Line Item Nomenclature:**  
A00018 - RQ-7 UAV MODS

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0375204A, 0375233A

Funding for OSRVT upgrades is described in the OSRVT P3a.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
RQ-7 UAV MODS - 0000	P3A		-	-	649.939	-	-	548.998	-	-	165.139	-	-	104.339	-	-	-	-	-	104.339
<b>Total Gross/Weapon System Cost</b>					<b>649.939</b>			<b>548.998</b>			<b>165.139</b>			<b>104.339</b>			<b>-</b>			<b>104.339</b>
		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
RQ-7 UAV MODS - 0000	P3A		-	-	144.790	-	-	143.584	-	-	135.313	-	-	137.220	-	-	0.000	-	-	2,029.322
<b>Total Gross/Weapon System Cost</b>					<b>144.790</b>			<b>143.584</b>			<b>135.313</b>			<b>137.220</b>			<b>0.000</b>			<b>2,029.322</b>

\*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.

All COMPO 1 Active

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
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)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>649.939</b>	<b>548.998</b>	<b>165.139</b>	<b>104.339</b>	<b>-</b>	<b>104.339</b>	<b>144.790</b>	<b>143.584</b>	<b>135.313</b>	<b>137.220</b>	<b>0.000</b>	<b>2,029.322</b>

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

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

**Description:**  
Shadow Modifications

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> (Modification Title, Modification Number): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M)
<b>Procurement</b>												
SHADOW TACTICAL COMMON DATA LINK (TCDL) <sup>(1)</sup>												
A Kits												
Recurring												
TCDL System Retrofit Kits	19	262.800	42	373.800	6	55.819	7	25.891	0	0.000	7	25.891
UGCS Only System Retrofit	13	35.700	3	10.671	0	0.000	0	0.000	0	0.000	0	0.000
Launchers	0	0.000	42	12.027	0	0.000	7	2.901	0	0.000	7	2.901
GFE	0	16.000	0	13.200	0	2.225	0	2.640	0	0.000	0	2.640
Training Equipment	0	5.800	0	11.200	0	0.000	0	19.915	0	0.000	0	19.915
Training	0	8.100	0	6.900	0	2.670	0	16.288	0	0.000	0	16.288
Program Management	0	7.800	0	8.300	0	5.263	0	9.265	0	0.000	0	9.265
Engineering	0	3.100	0	3.300	0	2.091	0	3.681	0	0.000	0	3.681
Logistics	0	6.300	0	6.700	0	4.245	0	7.474	0	0.000	0	7.474
Subtotal Recurring		345.600		446.098		72.313		88.055		0.000		88.055
Total, SHADOW TACTICAL COMMON DATA LINK (TCDL)	32	345.600	87	446.098	6	72.313	14	88.055	0	0.000	14	88.055
SHADOW SYSTEM MODIFICATIONS <sup>(2)</sup>												
A Kits												
Recurring												
Attrition Air Vehicles	0	0.000	0	0.000	68	71.535	0	0.000	0	0.000	0	0.000
Mission Computer	0	0.000	0	0.000	0	0.000	44	3.519	0	0.000	44	3.519
High Reliability Engine	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Tripe Redundant Avionics	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Program Management	0	0.000	0	0.000	0	4.334	0	0.493	0	0.000	0	0.493
Engineering	0	0.000	0	0.000	0	1.722	0	0.196	0	0.000	0	0.196
Logistics	0	0.000	0	0.000	0	3.496	0	0.398	0	0.000	0	0.398
Subtotal Recurring		0.000		0.000		81.087		4.606		0.000		4.606

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M )
<i>Total, SHADOW SYSTEM MODIFICATIONS</i>	0	0.000	0	0.000	68	81.087	44	4.606	0	0.000	44	4.606
SHADOW PAYLOAD UPGRADES/MODIFICATIONS <sup>(3)</sup>												
A Kits												
Recurring												
Laser Designator	54	60.900	52	57.200	0	0.000	0	0.000	0	0.000	0	0.000
SIGINT	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
EO/IR/LD Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Training	0	2.600	0	3.100	0	0.000	0	0.000	0	0.000	0	0.000
Program Management	0	1.539	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000
Engineering	0	0.600	0	0.500	0	0.000	0	0.000	0	0.000	0	0.000
Logistics	0	1.200	0	0.900	0	0.000	0	0.000	0	0.000	0	0.000
<i>Subtotal Recurring</i>		66.839		62.900		0.000		0.000		0.000		0.000
<i>Total, SHADOW PAYLOAD UPGRADES/MODIFICATIONS</i>	54	66.839	52	62.900	0	0.000	0	0.000	0	0.000	0	0.000
ENCRYPTION AND OSRVT MODIFICATIONS <sup>(4)</sup>												
A Kits												
Recurring												
OSRVT Retrofit Kits	2,357	175.800	580	37.100	0	0.000	0	0.000	0	0.000	0	0.000
OSRVT BI Directional Modification Kit	0	0.000	0	0.000	400	10.200	400	10.200	0	0.000	400	10.200
Army TIES Retrofit Kits	470	56.900	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Program Management	0	4.800	0	2.900	0	0.639	0	0.600	0	0.000	0	0.600
Engineering	0	0.000	0	0.000	0	0.500	0	0.500	0	0.000	0	0.500
Logistics	0	0.000	0	0.000	0	0.400	0	0.378	0	0.000	0	0.378
<i>Subtotal Recurring</i>		237.500		40.000		11.739		11.678		0.000		11.678
<i>Total, ENCRYPTION AND OSRVT MODIFICATIONS</i>	2,827	237.500	580	40.000	400	11.739	400	11.678	0	0.000	400	11.678
<i>Total, All Modifications</i>		649.939		548.998		165.139		104.339		0.000		104.339

