DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book

FY 2008 Global War on Terror Budget Estimate Submission Cost Adjustment

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

September 2007

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DEPARTMENT OF THE ARMY **EXHIBIT P-1**

FY 2008 Global War on Terror Budget Estimate Cost Adjustment

DATE: 01-Sep-2007

APPROPRIATION Aircraft Procurement, Army

FY 2008 Dollars in Thousands

ACTIVITY		Baseline COST	GWOT COST	GWOT Adj COST	Total COST
01	Aircraft	1,056,960	762,503	0	1,819,463
02	Modification of aircraft	1,412,722	1,111,407	9,600	2,533,729
04	Support equipment and facilities	583,623	26,396	215,558	825,577
APPROPRIATION TOTALS		**3,053,305**	**1,900,306**	**225,158**	**5,178,769**

DEPARTMENT OF THE ARMY **EXHIBIT P-1**

FY 2008 Global War on Terror Budget Estimate Cost Adjustment

DATE: 01-Sep-2007

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 01 Aircraft

FY 2008 Dollars in Thousands

			Baseline		GWOT		GWOT Adj		Total	
LINE NO	**ITEM NOMENCLATURE**	**ID**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
	FIXED									
2	UTILITY F/W AIRCRAFT (A11300)					12,500				12,500
	SUB-ACTIVITY TOTAL			0		12,500		0		12,500
	ROTARY									
3	ARMED RECONNAISSANCE HELICOPTER (A04203)			468,259		222,600				690,859
5	UH-60 BLACKHAWK (MYP) (AA0005)			588,701		527,403				1,116,104
	SUB-ACTIVITY TOTAL			1,056,960		750,003		0		1,806,963
	ACTIVITY TOTAL			**1,056,960**		**762,503**		**0**		**1,819,463**

DEPARTMENT OF THE ARMY **EXHIBIT P-1**

FY 2008 Global War on Terror Budget Estimate Cost Adjustment

DATE: 01-Sep-2007

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 02 Modification of Aircraft

FY 2008 Dollars in Thousands

			Baseline		GWOT		GWOT Adj		Total	
LINE NO	**ITEM NOMENCLATURE**	**ID**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
	MODIFICATIONS OF AIRCRAFT									
10	GUARDRAIL MODS (TIARA) (AZ2000)			149,062		33,000				182,062
11	ARL MODS (TIARA) (AZ2050)			52,298		25,000				77,298
12	AH-64 MODS (AA6605)			670,704		417,800				1,088,504
14	CH-47 CARGO HELICOPTER MODS (AA0252)			540,658		635,607		9,600		1,185,865
	SUB-ACTIVITY TOTAL			1,412,722		1,111,407		9,600		2,533,729
	ACTIVITY TOTAL			**1,412,722**		**1,111,407**		**9,600**		**2,533,729**

DEPARTMENT OF THE ARMY **EXHIBIT P-1**

FY 2008 Global War on Terror Budget Estimate Cost Adjustment

DATE: 01-Sep-2007

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 04 Support Equipment and Facilities

FY 2008 Dollars in Thousands

			Baseline		GWOT		GWOT Adj		Total	
LINE NO	**ITEM NOMENCLATURE**	**ID**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
	GROUND SUPPORT AVIONICS									
25	ASE INFRARED CM (AZ3507)			365,472				207,435		572,907
	SUB-ACTIVITY TOTAL			365,472		0		207,435		572,907
	OTHER SUPPORT									
28	COMMON GROUND EQUIPMENT (AZ3100)			80,221		10,000		356		90,577
29	AIRCREW INTEGRATED SYSTEMS (AZ3110)			42,727		10,200				52,927
30	AIR TRAFFIC CONTROL (AA0050)			95,203		6,196		7,767		109,166
	SUB-ACTIVITY TOTAL			218,151		26,396		8,123		252,670
	ACTIVITY TOTAL			**583,623**		**26,396**		**215,558**		**825,577**
	APPROPRIATION TOTAL			**3,053,305**		**1,900,306**		**225,158**		**5,178,769**

NOMENCLATURE INDEX

SSN INDEX

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
GUARDRAIL MODS (TIARA) (AZ2000)										
GUARDRAIL Information Node (GRFN)										
SIGINT Transition Program (STP)										
Interference Cancellation Sys/Radio Relay Sys										
JTT Upgrades										
Airborne Tactical Common Data Link										
Upward Frequency extension (UFX)										
System 2 Tracker & LAN Upgrade										
Guardian Eagle System Upgrades										
Comm High Accuracy Location Sys-Compact (CHALS-			8.3							8.3
System 2 Stabilization										
Enhance Situational Awareness (ESA) 1,2,4			86.9							86.9
Air to Air Data Link - GWOT			33.0							33.0
High Band COMINT (HBC) Subsystem			44.8							44.8
Guardrail Ground Base Sub-System			2.7							2.7
Special Signals Subsystem			6.4							6.4
Total			**182.1**							**182.1**
ARL MODS (TIARA) (AZ2050)										
TF ODIN C-12R ARMS - GWOT			25.0							25.0
Radar			9.1							9.1
Imagery			11.0							11.0
Workstation Architecture			4.2							4.2
Safety Upgrades			2.4							2.4
Upgrade to DAMA Compliant Radio										
Comint Upgrades			6.3							6.3
System Interoperability			10.3							10.3
Joint Tactical Terminal (JTT) Integration										
ARL-C to ARL-M Conversion			9.0							9.0
Total			**77.3**							**77.3**
AH-64 MODS (AA6605)										
Apache Sensors Life Extension & Upgrades			9.4							9.4

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
AH-64A MISC Mods $5M or less (no P3a set)			5.4							5.4
Apache Transformation			4.1							4.1
Modernized TADS/PNVS (M-TADS)			102.7							102.7
701C Engines (no P3a set)										
Internal Auxiliary Fuel System (IAFS)			7.4							7.4
AH-64 R&S & Recap			3.0							3.0
AH-64D Block III										
Fire Control Radar (FCR)Obsolescence & Integration			3.8							3.8
AH-64 Training Devices										
AH-64 Block II Upgrade			508.0							508.0
AH-64 Post Production Organic Support			2.1							2.1
AH-64D Longbow Replacement Aircraft - GWOT			414.0							414.0
Aircraft Survivability Product Improvement (ASPI)			69.6							69.6
Total			**1129.5**							**1129.5**
CH-47 CARGO HELICOPTER MODS (AA0252)										
Engine Filtration System			0.2							0.2
Engine Upgrade to T55-GA-714A Configuration			14.4							14.4
CH-47F			1147.0							1147.0
Helicopter Internal Cargo Handling System (GWOT)			9.6							9.6
M240 Window/Door Gun Mount			4.5							4.5
Engine Fire Extinguisher (Halon Replacement)			8.3							8.3
Transformation Sets, Kits and Outfits			7.7							7.7
Maintenance Training Devices (MTD)			5.3							5.3
Aircraft Component Parts-marking			8.8							8.8
Ballistic Protection System (BPS)			4.5							4.5
Aviation Training Devices (AVCATT)			4.7							4.7
CH-47 MISC Mods $5M or Less			10.1							10.1
Total			**1225.1**							**1225.1**
Grand Total			**2614.0**							**2614.0**

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	UTILITY F/W AIRCRAFT (A11300)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				12.5							12.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				12.5							12.5
Initial Spares											
Total Proc Cost				12.5							12.5
Flyaway U/C											
Weapon System Proc U/C											

Description:
The budget line primarily covers the procurement of all fixed wing aircraft except the Joint Cargo Aircraft (JCA). This budget line also provides new commercial-off-the shelf, non-developmental, safety and mandated navigation communication efforts related to Army fixed wing aircraft.