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years		FY 2011		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 (\$ M)
<i>Procurement Cost (Procurement + Support)</i>		649.939		548.998		165.139		104.339		0.000		104.339
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>649.939</b>		<b>548.998</b>		<b>165.139</b>		<b>104.339</b>		<b>0.000</b>		<b>104.339</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Procurement</b>												
SHADOW TACTICAL COMMON DATA LINK (TCDL) <sup>(1)</sup>												
A Kits												
Recurring												
TCDL System Retrofit Kits	6	60.127	6	62.362	6	63.634	8	42.082	0	0.000	100	946.515
UGCS Only System Retrofit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	46.371
Launchers	6	2.529	6	2.572	6	2.615	8	3.547	0	0.000	75	26.191
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	84.547
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
Engineering	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
<i>Subtotal Recurring</i>		<i>111.461</i>		<i>113.030</i>		<i>96.780</i>		<i>94.165</i>		<i>0.000</i>		<i>1,367.502</i>
<i>Total, SHADOW TACTICAL COMMON DATA LINK (TCDL)</i>	<i>12</i>	<i>111.461</i>	<i>12</i>	<i>113.030</i>	<i>12</i>	<i>96.780</i>	<i>16</i>	<i>94.165</i>	<i>0</i>	<i>0.000</i>	<i>191</i>	<i>1,367.502</i>
SHADOW SYSTEM MODIFICATIONS <sup>(2)</sup>												
A Kits												
Recurring												
Attrition Air Vehicles	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	68	71.535

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		7.805		12.290		19.967		24.109		0.000		149.864
<i>Total, SHADOW SYSTEM MODIFICATIONS</i>	80	7.805	150	12.290	228	19.967	288	24.109	0	0.000	858	149.864
SHADOW PAYLOAD UPGRADES/MODIFICATIONS <sup>(3)</sup>												
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
<i>Subtotal Recurring</i>		13.647		0.000		0.000		0.000		0.000		143.386
<i>Total, SHADOW PAYLOAD UPGRADES/MODIFICATIONS</i>	22	13.647	0	0.000	0	0.000	0	0.000	0	0.000	128	143.386
ENCRYPTION AND OSRVT MODIFICATIONS <sup>(4)</sup>												
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000

<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
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
<i>Subtotal Recurring</i>		11.877		18.264		18.566		18.946		0.000		368.570
<i>Total, ENCRYPTION AND OSRVT MODIFICATIONS</i>	400	11.877	650	18.264	650	18.566	675	18.946	0	0.000	6,582	368.570
<i>Total, All Modifications</i>		144.790		143.584		135.313		137.220		0.000		2,029.322
<i>Procurement Cost (Procurement + Support)</i>		144.790		143.584		135.313		137.220		0.000		2,029.322
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>144.790</b>		<b>143.584</b>		<b>135.313</b>		<b>137.220</b>		<b>0.000</b>		<b>2,029.322</b>

**Remarks:**

(1) 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.

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.

(2) 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 accommodate 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.

(3) 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.

(4) 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.

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.

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army					<b>Date:</b> February 2012		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10			<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000		
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION			<b>Type Modification:</b> UNCLASSIFIED		<b>Related RDT&amp;E PEs:</b>		
<b>Manufacturer Information: SHADOW TACTICAL COMMON DATA LINK (TCDL)</b>							
Manufacturer Name: AAI				Manufacturer Location: Hunt Valley, MD			
Administrative Leadtime ( <i>in Months</i> ): 7				Production Leadtime ( <i>in Months</i> ): 15			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	May 2012	Sep 2012	May 2013				
Delivery Dates	Aug 2013	Dec 2013	Aug 2014				
<b>Manufacturer Information: SHADOW SYSTEM MODIFICATIONS</b>							
Manufacturer Name: AAI				Manufacturer Location: Hunt Valley, MD			
Administrative Leadtime ( <i>in Months</i> ):				Production Leadtime ( <i>in Months</i> ):			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates							
Delivery Dates							
<b>Manufacturer Information: SHADOW PAYLOAD UPGRADES/MODIFICATIONS</b>							
Manufacturer Name: AAI				Manufacturer Location: Hunt Valley, MD			
Administrative Leadtime ( <i>in Months</i> ): 6				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	May 2011	Mar 2012	Mar 2013				
Delivery Dates	May 2012	Mar 2013	Mar 2014				
<b>Manufacturer Information: ENCRYPTION AND OSRV T MODIFICATIONS</b>							
Manufacturer Name: AAI				Manufacturer Location: Hunt Valley, MD			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Mar 2011	Feb 2012	Feb 2013				
Delivery Dates	Mar 2012	Feb 2013	Feb 2014				



**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> SHADOW TACTICAL COMMON DATA LINK (TCDL)	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION		<b>Modification Nomenclature (Modification Title, Modification Number):</b> RQ-7 UAV MODS - 0000
<b>Type Modification:</b> UNCLASSIFIED		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> SHADOW TACTICAL COMMON DATA LINK (TCDL)	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> SHADOW SYSTEM MODIFICATIONS	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> SHADOW SYSTEM MODIFICATIONS		<b>Method of Implementation:</b> FFP Contract				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>To Complete</b>		<b>Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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

<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
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

<b>Installation:</b> SHADOW PAYLOAD UPGRADES/MODIFICATIONS		<b>Method of Implementation:</b> FFP Contract				<b>Installation Name:</b>						
<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
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	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10		<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION		<b>Modification Nomenclature (Modification Title, Modification Number):</b> RQ-7 UAV MODS - 0000
<b>Type Modification:</b> UNCLASSIFIED		<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> SHADOW PAYLOAD UPGRADES/MODIFICATIONS	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ M)
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

<b>Installation:</b> ENCRYPTION AND OSRV T MODIFICATIONS		<b>Method of Implementation:</b> FFP Contract		<b>Installation Name:</b>								
Installation Cost	Prior Years		FY 2011		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 (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRVT MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> ENCRYPTION AND OSRVT MODIFICATIONS	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Cost	Prior Years		FY 2011		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 (\$ 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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
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	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>	<b>0</b>	<b>0.000</b>

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 2 / BSA 10	<b>P-1 Line Item Nomenclature:</b> A00018 - RQ-7 UAV MODS	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): RQ-7 UAV MODS - 0000
<b>Models of Systems Affected:</b> TCDL, SHADOW SYSTEM MODIFICATION, SHAWDOW PAYLOAD UPGRADE/MODIFICATION, ENCRYPTION OSRV T MODIFICATION	<b>Type Modification:</b> UNCLASSIFIED	<b>Related RDT&amp;E PEs:</b>

<b>Installation:</b> ENCRYPTION AND OSRV T MODIFICATIONS	<b>Method of Implementation:</b> FFP Contract	<b>Installation Name:</b>
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Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		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	-	0	0	0	0	0	0	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

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2031A : Aircraft Procurement, Army / BA 3 : Spares and Repair Parts / BSA 10 :  
 Spares And Repair Parts

**P-1 Line Item Nomenclature:**  
 AA0950 - Spare Parts (AIR)

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

Provides for the procurement of spares to support initial fielding of end items.