Justification:

FY 2008 Base Appropriation	$ 0.0
FY 2008 GWOT Request	$ 12.5
FY 2008 Total	$ 12.5

FY08 GWOT Request funds safety and mandated navigation communication efforts related to Army fixed wing aircraft.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: UTILITY F/W AIRCRAFT (A11300)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
FY08 Baseline													
FY08 GWOT Request													
Safety/Navigation Communication Support								12500					
FY08 GWOT Total								**12500**					
Total:								**12500**					

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	ARMED RECONNAISSANCE HELICOPTER (A04203)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				66							66
Gross Cost				690.9							690.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				690.9							690.9
Initial Spares											
Total Proc Cost				690.9							690.9
Flyaway U/C											
Weapon System Proc U/C											

Description:

The mission of the Armed Reconnaissance Helicopter (ARH) is to provide a robust reconnaissance and security capability for the Joint Combined arms air-ground maneuver team. The ARH is a combination of a modified off-the-shelf (OTS) airframe integrated with a non-developmental item (NDI) mission equipment package (MEP). The ARH will be fielded to support current forces in the Global War on Terror (GWOT) and will possess the growth potential to bridge the capability gaps to the Future Combat Force. ARH is a replacement for the aging Kiowa Warrior fleet.

The rapidly reconfigurable ARH provides the space, weight, and power to incorporate the MEP, as Mission, Enemy, Terrain, Troops available, Time and Civilian considerations(METT-TC) dictates, for use in High/hot (4K/95°F with growth potential to 6K/95°F) conditions, complex terrain, and urban environments. The MEP provides a robust communications and navigation suite, advanced state-of-the-art sensor assembly, and self-defense armament capability to fight for, collect, and distribute critical information to all members of the Joint air-ground maneuver team. Specifically, the ARH robust communication suite when combined with the sensors assembly provides real time delivery of actionable combat information to the joint force while enabling precision employment of Joint sensors and fires.

The ARH will provide a highly deployable, reconnaissance and security capability that will employ immediately upon arrival into theater. The platform will address the capability gaps of interoperability, survivability, versatility, agility, lethality, and sustainability to ensure interoperability over extended ranges, enhance mission effectiveness throughout the operational environment, and focus on system survivability against threats operating in the contemporary operational environment, while reducing the logistical burden on the tactical unit. The fundamental purpose of ARH is to perform reconnaissance and to provide security in combat operations. In doing so, it improves the commander's ability to maneuver and concentrate superior combat power against the enemy at the decisive time and place.

Justification:

FY 2008 Base Appropriation	$468.3 (37 ea)
FY 2008 GWOT Request Request	$222.6 (29 ea)
FY 2008 Total	$690.9

FY08 Main Supplemental will fund 29 ARH aircraft to replace OH-58D Kiowa Warrior combat losses.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: ARMED RECONNAISSANCE HELICOPTER (A04203)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Contract Flyaway								422162	66	6396.4			
Government Flyaway								40486					
Total Flyaway								**462648**					
Armament / Mission Kits								18501					
Training Devices / Services								75591					
Support Equipment								35868					
Other Support								40610					
Total Other Procurement								**170570**					
Gross P-1 End Cost								**633218**					
Less: Prior Year Adv Proc													
Net P-1 Full Funding Cost													
Plus: P-1 CY Adv Proc								57641					
Other Non P-1 Costs													
Total:								**690859**					

Exhibit P-5a, Budget Procurement History and Planning

Date: September 2007

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 1/ Aircraft		ARMED RECONNAISSANCE HELICOPTER (A04203)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Contract Flyaway										
FY 2008 LOT2A	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Dec 07	Dec 08	37	5851	NO		DEC 04
FY 2008	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Jun 08	Jun 09	29	7092	NO		SEP 07

REMARKS:

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date: September 2007

COST ELEMENTS

MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07 / Calendar Year 07 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 08 / Calendar Year 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Later
Contract Flyaway																														
1	FY 08 LT2A	A	37	0	37															A										37
2	FY 08	A	29	0	29																					A				29
Total			66		66																									66

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	4		1	Initial	0	3	12	15	
							Reorder	0	1	12	13	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	3		2	Initial	6	3	12	15	
							Reorder	0	1	12	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date: September 2007

COST ELEMENTS						Fiscal Year 09												Fiscal Year 10										
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09												Calendar Year 10										Later
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Contract Flyaway																												
1	FY 08 LT2A	A	37	0	37			2	4	4	4	4	4	2	2	2	3	3	3										0
2	FY 08	A	29	0	29									3	3	3	3	3	3	2	2	2	2	2	1				0
Total			66		66			2	4	4	4	4	4	5	5	5	6	6	6	2	2	2	2	2	1				
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	4		1	Initial	0	3	12	15	
							Reorder	0	1	12	13	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	3		2	Initial	6	3	12	15	
							Reorder	0	1	12	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 1 / Aircraft	UH-60 BLACKHAWK (MYP) (AA0005)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 0203744A/Project 504

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				72							72
Gross Cost				1299.1							1299.1
Less PY Adv Proc				183.0							183.0
Plus CY Adv Proc				116.7							116.7
Net Proc P1				1232.8							1232.8
Initial Spares											
Total Proc Cost				1232.8							1232.8
Flyaway U/C											
Weapon System Proc U/C				17.1							17.1

Description:
UH-60 BLACK HAWK and associated equipment.

Justification:

FY 2008 Base Appropriation	$588.7 (42 ea)
FY 2008 GWOT Request Request	$527.4 (30 ea)
FY 2008 Advance Procurement	$116.7
FY 2008 Total	$1,232.8

FY 2008 Baseline includes Advance Procurement.
Quantity of 72 helicopters includes 42 funded in the FY 2008 Baseline request and 30 helicopters funded in the FY 2008 Main Supplemental request.

FY 2008 Base Budget in the amount of $588.7 million will procure 42 UH-60M aircraft, continues fielding, and provides for Program Management Office operations.

FY 2008 GWOT Request of $527.4 million will procure 20 additional UH-60M MEDEVAC aircraft and 10 additional UH-60M aircraft. Ten UH-60M and 2 HH-60M aircraft will replace aircraft lost in the Global War on Terrorism. Eighteen HH-60Ms will support the MEDEVAC force structure increase.

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	UH-60 BLACK HAWK (MYP) (A05002)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		0203744A/Project 504

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				72							72
Gross Cost				1299.1							1299.1
Less PY Adv Proc				183.0							183.0
Plus CY Adv Proc				116.7							116.7
Net Proc P1				1232.8							1232.8
Initial Spares											
Total Proc Cost				1232.8							1232.8
Flyaway U/C											
Weapon System Proc U/C				17.1							17.1

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.

Justification:

FY 2008 Base Appropriation	$588.7 (42 ea)
FY 2008 GWOT Request Request	$527.4 (30 ea)
FY 2008 Advance Procurement	$116.7
FY 2008 Total	$1,232.8

FY 2008 Baseline includes Advance Procurement.
Quantity of 72 helicopters includes 42 funded in the FY 2008 Baseline request and 30 helicopters funded in the FY 2008 Main Supplemental request.

FY 2008 Base Budget in the amount of $588.7 million will procure 42 UH-60M aircraft, continues fielding, and provides for Program Management Office operations.

FY 2008 GWOT Request of $527.4 million will procure 20 additional UH-60M MEDEVAC aircraft and 10 additional UH-60M aircraft. Ten UH-60M and 2 HH-60M aircraft will replace aircraft lost in the Global War on Terrorism.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft			P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)			Weapon System Type:			Date: September 2007		
ACFT	ID	**FY 06**			**FY 07**			**FY 08**			**FY 09**		
Cost Elements	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Costs													
Airframes/CFE								876135	72	12169			
Engines/Accessories								93456	144	649			
Avionics (GFE)								38586					
Other GFE								26638					
Armament													
ECO (All FLYAWAY Components)								21888					
Other Costs (Mission Equipment)								123229					
Tooling Equipment								18328					
Other Nonrecurring Cost								1070					
Total FLYAWAY								**1199330**					
Support Cost													
Airframe PGSE													
Engine PGSE													
Peculiar Training Equipment								42833					
Publications/Tech Data								1159					
PM Administration								23417					
Fielding								32374					
Subtotal Support Cost								**99783**					
Gross P-1 End Item Cost								**1299113**					
Less: Prior Year Adv Proc								183009					
Net P-1 Full Funding Cost								**1116104**					
Plus: P-1 CY Adv Proc								116745					
Initial Spares													
Total:								**1232849**					

Exhibit P-5a, Budget Procurement History and Planning

Date: September 2007

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 1/ Aircraft		UH-60 BLACK HAWK (MYP) (A05002)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2008	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 08	Jul 08	42	12169	Yes		May-05
FY 2008	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 08	Jul 09	30	12169	Yes		May-05

REMARKS:

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UH-60 BLACK HAWK (MYP) (A05002)

Date:
September 2007

COST ELEMENTS

MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08 / Calendar Year 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 09 / Calendar Year 09 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Later
Airframes/CFE																														
1	FY 08	A	42	0	42				A						3	3	3	3	3	2	4	3	2	5	6	5				0
1	FY 08	A	30	0	30				A																		3	2	3	22
1	FY 08	NA	18	0	18										1	2	1	2	2	1	1	2	1	2	2	1				0
1	FY 08	NA	24	0	24																2	2	2	2	2	2	2	2	2	6
Total			114		114										4	5	4	5	5	3	7	7	5	9	10	8	5	4	5	28

PRODUCTION RATES

MFR	Name - Location	MIN	1-8-5	MAX	Reached D+
1	Sikorsky Aircraft, Stratford CT	18	96	180	22

MFR		ADMIN LEAD TIME Prior 1 Oct	ADMIN LEAD TIME After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	8	3	6	9
	Reorder	0	3	6	9
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UH-60 BLACK HAWK (MYP) (A05002)

Date:
September 2007

COST ELEMENTS

MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10 / Calendar Year 10 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 11 / Calendar Year 10 OCT	NOV	DEC	Calendar Year 11 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Later
Airframes/CFE																														
1	FY 08	A	42	42																										0
1	FY 08	A	30	8	22	3	2	4	2	2	2	2	2	3																0
1	FY 08	NA	18	18																										0
1	FY 08	NA	24	18	6	2	2	2																						0
Total			114	86	28	5	4	6	2	2	2	2	2	3																
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Sikorsky Aircraft, Stratford CT	18	96	180	22

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	8	3	6	9
	Reorder	0	3	6	9
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
FY08 quantity consists of 42 UH-60M aircraft and 30 HH-60M Medevac aircraft.

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 2 / Modification of aircraft	GUARDRAIL MODS (TIARA) (AZ2000)	
Program Elements for Code B Items:	Code:	Other Related Program Elements:

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				182.1							182.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				182.1							182.1
Initial Spares											
Total Proc Cost				182.1							182.1
Flyaway U/C											
Weapon System Proc U/C											

Description:

GUARDRAIL is an Airborne signal intercept and emitter location system designed to provide tactical commanders with critical battlefield information via a Joint Tactical Terminal (JTT) and other DoD tactical and fixed communications systems (e.g., Guardrail Reporting Shelter--GRS). It currently provides intelligence data via Commanders Tactical Terminal (CTT) to other INTEL users, such as Common Ground System(CGS) and All Source Analysis System (ASAS) via the Tactical Information Broadcast Service (TIBS) and Tactical Reconnaissance Intelligence Exchange System (TRIXS), etc networks. The Army's GUARDRAIL/Common Sensor (GR/CS) System provides a highly flexible architecture to allow rapid deployment to support contingency operations, and was designed to support field commanders until a future system is fielded.

The GRCS integrates Communications Intelligence (COMINT), the Communications High Accuracy Airborne Location System (CHAALS/CHALS-X) for COMINT precision emitter locations, the Advanced QUICKLOOK (AQL) for electronics intelligence (ELINT) precision emitter location, and the Guardian Eagle technical insertion payload into a single signal intelligence (SIGINT) system. The airborne elements are integrated into the RC-12H/K/N/P/Q aircraft. Ground processing is conducted in the Surveillance Information Processing Center, commonly referred to as the GGB. Key performance requirements include a real-time COMINT and ELINT collection and high accuracy target location capability in communications and radar frequencies. The Tactical Common Data Link (TCDL) connects the airborne elements and the ground processing element. A satellite remote relay supports rapid deployment, minimum footprint forward, and remote signal processing capability. GR/CS Guardian Eagle (GE) payloads on System 1, 2, 3, & 4 were provided updated hardware and software to enhance the GR/CS ability to process non-traditional signals, providing intercept of military communication emitters, and modern commercially available hand-held communication devices. The Guardian Eagle is software upgradeable and has an open architecture that incidentally harnesses National and Services' DCP investment for future GR/CS upgrades. This capability supports ongoing Deployments in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and the Global War on Terrorism (GWOT). GRCS contributes directly to the success of Army Modernization by serving as an operational platform for verification of new or improved technologies.