All COMPO 1 Active

**Justification:**

**UNCLASSIFIED**

**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  
10 : Ground Support Avionics

**P-1 Line Item Nomenclature:**  
AZ3504 - Aircraft Survivability Equipment

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604270A

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

**Description:**

The Aircraft Survivability Equipment (ASE) budget line includes ASE Laser Countermeasures (AZ3508), ASE Trainers (AZ3506), and ASE Radio Frequency Countermeasures (AZ3511).

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
*** (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
<b>Total Gross/Weapon System Cost</b>					<b>633.101</b>			<b>24.338</b>			<b>35.993</b>			<b>34.037</b>			-			<b>34.037</b>

\*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**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Army **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 4 / BSA 10 **P-1 Line Item Nomenclature:** AZ3504 - Aircraft Survivability Equipment **Aggregated Item Name:** Various

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>(Uncategorized)</i>																			
AZ3506 - ASE Trainers		-	-	-	-	-	2.121	-	-	3.837	-	-	1.398	-	-	-	-	-	1.398
<i>Uncategorized Subtotal</i>				0.000			2.121			3.837			1.398			0.000			1.398
<b>Total</b>				<b>0.000</b>			<b>2.121</b>			<b>3.837</b>			<b>1.398</b>			<b>0.000</b>			<b>1.398</b>

**Remarks:**

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>				<b>Date:</b> February 2012							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10				<b>P-1 Line Item Nomenclature:</b> AZ3504 - Aircraft Survivability Equipment				<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3508 - ASE Laser CM			

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	22.217	32.156	32.639	-	32.639
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	22.217	32.156	32.639	-	32.639
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	22.217	32.156	32.639	-	32.639

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

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

<b>Cost Elements</b> <small>(† indicates the presence of a P-5A)</small>	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>
Flyaway Cost																			
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
<b>Total Recurring Cost</b>				<i>0.000</i>			<i>22.217</i>			<i>32.156</i>			<i>32.639</i>			<i>0.000</i>			<i>32.639</i>
<b>Total Flyaway Cost</b>				<i>0.000</i>			<i>22.217</i>			<i>32.156</i>			<i>32.639</i>			<i>0.000</i>			<i>32.639</i>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2013 Army												<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10						<b>P-1 Line Item Nomenclature:</b> AZ3504 - Aircraft Survivability Equipment						<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3508 - ASE Laser CM					

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Gross Weapon System Cost				-			22.217			32.156			32.639			-			32.639

**Remarks:**

Secondary 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

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3504 - Aircraft Survivability Equipment	<b>Item Nomenclature:</b> AZ3508 - ASE Laser CM
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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.

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule:** PB 2013 Army **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 4 / BSA 10 **P-1 Line Item Nomenclature:** AZ3504 - Aircraft Survivability Equipment **Item Nomenclature:** AZ3508 - ASE Laser CM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012													Fiscal Year 2013													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
B-Kit Procurement (includes install)																																
	1	2011	ARMY	124	0	124	10	10	10	10	10	10	10	10	10	10	10	14														
	1	2012	ARMY	126	0	126	-	-	-	A -	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	16			
	1	2013	ARMY	142	0	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	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	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, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 4 / BSA 10 **P-1 Line Item Nomenclature:** AZ3504 - Aircraft Survivability Equipment **Item Nomenclature:** AZ3508 - ASE Laser CM

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015										B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
B-Kit Procurement (includes install)																														
	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	20	21	-	-	-	-	-	-	-	-	-	-	-		
							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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3504 - Aircraft Survivability Equipment	<b>Item Nomenclature:</b> AZ3508 - ASE Laser CM

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Goodrich - Danbury, CT	60	120	240	0	1	9	10	0	1	9	10

**Remarks:**  
 ‡ 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.

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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  
 10 : Ground Support Avionics

**P-1 Line Item Nomenclature:**  
 AZ3507 - Survivability CM

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

Resource Summary	Prior Years	FY 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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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.



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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  
 10 : Ground Support Avionics

**P-1 Line Item Nomenclature:**  
 AZ3507 - Survivability CM

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

Secondary Distribution		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	345.783	-	-	-	-

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AZ3507 - Survivability CM	P5, P5A, P21		-	-	-	-	-	345.783	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>2,538.375</b>			<b>345.783</b>			-			-			-			-

\*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

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3507 - Survivability CM	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3507 - Survivability CM

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	345.783	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	345.783	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	345.783	-	-	-	-

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

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

<b>Cost Elements</b> († indicates the presence of a P-5A)	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
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		-	-	-	-	-	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

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>														<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10							<b>P-1 Line Item Nomenclature:</b> AZ3507 - Survivability CM							<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3507 - Survivability CM					

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	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
<i>Total Recurring Cost</i>				0.000			345.783			0.000			0.000						0.000
<i>Total Flyaway Cost</i>				0.000			345.783			0.000			0.000						0.000
<b>Gross Weapon System Cost</b>				-			345.783			-			-						-

**Remarks:**

Secondary Distribution		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	345.783	-	-	-	-

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3507 - Survivability CM	<b>Item Nomenclature:</b> AZ3507 - Survivability CM
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	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:**

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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 10										P-1 Line Item Nomenclature: AZ3507 - Survivability CM										Item Nomenclature: AZ3507 - Survivability CM																
Cost Elements (Units in Each)							Fiscal Year 2011										Fiscal Year 2012																			
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011										Calendar Year 2012																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					
CMWS A-kit Procurement																																				
1		2011	ARMY	126	0	126	-	-	-	A	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	12	4							
CMWS Gen 3 ECU Hardware																																				
2		2011	ARMY	366	0	366	-	-	-	-	-	A	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	146
							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, Budget Production Schedule: PB 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 <i>(Units in Each)</i>							Fiscal Year 2013										Fiscal Year 2014													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
CMWS A-kit Procurement																														
1		2011	ARMY	126	126	0																								
CMWS Gen 3 ECU Hardware																														
2		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	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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3507 - Survivability CM	<b>Item Nomenclature:</b> AZ3507 - Survivability CM

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Various - 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:**  
 ‡ 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.