Justification:

FY 2008 Base Appropriation	$149.1
FY 2008 Main Supplemental Request	$ 33.0
FY 2008 Total	$182.1

Justification: FY08 budget will provide the following capabilities for GR/CS: An Enhanced precision geo-location subsystem "Communication High Accuracy Location System-Compact (CHALS-

Exhibit P-40, Budget Item Justification Sheet			Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft		P-1 Item Nomenclature GUARDRAIL MODS (TIARA) (AZ2000)	
Program Elements for Code B Items:	Code:	Other Related Program Elements:	

C)", a greatly improved COMINT Infrastructure and Core COMINT Subsystem "Enhanced Situational Awareness (ESA)"; improved "Guardrail Ground Base (GGB) Subsystem" hardware and software which is migrating to Distributed Common Ground System - Army (DCGS-A); increased capability against modern signals "High Band COMINT (HBC)" subsystem; and increased capability against low probability of intercept (LPI) "Special Signals" subsystem.

FY08 GWOT request provides for the purchase of an Air to Air Data Link for 3 GRCS Systems.

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	GUARDRAIL MODS (TIARA) (AZ2000)		
Program Elements for Code B Items:		Code:	Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
GUARDRAIL Information Node (GRFN)											
1-01-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIGINT Transition Program (STP)											
1-02-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interference Cancellation Sys/Radio Relay Sys											
1-02-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JTT Upgrades											
1-03-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Airborne Tactical Common Data Link											
1-03-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upward Frequency extension (UFX)											
1-05-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
System 2 Tracker & LAN Upgrade											
1-05-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guardian Eagle System Upgrades											
1-03-333-3333		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comm High Accuracy Location Sys-Compact (CHALS-											
1-06-111-2006		0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	8.3
System 2 Stabilization											
1-06-222-2006		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enhance Situational Awareness (ESA) 1,2,4											
1-06-333-2006		0.0	0.0	86.9	0.0	0.0	0.0	0.0	0.0	0.0	86.9
Air to Air Data Link - GWOT											
1-07-444-2007		0.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0
High Band COMINT (HBC) Subsystem											
1-07-222-2007		0.0	0.0	44.8	0.0	0.0	0.0	0.0	0.0	0.0	44.8
Guardrail Ground Base Sub-System											
1-07-111-2007		0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	GUARDRAIL MODS (TIARA) (AZ2000)		
Program Elements for Code B Items:		Code:	Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Special Signals Subsystem											
1-07-333-2007		0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	6.4
Totals		0.0	0.0	182.1	0.0	0.0	0.0	0.0	0.0	0.0	182.1

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Comm High Accuracy Location Sys-Compact (CHALS- [MOD 9] 1-06-111-2006

MODELS OF SYSTEM AFFECTED: Systems 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:

CHALS-C will provide commercial off-the-shelf hardware for Guardrail, resulting in enhanced precision geo-location capability to the warfighter. The 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. This provides risk reduction for future Army ISR systems. GRCS provides the only SIGINT precision geo-location capability available to the warfighter, as well as the majority of total threater-wide SIGINT reporting. Without these critical upgrades, the system will not remain relevant as evolving technology begins to exceed current capabilities. The goal is to replace CHAALS and CHALS-X Precision Location Sub-systems on four (4) GRCS Systems with CHALS-C. This provides reduced size and weight, increases frequency coverage and throughput, and provides data archiving for improved performance and TNG Cooperative Operations.
Justification: The FY08 funding provides for recurring equipment purchases and minimal PM support. Installation and fielding of the B Kits will be performed by the GRCS Integration contractor under the Enhanced Situational Awareness (ESA) Mod.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 2nd Contract Awd
2QFY08 Flight Test

NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Comm High Accuracy Location Sys-Compact (CHALS- [MOD 9] 1-06-111-2006

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring Installation A-Kits																				
Recurring Fabrication A-Kits																				
Non-recurring CHALS-C																				
Recurring CHALS-C HW					11	5.8													11	5.8
Manuals/Training Doc						0.7														0.7
Test Supt						0.5														0.5
Initial Spares					1	0.5													1	0.5
Fielding Support						0.6														0.6
PM Support/TDY						0.2														0.2
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		8.3		0.0		0.0		0.0		0.0		0.0		0.0		8.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Enhance Situational Awareness (ESA) 1,2,4 [MOD 11] 1-06-333-2006

MODELS OF SYSTEM AFFECTED: System 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:

The ESA Upgrade provides a Modern Airborne COMINT Subsystem and infrastructure on the GRCS aircraft, provides a capability against modern commercial targets and allows GRCS to remain relevant until ACS is fielded. The ESA upgrade replaces the current 1980's vintage Direction Finding (DF) and signal classification subsystems with a Net-Centric Sustainable Architecture capable of mapping the modern signal environment and provides the software on the ground to enable sensor control and signal exploitation tools. Without these critical upgrades, the system will lose its ability to remain relevant against evolving threat signal environment.

ESA also includes the integration, test and fielding for the CHALS-C subsystem, High Band COMINT (HBC), Special Signals (SS), integration of current X-Midas, data link equipment, and for the Re-Capitalization of (9) RC-12N Model Aircrafts. As part of platform standardization efforts, ESA will provide data link and cockpit upgrades for the first seven aircraft.

Justification: FY08 provides ESA A&B Kits for the 1st system, aircraft cockpit modifications for 1st system, and program management support to include ESA, CHALS-C, GRCS Ground Base Modifications, HBC and SS. ESA provides greatly improved COMINT infrastructure and Core COMINT capability allowing more open architecture and increased capabilities against emerging OEF/OIF threats. Installation of ESA includes contract costs to integrate/test/fielding ESA, CHALS-C, HBC and SS. GRCS GGB installation and fielding costs are provided by customer funds.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

4QFY08 Factory Acceptance Test

NOTE: Systems installation will occur as units become available between deployments. Fielding dates are driven by consolidated fieldings.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Enhance Situational Awareness (ESA) 1,2,4 [MOD 11] 1-06-333-2006

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring																				
Recurring Engr A-Kit					7	12.7													7	12.7
Recurring Engr B-Kit					11	47.3													11	47.3
Spare B-Kits					1	4.4													1	4.4
Aircraft Upgrade Cockpit						12.0														12.0
Sys Assessment/Test																				
Training																				
Fielding																				
PM Support						10.5														10.5
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		86.9		0.0		0.0		0.0		0.0		0.0		0.0		86.9

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Air to Air Data Link - GWOT [MOD 12] 1-07-444-2007

MODELS OF SYSTEM AFFECTED: GRCS Systems 1, 2 and 4

DESCRIPTION / JUSTIFICATION:

This effort allows the GRCS systems rotating with AEB to OIF to be upgraded to enhance signal processing and dissemination capabilities. It will fund the engineering and hardware to upgrade the air to ground processing and dissemination architecture in order to optimize Army investments in other upgrades such as precision geolocation and upper frequency extension.