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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  
 10 : Ground Support Avionics

**P-1 Line Item Nomenclature:**  
 AZ3517 - CMWS

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	-	-	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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The 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, unguided 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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**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  
 10 : Ground Support Avionics

**P-1 Line Item Nomenclature:**  
 AZ3517 - CMWS

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

Secondary 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

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AZ3517 - CMWS	P5, P5A, P21		-	-	-	-	-	-	-	-	104.251	-	-	127.751	-	-	-	-	-	127.751
<b>Total Gross/Weapon System Cost</b>					-			-			104.251			127.751			-			127.751

\*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 \$127.751 million supports CMWS recurring production of the CMWS A-kits and associated installation and integration and the Gen 3 Electronic Control Unit (ECU) effort. A-kit unit costs vary and are platform specific (fixed versus rotary wing).  
  
 All COMPO 1 Active

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>				<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10		<b>P-1 Line Item Nomenclature:</b> AZ3517 - CMWS		<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3517 - CMWS			

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	104.251	127.751	-	127.751
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	104.251	127.751	-	127.751
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	104.251	127.751	-	127.751

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

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

<b>Cost Elements</b> <small>(† indicates the presence of a P-5A)</small>	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>	<small>Unit Cost (\$ K)</small>	<small>Quantity (Each)</small>	<small>Total Cost (\$ M)</small>
Flyaway Cost																			
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
<b>Total Recurring Cost</b>				<b>0.000</b>			<b>0.000</b>			<b>50.669</b>			<b>82.363</b>			<b>0.000</b>			<b>82.363</b>
Non Recurring Cost																			
Non-recurring Production		-	-	-	-	-	0.000	-	-	0.500	-	-	0.000	-	-	-	-	-	0.000
<b>Total Non Recurring Cost</b>				<b>0.000</b>			<b>0.000</b>			<b>0.500</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
<b>Total Flyaway Cost</b>				<b>0.000</b>			<b>0.000</b>			<b>51.169</b>			<b>82.363</b>			<b>0.000</b>			<b>82.363</b>
Support Cost																			
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
Other Modifications		-	-	-	-	-	0.000	-	-	0.595	-	-	1.079	-	-	0.000	-	-	1.079
CMWS Gen 3 ECU Hardware		-	-	-	-	-	0.000	139.000	360	49.922	139.000	301	41.858	-	-	0.000	139.000	301	41.858

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>												<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10						<b>P-1 Line Item Nomenclature:</b> AZ3517 - CMWS						<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3517 - CMWS					

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	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

<b>Remarks:</b>																							
<b>Secondary Distribution</b>				<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013 Base</b>				<b>FY 2013 OCO</b>				<b>FY 2013 Total</b>			
Army Active		Quantity		-				-				-				-				-			
		Total Obligation Authority		-				104.251				127.751				-				127.751			

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Army **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3517 - CMWS	<b>Item Nomenclature:</b> AZ3517 - CMWS
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†CMWS A-kit Procurement		2013	Various / Various	SS / CPFF	CECOM, APG	Dec 2012	Jun 2013	84	291.000	N		

**Remarks:**

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule:** PB 2013 Army **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 4 / BSA 10 **P-1 Line Item Nomenclature:** AZ3517 - CMWS **Item Nomenclature:** AZ3517 - CMWS

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013											Fiscal Year 2014												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013											Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
CMWS A-kit Procurement																														
	1	2013	ARMY (1)	84	0	84	-	-	A -	-	-	-	-	-	11	11	11	11	11	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 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

**UNCLASSIFIED**

<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 10	<b>P-1 Line Item Nomenclature:</b> AZ3517 - CMWS	<b>Item Nomenclature:</b> AZ3517 - CMWS

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Various - Various	18	300	800	3	3	12	15	2	2	9	11

**Remarks:**  
 ‡ 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.  
 (1)BASE

**UNCLASSIFIED**

**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:**  
AZ3000 - Avionics Support Equipment

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

Resource Summary	Prior Years	FY 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)	-	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 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)	-	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 Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
*** (See enclosed P-40A)	P40A				-		4.857			4.840			4.886			-			4.886	
<b>Total Gross/Weapon System Cost</b>				<b>485.769</b>			<b>4.857</b>			<b>4.840</b>			<b>4.886</b>			<b>-</b>			<b>4.886</b>	

\*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 \$4.886 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**

**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Army **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A / BA 4 / BSA 30 **P-1 Line Item Nomenclature:** AZ3000 - Avionics Support Equipment **Aggregated Item Name:** Various

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>(Uncategorized)</i>																			
K35601 - ANVIS	A	-	-	-	10.698	454	4.857	11.805	410	4.840	11.774	415	4.886	-	-	-	11.774	415	4.886
<i>Uncategorized Subtotal</i>				0.000			4.857			4.840			4.886			0.000			4.886
<b>Total</b>				<b>0.000</b>			<b>4.857</b>			<b>4.840</b>			<b>4.886</b>			<b>0.000</b>			<b>4.886</b>

**Remarks:**



**UNCLASSIFIED**

**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:**  
AZ3100 - Common Ground Equipment

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

Resource Summary	Prior Years	FY 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)	1,292.716	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

FY 2013 Base procurement dollars in the amount of \$82.511 million supports and provides various types of ground support equipment.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT	P5		-	-	-	-	-	141.324	-	-	114.517	-	-	82.511	-	-	-	-	-	82.511
<b>Total Gross/Weapon System Cost</b>					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 P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**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**

<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3100 - Common Ground Equipment	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	141.324	114.517	82.511	-	82.511
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	141.324	114.517	82.511	-	82.511
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	141.324	114.517	82.511	-	82.511

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

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

<b>Cost Elements</b> († indicates the presence of a P-5A)	<b>ID CD</b>	<b>Prior Years</b>			<b>FY 2011</b>			<b>FY 2012</b>			<b>FY 2013 Base</b>			<b>FY 2013 OCO</b>			<b>FY 2013 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Quantity (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
Recurring Cost																			
Aviation Ground Power Unit		-	-	-	-	-	65.025	-	-	60.311	-	-	13.787	-	-	0.000	-	-	13.787
Avn Light Utility Mobile Maint (ALUMMC)		-	-	-	-	-	0.000	-	-	0.000	-	-	3.159	-	-	0.000	-	-	3.159
Avn Intermediate Maint (AVIM) Shop Sets		-	-	-	-	-	17.570	-	-	13.395	-	-	12.201	-	-	0.000	-	-	12.201
Avn Unit Maintenance (AVUM)/(A92)		-	-	-	-	-	9.366	-	-	0.000	-	-	16.297	-	-	0.000	-	-	16.297
B1/B4 Maintenance Stands		-	-	-	-	-	0.000	-	-	0.000	-	-	2.633	-	-	0.000	-	-	2.633
Battle Damage Assess Repair (BDAR) II		-	-	-	-	-	6.591	-	-	5.861	-	-	2.345	-	-	0.000	-	-	2.345
Common Aviation Tool System (CATS)		-	-	-	-	-	13.080	-	-	0.000	-	-	21.188	-	-	0.000	-	-	21.188
Flexible Engine Diagnostics Sys (FEDS)		-	-	-	-	-	8.867	-	-	16.985	-	-	5.622	-	-	0.000	-	-	5.622
Non-Destructive Test Equipment (NDTE)		-	-	-	-	-	0.000	-	-	1.983	-	-	0.000	-	-	-	-	-	0.000
Pitot Static Test Sets (PSTS)		-	-	-	-	-	2.801	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>												<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30						<b>P-1 Line Item Nomenclature:</b> AZ3100 - Common Ground Equipment						<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT					

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	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
<i>Total Recurring Cost</i>				<i>0.000</i>			<i>141.324</i>			<i>114.517</i>			<i>82.511</i>			<i>0.000</i>			<i>82.511</i>
<i>Total Flyaway Cost</i>				<i>0.000</i>			<i>141.324</i>			<i>114.517</i>			<i>82.511</i>			<i>0.000</i>			<i>82.511</i>
<b>Gross Weapon System Cost</b>				<b>-</b>			<b>141.324</b>			<b>114.517</b>			<b>82.511</b>			<b>-</b>			<b>82.511</b>

**Remarks:**

Secondary 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**

**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:**  
 AZ3110 - Aircrew Integrated Systems

**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

Air Warrior survival and mission equipment improves the combat effectiveness of 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.

	Secondary 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

**UNCLASSIFIED**

**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:**  
 AZ3110 - Aircrew Integrated Systems

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AZ3110 - Aircrew Integrated Systems	P5, P5A, P21		-	-	-	-	-	52.125	-	-	62.746	-	-	77.381	-	-	-	-	-	77.381
<b>Total Gross/Weapon System Cost</b>					<b>408.053</b>			<b>52.125</b>			<b>62.746</b>			<b>77.381</b>			-			<b>77.381</b>

\*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 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>				<b>Date:</b> February 2012							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30				<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems				<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3110 - Aircrew Integrated Systems			

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	52.125	62.746	77.381	-	77.381
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	52.125	62.746	77.381	-	77.381
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	52.125	62.746	77.381	-	77.381

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

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

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† 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 W/less 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	-	-	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
† Communication 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

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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30		<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems
		<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AZ3110 - Aircrew Integrated Systems

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	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
<i>Total Recurring Cost</i>				<i>0.000</i>			<i>52.125</i>			<i>62.746</i>			<i>77.381</i>			<i>0.000</i>			<i>77.381</i>
<i>Total Flyaway Cost</i>				<i>0.000</i>			<i>52.125</i>			<i>62.746</i>			<i>77.381</i>			<i>0.000</i>			<i>77.381</i>
<b>Gross Weapon System Cost</b>				-			<b>52.125</b>			<b>62.746</b>			<b>77.381</b>			-			<b>77.381</b>

<b>Remarks:</b>								
<b>Secondary Distribution</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Army Active	Quantity	-	-	-	-	-	-	-
	Total Obligation Authority	52.125	62.746	77.381	-	77.381		

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Exhibit P-5A, Budget Procurement History and Planning: 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		
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	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		
†Communication 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
†Communication 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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<b>Exhibit P-5A, Budget Procurement History and Planning:</b> PB 2013 Army		<b>Date:</b> February 2012
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems	<b>Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems
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**Remarks:**  
1. Unit Cost of Air Warrior Microclimate Cooling Units decreases in Unit Cost from FY 2011 to FY 2012 due to procurement of Apache Block 3 cooling starting in FY 2012. FY 2011 cooling procurement was for other aircraft platforms.