Justification: FY08 GWOT funding provides for the purchase of an Air to Air Data Link for 3 GRCS Systems. The Air to Air Data Link allows the GRCS to fly in an extended tether mode of operation. Only one aircraft has to have Line of Sight (LOS) with the GGB on the ground, thus allowing GRCS to cover more of the battlefield.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

3QFY07 Air to Ground signal processing upgrade Contract
2QFY09 Field 1st System Upgrade.
4QFY10 Field 2nd System Upgrade
2QFY11 Field 3rd System Upgrade

NOTE: System installation will occur as units become available between deployments.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										8		8		8							
Outputs											8		8		8						

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		24
Outputs																		24

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 18 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Air to Air Data Link - GWOT [MOD 12] 1-07-444-2007

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Ist Sys Ground NRE & HW/RE					1	3.2													1	3.2
1st Sys Air NRE and HW/RE					8	6.0													8	6.0
1st Sys Training and Doc						0.5														0.5
2nd Sys Ground NRE & HW/RE					1	3.2													1	3.2
2nd Sys Air NRE and HW/RE					8	6.0													8	6.0
2nd Sys Training and Doc						0.5														0.5
3rd Sys Ground NRE & HW/RE					1	3.2													1	3.2
3rd Sys Air NRE and HW/RE					8	6.0													8	6.0
3rd Sys Training and Doc						0.5														0.5
PM In House Spt						0.9														0.9
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits					3	3.0													3	3.0
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	3	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	3.0
Total Procurement Cost		0.0		0.0		33.0		0.0		0.0		0.0		0.0		0.0		0.0		33.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: High Band COMINT (HBC) Subsystem [MOD 13] 1-07-222-2007

MODELS OF SYSTEM AFFECTED: System 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:

Provides enhanced capability to intercept, locate, and exploit high frequency COMINT signals, including critical modern TOS signals. High Band COMINT efforts will include production, integration, and testing of hardware required to provide capability against modern threat signals. Also includes modifications to ground software to enable sensor control and incorporate signal exploitation tools. Design, architecture, and antenna to support High Band COMINT capability will be included within ESA architecture efforts, as well as fielding in conjunction with ESA.

Justification: FY08 funding provides nonrecurring lab integration and test, and hardware purchases. HBC provides greatly enhanced capabilities against OEF/OIF modern threat signals. PM Support, Fielding and installation costs are captured as part of ESA integration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 Contract Award

1QFY10 System Assessment

NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): High Band COMINT (HBC) Subsystem [MOD 13] 1-07-222-2007

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Nonrecurring						14.9														14.9
Recurring					12	29.9													12	29.9
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		44.8		0.0		0.0		0.0		0.0		0.0		0.0		44.8

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Special Signals Subsystem [MOD 15] 1-07-333-2007

MODELS OF SYSTEM AFFECTED: Systems 1,2,3 & 4

DESCRIPTION / JUSTIFICATION:

Provides enhanced capability to intercept special signals, including Low Probability of Intercept (LPI) signals. Special Signal efforts will include production, integration, and testing of hardware required to provide capability against LPI signals. Also includes modification to ground software to enable sensor control and signal exploitation tools. Design, architecture, and antennas to support Special Signal capability will be included within ESA architecture efforts, as well as fielding in conjunction with ESA. Justification: FY08 provides nonrecurring lab integration and test, and hardware purchase for the 1st system. Special signals provides greatly enhanced capability against current threat. PM Support, Fielding and installation costs are captured as part of ESA integration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 Contract Award

NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Special Signals Subsystem [MOD 15] 1-07-333-2007

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Nonrecurring						5.0														5.0
B-Kits					1	1.4													1	1.4
Spare																				
Data																				
Training Equipment																				
Support Equipment																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		6.4		0.0		0.0		0.0		0.0		0.0		0.0		6.4

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	ARL MODS (TIARA) (AZ2050)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				77.3							77.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				77.3							77.3
Initial Spares											
Total Proc Cost				77.3							77.3
Flyaway U/C											
Weapon System Proc U/C											

Description:
Airborne Reconnaissance Low Multifunctional (ARL-M) evolved from two complementary tactical airborne systems ARL-I (Imagery Intelligence (IMINT)), an elecro-optic reconnaissance and surveillance system, and ARL-C (communications intelligence (COMINT)) which provides real-time highly accurate radio intercept and location. The ARL-M program integrates the capabilities of ARL-I and ARL-C into a single system to satisfy requirements identified by validated Combatant Commanders' Statements of Need (SON). The primary sensors are COMINT with precision Direction Finding (DF) capability, IMINT electro-optics for target identification, and classification and multimode capability including wide area search Moving Target Indicator (MTI) and Synthetic Aperture Radar (SAR). ARL provides near real-time tactical airborne COMINT and IMINT collection support to Joint Task Force (JTF) Commanders. ARL is a multi-INT (combined COMINT and IMINT) system designed for forward deployment/force projection in Operations Other Than War (OOTW) to mid intensity conflict environments. ARL also conducts daily JCS Sensitive Reconnaissance Operations, is rapidly self-deployable to support contingency operations, and is the airborne Reconnaissance Surveillance Target Acquisition (RSTA) platform of choice for various non-DOD government agencies such as DEA and FEMA. ARL is configured to allow interoperability with other Army and DOD Intel nodes such as Common Ground Station (CGS) and Tactical Exploitation System (TES). ARL uses UHF and wideband Tactical Common Data Links (TCDL), L-Band, and S-Band for Line of Sight (LOS) datalink communication, and uses UHF SATCOM and DASR for beyond LOS reporting. ARL contributes directly to the success of Army Transformation by serving as an operational platform for verification of new or improved technologies. ARL will continue to support current operations until a future system is fielded.

Justification:

FY 2008 Base Appropriation	$52.3
FY 2008 GWOT Request	$25.0
FY 2008 Total	$77.3

FY08 procures the standardization and modernization of the ARL fleet. ARL has evolved into three different system configurations: ARL-M in CENTCOM (OIF), ARL-C and ARL-M in SOUTHCOM and ARL-Ms in Republic of Korea (ROK). The budget in FY08 initiates the baselining of the fleet by providing a common architecture for sensor management and workstation Man Machine Interface (MMI), downlinks and communications, common sensors across the fleet, and cockpit and safety standardization. This standardization will also address reducing the maintenance burden and operational support costs. Sensors will also be modernized to address emerging threats and requirements. FY08 GWOT request procures 2 training systems, and sensor upgrades to maintain relevancy and OPTEMPO for Task Force ODIN C-12R Air Reconnaissance Multi-Sensor (ARMS) Systems. TF ODIN is a Joint Improvised Explosive Device Defeat Organization

Exhibit P-40, Budget Item Justification Sheet			Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft		P-1 Item Nomenclature ARL MODS (TIARA) (AZ2050)	
Program Elements for Code B Items:	Code:	Other Related Program Elements:	

(JIEDDO)-supported effort that provides IED interdiction capability through persistent aerial surveillance of the OIF Main Supply Routes.