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**Exhibit P-21, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems	<b>Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2011													Fiscal Year 2012												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP T O 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011													Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Air Warrior Ensembles																																
1		2011	ARMY	1004	0	1004	-	-	A -	-	-	-	83	84	84	84	84	84	84	84	84	84	83	83	83							
Air Warrior Microclimate Cooling Garment																																
2		2011	ARMY	500	0	500	-	-	A -	-	-	-	-	-	42	42	42	42	42	42	42	42	42	42	42	42	38					
Air Warrior Microclimate Cooling Units																																
3		2011	ARMY	567	0	567	-	-	A -	-	-	-	47	47	47	47	47	47	47	47	47	47	47	48	49							
3		2012	ARMY	100	0	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	50	50			
3		2013	ARMY	100	0	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100		
Electronic Data Mgr (EDM)																																
4		2011	ARMY	601	0	601	-	-	-	A -	-	-	50	50	50	50	50	50	50	50	50	50	50	50	51							
4		2012	ARMY	1500	0	1500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	84	84	84	84	84	84	996
Encrypt Acft Wrlless Intercom Sys (EAWIS)																																
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 Warrior Airframe Kits																																
6		2011	ARMY	1059	0	1059	-	-	A -	-	-	88	88	88	88	88	88	88	88	88	88	88	88	91								
6		2012	ARMY	1181	0	1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	94	94	94	94	94	94	94	523
6		2013	ARMY	1828	0	1828	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1828		
Survival Kit, Ready Access, Modular																																
7		2012	ARMY	9450	0	9450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	9450		
7		2013	ARMY	7203	0	7203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7203		
Communication Enhance/Protect Syst (CEPS)																																
8		2012	ARMY	4000	0	4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	4000			
8		2013	ARMY	4000	0	4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4000			
Day/Night Helmet Mounted Displays																																
9		2013	ARMY	908	0	908	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	908			
PRSS Platform Modifications																																
10		2012	ARMY	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	6		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	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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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army	<b>Date:</b> February 2012
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems	<b>Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2011													Fiscal Year 2012													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011													Calendar Year 2012													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	P	A
	10	2013	ARMY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E	P	A
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	A		

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**Exhibit P-21, Budget Production Schedule: PB 2013 Army** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems	<b>Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2013										Fiscal Year 2014														
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Air Warrior Ensembles																															
	1	2011	ARMY	1004	1004	0																									
Air Warrior Microclimate Cooling Garment																															
	2	2011	ARMY	500	500	0																									
Air Warrior Microclimate Cooling Units																															
	3	2011	ARMY	567	567	0																									
	3	2012	ARMY	100	100	0																									
	3	2013	ARMY	100	0	100	-	-	-	-	-	A -	-	-	50	50															
Electronic Data Mgr (EDM)																															
	4	2011	ARMY	601	601	0																									
	4	2012	ARMY	1500	504	996	166	166	166	166	166	166																			
Encrypt Acft Wrless Intercom Sys (EAWIS)																															
	5	2011	ARMY	246	246	0																									
	5	2012	ARMY	832	65	767	68	68	68	68	68	68	68	73	73	77															
	5	2013	ARMY	1212	0	1212	-	-	-	-	-	A -	-	-	101	101	101	101	101	101	101	101	101	101	101	101	101	101			
Air Warrior Airframe Kits																															
	6	2011	ARMY	1059	1059	0																									
	6	2012	ARMY	1181	658	523	94	94	94	104	137																				
	6	2013	ARMY	1828	0	1828	-	-	A -	-	-	152	152	152	152	152	152	152	152	152	152	152	152	154	154						
Survival Kit, Ready Access, Modular																															
	7	2012	ARMY	9450	0	9450	-	-	788	788	788	788	788	788	788	788	782	788	788												
	7	2013	ARMY	7203	0	7203	-	-	-	-	-	A -	-	-	600	600	600	600	600	600	600	600	600	600	601	601	601				
Communication Enhance/Protect Syst (CEPS)																															
	8	2012	ARMY	4000	0	4000	-	-	-	550	575	575	575	575	575																
	8	2013	ARMY	4000	0	4000	-	-	-	-	-	-	-	A -	-	-	-	-	333	333	333	333	333	333	333	333	333	335			
Day/Night Helmet Mounted Displays																															
	9	2013	ARMY	908	0	908	-	-	-	-	-	-	A -	-	-	-	-	-	75	75	75	75	75	75	75	75	75	79			
PRSS Platform Modifications																															
	10	2012	ARMY	6	0	6	-	-	-	-	-	-	-	-	-	6															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L



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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems	<b>Item Nomenclature:</b> AZ3110 - Aircrew Integrated Systems

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	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:**

‡ 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.

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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:**  
 AA0050 - Air Traffic Control

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604633A

Resource Summary	Prior Years	FY 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
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
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:**  
 2031A : Aircraft Procurement, Army / BA 4 : Support Equipment and Facilities / BSA  
 30 : Other Support

**P-1 Line Item Nomenclature:**  
 AA0050 - Air Traffic Control

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604633A

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AA0050 - Air Traffic Control	P5		-	-	-	-	-	82.374	-	-	114.844	-	-	47.235	-	-	-	-	-	47.235
<b>Total Gross/Weapon System Cost</b>					<b>911.289</b>			<b>82.374</b>			<b>114.844</b>			<b>47.235</b>			-			<b>47.235</b>

\*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 \$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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<b>Exhibit P-5, Cost Analysis: PB 2013 Army</b>				<b>Date:</b> February 2012							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30				<b>P-1 Line Item Nomenclature:</b> AA0050 - Air Traffic Control				<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AA0050 - Air Traffic Control			

Resource Summary		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Procurement Quantity (Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	82.374	114.844	47.235	-	47.235
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		-	82.374	114.844	47.235	-	47.235
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	82.374	114.844	47.235	-	47.235

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

Initial Spares (\$ in Millions)		-	82.374	114.844	47.235	-	47.235
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Cost Elements († indicates the presence of a P-5A)	ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
Fixed Base Precision Approach Radar		-	-	-	-	-	1.443	-	-	3.648	-	-	0.584	-	-	0.000	-	-	0.584
DoD Advanced Automation System (DAAS)		-	-	-	-	-	3.861	-	-	5.516	-	-	5.322	-	-	0.000	-	-	5.322
Digital Airport Surveillance Radar(DASR)		-	-	-	-	-	1.167	-	-	1.362	-	-	1.389	-	-	0.000	-	-	1.389
Tactical Airspace Integration Sys (TAIS)		-	-	-	-	-	25.846	-	-	19.977	-	-	13.819	-	-	0.000	-	-	13.819
Air Traffic Navigation and Integration		-	-	-	-	-	8.107	-	-	28.758	-	-	14.476	-	-	0.000	-	-	14.476
Navigational Control Aids		-	-	-	-	-	10.200	-	-	8.349	-	-	1.877	-	-	0.000	-	-	1.877
Tactical Terminal Control System (TTCS)		-	-	-	-	-	2.969	-	-	1.625	-	-	1.225	-	-	0.000	-	-	1.225
Mobile Tower System (MOTS)		-	-	-	-	-	28.781	-	-	44.549	-	-	7.655	-	-	0.000	-	-	7.655
Common Tactical Simulator		-	-	-	-	-	0.000	-	-	1.060	-	-	0.888	-	-	0.000	-	-	0.888
<b>Total Recurring Cost</b>				0.000			82.374			114.844			47.235			0.000			47.235
<b>Total Flyaway Cost</b>				0.000			82.374			114.844			47.235			0.000			47.235
<b>Gross Weapon System Cost</b>				-			82.374			114.844			47.235			-			47.235

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<b>Exhibit P-5, Cost Analysis:</b> PB 2013 Army		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A / BA 4 / BSA 30	<b>P-1 Line Item Nomenclature:</b> AA0050 - Air Traffic Control	<b>Item Nomenclature (Item Number, Item Name, DODIC):</b> AA0050 - Air Traffic Control

Remarks:

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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:**  
 AZ3300 - Industrial Facilities

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

Resource Summary	Prior Years	FY 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 following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

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

**Description:**

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

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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:**  
 A50100 - Launcher, 2.75 Rocket

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

Resource Summary	Prior Years	FY 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 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)	-	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 non-proprietary, open architecture standard interface for future enhancements.

Secondary 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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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Army	<b>Date:</b> February 2012
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2031A : Aircraft Procurement, Army / BA 4 : Support Equipment and Facilities / BSA 30 : Other Support	<b>P-1 Line Item Nomenclature:</b> A50100 - Launcher, 2.75 Rocket
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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FY13	FY14	FY15	FY16	FY17
MRL AH64	0	0	41 78	113
MRL OH58	0	0	59 120	282
M261	32 773	931	553	0
M260	63 1379	1206	686	0
Total	95 2152	2238	1437	395

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Army - President's Budget Submission FY 2013 - Procurement

### **Multiyear Procurement Exhibits**

- CH-47
- UH-60

**UNCLASSIFIED**

**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)**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.

	<u>\$ in 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
<b>Total</b>	<b>\$ 373.000</b>



<p><b>Exhibit MYP-1, Multiyear Procurement Criteria</b></p>	<p>Date: February 2012</p>
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<p><b>Appropriation / Budget Activity:</b> 2031 Aircraft Procurement - Army / Aircraft (BA-01)</p>	<p><b>P-1 Item Nomenclature:</b> CH-47 Helicopter (A05101)</p>
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**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 Contracts</u>	<u>MultiYear Contract</u>
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 %

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Exhibit MYP-2 Total Program Funding Plan (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
<b>Procurement Quantity</b>		31	28	30	39	27					155
<b>Annual Procurement</b>											
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
<b>Multiyear Procurement</b>											
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
<b>Advance Procurement</b>											
'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	1,159.0	915.0	927.0	1,190.0	755.0					5,001.0
<b>Multiyear Savings (\$)</b>		66.0	63.0	75.0	123.0	67.0					394.0
Multiyear Savings (%) (total only)											7.4 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
<b>OUTLAYS</b>											
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).

\* Numbers may not add due to rounding.

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Exhibit MYP-3 Total Contract Funding Plan (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
<b>Procurement Quantity</b>		31	28	30	39	27					155
<b>Annual Procurement</b>											
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
<b>Multiyear Procurement</b>											
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
<b>Advance Procurement</b>											
'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
<b>Multiyear Savings (\$)</b>		63.0	59.0	70.0	116.0	65.0					373.0
Multiyear Savings (%) (total only)											10.0 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
<b>OUTLAYS</b>											
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).

\* Numbers may not add due to rounding.

P-1 Shopping List - Item No  
20-6775A05101

Exhibit MYP-3, Total Contract Funding Plan  
(MYP, Page 5 of 6)

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Exhibit MYP-4 Present Value Analysis (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter (A05101) (ARMY)						
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL	
<b>Annual Proposal</b>											
Then Year Cost	86.0	443.0	631.0	716.0	802.0	623.0	268.0	75.0	23.0	3667.0	
Constant Year Cost	86.0	435.6	610.0	680.3	748.6	571.3	241.4	66.4	20.0	3459.6	
Present Value	84.8	425.3	589.8	651.4	710.0	536.7	224.6	61.2	18.3	3302.0	
<b>Multiyear Proposal</b>											
Then Year Cost	79.0	407.0	578.0	648.0	714.0	550.0	235.0	66.0	20.0	3297.0	
Constant Year Cost	79.0	400.2	558.8	615.7	666.4	504.3	211.7	58.4	17.4	3111.9	
Present Value	77.9	390.7	540.3	589.6	632.1	473.8	197.0	53.8	15.9	2970.9	
<b>Difference</b>											
Then Year Cost	7.0	36.0	53.0	68.0	88.0	73.0	33.0	9.0	3.0	370.0	
Constant Year Cost	7.0	35.4	51.2	64.6	82.1	66.9	29.7	8.0	2.6	347.6	
Present Value	6.9	34.6	49.5	61.9	77.9	62.9	27.7	7.3	2.4	331.0	
<b>Multiyear Savings (\$)</b>											
	7.0	36.0	53.0	68.0	88.0	73.0	33.0	9.0	3.0	370.0	

**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)

\* 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 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><u>\$ in Millions</u></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
<b>Total</b>	<b>\$ 113.000</b>

**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:**

	<u>Annual Contracts</u>	<u>MultiYear Contract</u>
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 %

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Exhibit MYP-2 Total Program Funding Plan (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter New Build (A05008) (ARMY)						
	2013	2014	2015	2016	2017	2018	2019	2020	2021		TOTAL
<b>Procurement Quantity</b>	12	6	4	12							34
<b>Annual Procurement</b>											
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
<b>Multiyear Procurement</b>											
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
<b>Advance Procurement</b>											
Plus CY Adv Procurement											
Weapon System Cost	525.0	221.0	157.0	404.0							1307.0
<b>Multiyear Savings (\$)</b>	34.0	20.0	15.0	51.0							120.0
Multiyear Savings (%)											8.4 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
<b>OUTLAYS</b>											
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

**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).

\* Numbers may not add due to rounding.