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	ARL MODS (TIARA) (AZ2050)		
Program Elements for Code B Items:		Code:	Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
TF ODIN C-12R ARMS - GWOT											
0-00-00-0000	Operational	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
Radar											
0-00-05-2222	Operational	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	9.1
Imagery											
0-00-05-3333	Operational	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
Workstation Architecture											
1-08-11-0000	Operational	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Safety Upgrades											
9-99-99-0000	Operational	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Upgrade to DAMA Compliant Radio											
3-33-333-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comint Upgrades											
6-66-66-0000	Operational	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	6.3
System Interoperability											
8-88-88-0000	Operational	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	10.3
Joint Tactical Terminal (JTT) Integration											
0-11-00-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARL-C to ARL-M Conversion											
0-00-07-7777	Operational	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
Totals		0.0	0.0	77.3	0.0	0.0	0.0	0.0	0.0	0.0	77.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: TF ODIN C-12R ARMS - GWOT [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: C-12R

DESCRIPTION / JUSTIFICATION:

FY08 GWOT request procures 2 training systems, sensor upgrades and spares to maintain relevancy and OPTEMPO for Task Force ODIN C-12R ARMS systems in support of the Counter Improvised Explosive Device (C-IED) Airborne Intelligence Surveillance Reconnaissance (AISR) mission. ARMS reduces the potential of IED detonation through aerial detection. TF ODIN C12-R ARMS system provides dedicated aerial IED surveillance along OIF Mission Supply Routes (MSRs). This will fill the current training gap for replacement Mission Analyst personnel training after all operational ARMS systems are deployed. This effort will consist of purchasing ground assets capable of receiving Full Motion Video (FMV) in excess of 100 Nautical Miles (NM) and includes data storage devices. Ground assets will also include tactical voice/data VHF/UHF radios. Four complete ground suites will be provided for unique termination sites. All will include up to 4 FMV devices and two Liason Officers (LNO) (tactical communications) suites.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 Contract Award
1QFY09 Begin Installation
1QFY10 Installation Complete

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										1		1									
Outputs												1		1							

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		2
Outputs																		2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): TF ODIN C-12R ARMS - GWOT [MOD 1] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Equipment, Trainers					2	8.0													2	8.0
Equipment, Ground Suites					4	6.0													4	6.0
Test						0.7														0.7
Spares						1.5														1.5
PMO						1.4														1.4
Upgrade NRE						3.7														3.7
Support Equipment																				
Other																				
Interim Contractor Support						0.2														0.2
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					2	3.5													2	3.5
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	2	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.5
Total Procurement Cost		0.0		0.0		25.0		0.0		0.0		0.0		0.0		0.0		0.0		25.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Radar [MOD 2] 0-00-05-2222

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY08 procures mode upgrades for all ARL-M radars. The antenna gimbal assembly and servo assembly and transmitter will be replaced with modern and sustainable subsystems. Radio Frequency components will also be upgraded to take advantage of vanishing vendors/technology improvements. Advanced radar modes will be applied to address capabilities such as super resolution Ground Moving Target Indicators, three dimensional Synthetic Aperture Radar (SAR), SAR/Imagery fusion, complex data exploitation, etc.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Award Contract	1QFY08
Complete S/W Modifications	3QFY08
Test Configuration/Modes	3QFY08
Field Assets	1QFY09

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									5												
Outputs										5											

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		5
Outputs																		5

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 7 months

Contract Dates: FY 2008 - 1QFY07 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - 2QFY08 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Radar [MOD 2] 0-00-05-2222

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Prime Mission Equipment (PME)					5	4.5													5	4.5
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Software						1.4														1.4
PMO Support						0.1														0.1
Spares						0.4														0.4
Test						0.2														0.2
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					5	2.5													5	2.5
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	5	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	2.5
Total Procurement Cost		0.0		0.0		9.1		0.0		0.0		0.0		0.0		0.0		0.0		9.1

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Imagery [MOD 3] 0-00-05-3333

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY08 completes Imagery upgrade for the ARL-M Fleet. The MX-20s will be modified to reflect the current standard (to include the addition of laser illuminators, haze filters, geo-position software, and image processing algorithms). This will standardize all video sensors. All ARLs will be outfitted with a digital pan camera for wide field of view high resolution imaging. The pan cameras will also include a mid wave Infra-red capability for night use. This capability will be used for near real time mapping, BDA, coherent change detection, and spatial/spectral filtering. Keeping the IMINT capability current will provide the ability to exploit any manner of targets expected to be encountered in the GWOT. Quantities below reflect modification kits for the ARL-M fleet.

This upgrade is to support capability requirements in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and the Global War on Terrorism (GWOT).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY08
System Status Review	1QFY08
System Acceptance Test	3QFY08
System Fielding	4QFY08

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs								5													
Outputs									5												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		5
Outputs																		5

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 6 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Imagery [MOD 3] 0-00-05-3333

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Equipment					5	3.3													5	3.3
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Test																				
Software						4.5														4.5
Support Equipment, Spares						2.0														2.0
PMO						0.1														0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					5	1.1													5	1.1
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	5	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	1.1
Total Procurement Cost		0.0		0.0		11.0		0.0		0.0		0.0		0.0		0.0		0.0		11.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Comint Upgrades [MOD 7] 6-66-66-0000

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY08 procures the COMINT upgrade modification that will add a COMINT System to M1, M2, M3, M4, M5, and M6. This includes a complete Acquisition and Direction Finding antenna manifold, Tactical SIGINT Payload system, navigation interfaces, and MMI. This will allow the ARLs to have a standard COMINT capability which can support operations in support of OIF and OEF (GWOT). The system will include a frequency extension and architectural modifications for federated acquisition boxes (to allow rapid threat response). The system will also be configured for remote operations and multi-level security operation. This effort provides for the procurement of 8 systems and the installation and testing of 6 systems. The other 2 sytems will be fielded and tested under the ARL-C to ARL-M upgrade.