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Exhibit MYP-3 Total Contract Funding Plan (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter New Build (A05008) (ARMY)						
	2013	2014	2015	2016	2017	2018	2019	2020	2021		TOTAL
<b>Procurement Quantity</b>	12	6	4	12							34
<b>Annual Procurement</b>											
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
<b>Multiyear Procurement</b>											
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
<b>Advance Procurement</b>											
Plus CY Adv Procurement											
Contract Price	288.0	144.0	96.0	288.0							816.0
<b>Multiyear Savings (\$)</b>	32.0	19.0	14.0	48.0							113.0
Multiyear Savings (%)											12.2 %
Cancellation Ceiling, Funded											
Cancellation Ceiling, Unfunded											
<b>OUTLAYS</b>											
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).

\* Numbers may not add due to rounding.

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Exhibit MYP-4 Present Value Analysis (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter New Build (A05008) (ARMY)						
	2013	2014	2015	2016	2017	2018	2019	2020	2021		TOTAL
<b>Annual Proposal</b>											
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
<b>Multiyear Proposal</b>											
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
<b>Difference</b>											
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	0.8		102.2
<b>Multiyear Savings (\$)</b>											
	3.0	17.0	19.0	21.0	28.0	16.0	7.0	1.0	1.0		113.0

**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)

\* 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.

	<u>\$ in Millions</u>
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
<b>Total</b>	<b>\$ 260.000</b>

**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)

**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. 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 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 Contracts</u>	<u>MultiYear Contract</u>
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 %

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Exhibit MYP-2 Total Program Funding Plan (ARMY)					Date February 2012							
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)							
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		TOTAL
<b>Procurement Quantity</b>		19	22	26	27	27						121
<b>Annual Procurement</b>												
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
<b>Multiyear Procurement</b>												
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
<b>Advance Procurement</b>												
'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
<b>Multiyear Savings (\$)</b>		32.0	43.0	60.0	72.0	67.0						274.0
Multiyear Savings (%) (total only)												7.0 %
Cancellation Ceiling, Funded												
Cancellation Ceiling, Unfunded												
<b>OUTLAYS</b>												
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).

\* Numbers may not add due to rounding.

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Exhibit MYP-3 Total Contract Funding Plan (ARMY)					Date February 2012							
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)							
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		TOTAL
<b>Procurement Quantity</b>		19	22	26	27	27						121
<b>Annual Procurement</b>												
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
<b>Multiyear Procurement</b>												
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
<b>Advance Procurement</b>												
'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
<b>Multiyear Savings (\$)</b>		31.0	40.0	56.0	68.0	65.0						260.0
Multiyear Savings (%) (total only)												9.3 %
Cancellation Ceiling, Funded												
Cancellation Ceiling, Unfunded												
<b>OUTLAYS</b>												
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).

\* Numbers may not add due to rounding.

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Exhibit MYP-4 Present Value Analysis (ARMY)					Date February 2012						
PROCUREMENT					P-1 Line Item Nomenclature - CH-47 Helicopter SLEP (A05105) (ARMY)						
	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL	
<b>Annual Proposal</b>											
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	
<b>Multiyear Proposal</b>											
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	
<b>Difference</b>											
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	
<b>Multiyear Savings (\$)</b>											
	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)

\* 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

**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

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 in August 2002 and the latest revision (ORD Update 2) 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-60R and 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.

**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 are lethal and flexible platforms that offer the force commander multiple options to conduct a capabilities based response to future threats. 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
<b>TOTAL COST AVOIDANCE</b>	<b>502.9</b>	<b>347.4</b>	<b>850.3</b>

	<u>\$ in Millions</u>	
Inflation	\$	41.200

**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

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
<b>Total</b>	<b>\$</b>	<b>850.300</b>

**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 Contracts</u>	<u>MultiYear Contract</u>
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 %

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Exhibit MYP-2 Total Program Funding Plan (ARMY)						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	
<b>Procurement Quantity</b>		81	59	57	56	65								318	
<b>Annual Procurement</b>															
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	
<b>Multiyear Procurement</b>															
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	
<b>Advance Procurement</b>															
'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		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	
<b>Multiyear Savings (\$)</b>		22.0	141.9	85.8	95.4	157.8								502.9	
Multiyear Savings (%) (total only)														6.9 %	
Cancellation Ceiling, Funded															
Cancellation Ceiling, Unfunded															
<b>OUTLAYS</b>															
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	

\* Numbers may not add due to rounding.

P-1 Shopping List - Item No  
20-6772AA0005

Exhibit MYP-2, Total Program Funding Plan  
(MYP, Page 6 of 8)

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Exhibit MYP-3 Total Contract Funding Plan (ARMY)						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	
<b>Procurement Quantity</b>		81	59	57	56	65								318	
<b>Annual Procurement</b>															
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	
<b>Multiyear Procurement</b>															
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	
<b>Advance Procurement</b>															
'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	
<b>Multiyear Savings (\$)</b>		22.0	141.9	85.8	95.4	157.8								502.9	
Multiyear Savings (%) (total only)														9.8 %	
Cancellation Ceiling, Funded															
Cancellation Ceiling, Unfunded															
<b>OUTLAYS</b>															
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	

\* Numbers may not add due to rounding.

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Exhibit MYP-4 Present Value Analysis (ARMY)						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	
<b>Annual Proposal</b>															
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	
<b>Multiyear Proposal</b>															
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	
<b>Difference</b>															
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	
<b>Multiyear Savings (\$)</b>															
		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)

\* Numbers may not add due to rounding.