This upgrade is to support capability requirements in OIF, OEF, and GWOT.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY08
Long Lead/Software Dev	1QFY09
System Acceptance Test	2QFY09
System Fielding	3QFY09

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										1											
Outputs												1									

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		1
Outputs																		1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months

Contract Dates:	FY 2008 -	FY 2009 -	FY 2010 -
Delivery Dates:	FY 2008 -	FY 2009 -	FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Comint Upgrades [MOD 7] 6-66-66-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
COMINT B-Kits					1	2.0													1	2.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Testing						0.5														0.5
Frequency Extension						2.7														2.7
Govt In-House/Program Mgt						0.1														0.1
Engineering Change Orders																				
Support Equipment (Spares)																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits					1	1.0													1	1.0
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0
Total Procurement Cost		0.0		0.0		6.3		0.0		0.0		0.0		0.0		0.0		0.0		6.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: System Interoperability [MOD 8] 8-88-88-0000

MODELS OF SYSTEM AFFECTED: ARL-C and ARL-M

DESCRIPTION / JUSTIFICATION:

FY08 procures new data links that provide an Air to Ground, Air to Air and Air to Satellite capability. Provides interoperability with other Army and National Sensors. Allows connectivity into Distibuted Common Ground Station - Army (DCGS-A) enterprise.

This upgrade is to support capability requirements in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and the Global War on Terrorism (GWOT).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY08
System Status Review	1QFY08
System Acceptance Test	1QFY09
System Fielding	2QFY09

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						2	2			2											
Outputs							2	2			2										

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		6
Outputs																		6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months

Contract Dates:	FY 2008 -	FY 2009 -	FY 2010 -
Delivery Dates:	FY 2008 -	FY 2009 -	FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): System Interoperability [MOD 8] 8-88-88-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Installation Kits, Nonrecurring																				
Data Links					2	3.0													2	3.0
Installation Kits					4	2.0													4	2.0
Software						1.3														1.3
Test						0.9														0.9
Support Equipment																				
Govt In-House/Program Mgt						0.1														0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					4	3.0													4	3.0
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	4	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	3.0
Total Procurement Cost		0.0		0.0		10.3		0.0		0.0		0.0		0.0		0.0		0.0		10.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: ARL-C to ARL-M Conversion [MOD 10] 0-00-07-7777

MODELS OF SYSTEM AFFECTED: ARL C1 and C2 will convert to ARL M7 and M8

DESCRIPTION / JUSTIFICATION:

FY08 procures the conversion of one ARL-C into a full multi-function aircraft. FY09 will convert the second ARL-C to ARL-M. The conversion will consist of a Triport (three sensor positions) modification to allow for the installation of EO/IR, Digital Camera, or radar payloads (the radar payload will be purchased under the Radar modification); aircraft navigation modification; ASE modification; aircraft power modification; and COMINT antenna modifications. 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.

This upgrade is to support capability requirement in OIF, OEF, and GWOT.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY08
System Status Review	1QFY08
System Acceptance Test	3QFY09
System Fielding	3QFY10

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									1												
Outputs												1									

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		1
Outputs																		1

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): ARL-C to ARL-M Conversion [MOD 10] 0-00-07-7777

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Sensors						3.0														3.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Test																				
Support Equipment																				
Program Management																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits					1	6.0													1	6.0
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	1	6.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	6.0
Total Procurement Cost		0.0		0.0		9.0		0.0		0.0		0.0		0.0		0.0		0.0		9.0

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	AH-64 MODS (AA6605)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		AA6670, AA0951, PE23744 D12 & D17

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				1107.4							1107.4
Less PY Adv Proc				18.9							18.9
Plus CY Adv Proc				41.0							41.0
Net Proc P1				1129.5							1129.5
Initial Spares				3.9							3.9
Total Proc Cost				1133.4							1133.4
Flyaway U/C											
Weapon System Proc U/C											

Description:
Program provides for an Apache Attack Helicopter fleet consisting of 96 AH-64A model and 634 AH-64D model Apache attack helicopters, all equipped with a single main rotor, twin engines, and a tandem cockpit. In addition, 13 Longbow War Replacement Aircraft (WRA)(replenishments for combat attrition) were added to the Longbow budget line in the FY 05 supplemental appropriation, 14 aircraft were added to this budget line in FY 06, 18 aircraft in FY07, and 12 aircraft requested in FY08. Principal aircraft components are: the Modernized Target Acquisition Designation Sight (TADS/Pilot Night Vision Sensor (M-TADS/PNVS)) is housed in a turret on the nose of the AH-64. The Apache aircraft is armed with the Hellfire Antitank Missile, 2.75 inch rockets, and a 30mm gun capable of defeating armor by day or night and in adverse weather. The more advanced Longbow Apache aircraft (AH-64D) incorporates the Longbow weapon system and provides the U.S. Army with a significant improvement in target acquisition and firepower effectiveness, increasing the survivability, lethality, and adverse weather fighting capabilities of the Apache. The AH-64D model is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, and a fire and forget Longbow HELLFIRE missile.

Justification:

FY 2008 Base Appropriation	$715.6 (36 ea Block II Conversion)
FY 2008 GWOT Request	$417.8 (12 ea New Build)
FY 2008 Advance Procurement	$ 41.0
FY 2008 Total	$1,133.4

FY08 GWOT request provides $414.0 million for 12 War Replacement Aircraft, and $3.8 Million for Symbology Display Units (SDU).

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	AH-64 MODS (AA6605)		
Program Elements for Code B Items:		Code:	Other Related Program Elements: AA6670, AA0951, PE23744 D12 & D17

Description		Fiscal Years								
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Apache Sensors Life Extension & Upgrades											
1-94-01-2005		0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4
AH-64A MISC Mods $5M or less (no P3a set)											
OSIP		0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Apache Transformation											
OSIP		0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		0.0	0.0	102.7	0.0	0.0	0.0	0.0	0.0	0.0	102.7
701C Engines (no P3a set)											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Auxiliary Fuel System (IAFS)											
OSIP		0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	7.4
AH-64 R&S & Recap											
OSIP		0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
AH-64D Block III											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Control Radar (FCR)Obsolescence & Integration											
OSIP		0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.8
AH-64 Training Devices											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AH-64 Block II Upgrade											
OSIP		0.0	0.0	508.0	0.0	0.0	0.0	0.0	0.0	0.0	508.0
AH-64 Post Production Organic Support											
OSIP		0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1
AH-64D Longbow Replacement Aircraft - GWOT											
0-00-00-0000		0.0	0.0	414.0	0.0	0.0	0.0	0.0	0.0	0.0	414.0
Aircraft Survivability Product Improvement (ASPI)											
0-00-00-0000		0.0	0.0	69.6	0.0	0.0	0.0	0.0	0.0	0.0	69.6

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	AH-64 MODS (AA6605)		
Program Elements for Code B Items:		Code:	Other Related Program Elements: AA6670, AA0951, PE23744 D12 & D17

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Totals		0.0	0.0	1129.5	0.0	0.0	0.0	0.0	0.0	0.0	1129.5

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Apache Sensors Life Extension & Upgrades [MOD 1] 1-94-01-2005

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Operational, and logistical improvement.

Provides system upgrade through new/updated hardware integration into Lots III thru XIII TADS/PNVS systems. This is a critical stage in the Longbow remanufacturing effort as it produces a single configuration TADS/PNVS to the AH-64D through the end of MY II (501 aircraft) and AH64 Extended Block II Upgrade (120 aircraft). This mod facilitates maintainers' access to TADS/PNVS systems thereby allowing for accelerated application of outstanding ECPs. Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrade/integration of hardware in the TADS/PNVS. Starting in FY09 funding will satisfy emerging requirements for zero timing all Apache Sensors to include TADS/PNVS, MTADS, FCR, RFI, and TEDAC. (Previously titled TADS/PNVS Upgrades.)

Installation costs are included in contract and are not broken out separately.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Initial contract award was Dec 95. Date of first delivery was Jun 96.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						9	9	9	9												
Outputs						9	9	9	9												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		36
Outputs																		36

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 1 months

Contract Dates: FY 2008 - Dec 07 FY 2009 - Dec 08 FY 2010 - Dec 09

Delivery Dates: FY 2008 - Jan 08 FY 2009 - Jan 09 FY 2010 - Jan 10

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Apache Sensors Life Extension & Upgrades [MOD 1] 1-94-01-2005

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					36	7.4													36	7.4
T/P FFP/T&M/CFE/O&A						1.2														1.2
Equipment (GFE)																				
Other						0.8														0.8
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					12														12	
FY 2008 Equip -- Kits					24														24	
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	36	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	36	0.0
Total Procurement Cost		0.0		0.0		9.4		0.0		0.0		0.0		0.0		0.0		0.0		9.4

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Modernized TADS/PNVS (M-TADS) [MOD 4] 1-01-01-0022

MODELS OF SYSTEM AFFECTED: AH-64A Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Modernized Target Acquisition & Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) modification program is the Army initiative to provide 2nd Generation Forward Looking Infrared (SGF) (FLIR) sensors for the Apache fleet. Suite modifications encompass: M-TADS/PNVS Line Replaceable Units (LRU), TADS Electronic Display and Control (TEDAC) assemblies, and the Integrated Helmet Display Sight System (IHDSS) assemblies. The SGF system improves overall pilotage and enhances the pilot's ability to engage targets during night and bad weather. Specifically: increased detection range, enhanced recognition and target identification; higher resolution and sensitivity for safety and pilotage performance (especially in adverse weather); better identifying of friend/foe during hostilities; and increased reliability and reduction in O&S costs. The complementary TEDAC and IHDSS upgrade reduces operating costs, increases cockpit space, and exploits the expanded capability of the M-TADS/PNVS. M-TADS installation costs are not separately priced. Other Support procures TDA Salaries, In-house Matrix and Contractor Support, TEDAC, and IHADSS. Other Support are not part of the M-TADS contract. Output schedule planning is based on aircraft availability and deployment schedules. Single-mode Symbology Display Units (SDU) are to be purchased for five 24 aircraft battalions as a bridge strategy towards imaged fused sensors. SDU funding initiates pre-production requirements for the dual-mode SDU capability enhancement.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Oct 00 -- M-TADS/PNVS EMD/SDD contract award
Jan 01 -- Preliminary Design Review (PDR); Aug 01 -- Critical Design Review (CDR)
Dec 03 -- M-TADS/PNVS Production Contract Award
June 05 -- M-TADS/PNVS FUE
Feb 07 -- MTADS/PNVS Lot 4 Production Contract Award (Estimated)

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						14	15	14	14												
Outputs						32	33	32	33												

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		57
Outputs																		130

METHOD OF IMPLEMENTATION: Contract Lot 4 ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 23 months

Contract Dates:	FY 2008 - Feb 07	FY 2009 - Feb 08	FY 2010 - Feb 09
Delivery Dates:	FY 2008 - Dec 08	FY 2009 - Dec 09	FY 2010 - Dec 10

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Modernized TADS/PNVS (M-TADS) [MOD 4] 1-01-01-0022

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
SDU					120	3.8													120	3.8
Equipment					57	93.9													57	93.9
Equipment, Nonrecurring																				
TEDAC/IHDSS																				
Other Support						5.0														5.0
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					106														106	
FY 2008 Equip -- Kits					24														24	
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- 0 Kits																				
Total Installment	0	0.0	0	0.0	130	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	130	0.0
Total Procurement Cost		0.0		0.0		102.7		0.0		0.0		0.0		0.0		0.0		0.0		102.7

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Internal Auxiliary Fuel System (IAFS) [MOD 6] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

FY08-10 funding will procure 191 Internal Auxiliary Fuel System (IAFS) Combo-paks (B-Kits), A-kit installation (FY08 only, 48 each), and IAFS support equipment (including one battalion's of spares). This program meets the requirements established by Task Force Hawk, as approved for incorporation by the VCSA. The IAFS is ballistically tolerant, crashworthy, self sealing and increases aircraft mission endurance by increasing fuel capacity by 100 gallons. During ongoing OIF/OEF missions the AH-64, in the Quick Reaction Force (QRF) and in support of Close Combat operations, is required to remain on station longer to protect ground troops with immediate suppression by the 30mm weapon. The additional capacity provided by IAFS increases mission time by 30-45 minutes and enables the Apache aircraft to remain in the fight longer and reduce Forward Area Refuel Point (FARP) iterations. The Combo-pak also has a 246 round 30mm capacity which meets critical operational needs associated with current operations in OIF/OEF as well as future contingencies. IAFS is designated as a threshold Mission Equipment Package (MEP) requirement in support of OEF/OIF FY08-10 procured B-kits will be installed by operating units. The total IAFS program will procure 746 A Kits and 718 B Kits which includes spares. (Prior Apache funding lines, AA6670 SSN, procured 698 A Kits and 327 B Kits.)

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FFP Contract will be used for all IAFS procurements, PY08-FY10

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						12	12	12	12												
Outputs						12	12	12	12												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		48
Outputs																		48

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 9 months

Contract Dates: FY 2008 - Nov 07 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Jul 08 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Internal Auxiliary Fuel System (IAFS) [MOD 6] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
A Kits																				
B Kits (No Installation)					30	7.0													30	7.0
Support Equipment						0.1														0.1
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					48	0.3													48	0.3
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	48	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	48	0.3
Total Procurement Cost		0.0		0.0		7.4		0.0		0.0		0.0		0.0		0.0		0.0		7.4

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: AH-64 Block II Upgrade [MOD 11] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funding for the AH-64 Extended Block II Upgrade supports the revised Modernized Strategy for the Apache Helicopter which was approved by the VCSA 1 Nov 2004. The plan allows for the remanufacture of an additional 120 AH-64A aircraft to the AH-64D (Lots 11-14) configuration. The schedule generates greater attack helicopter combat power for the Warfight sooner and accelerates Reserve Component modernization by cascading Longbow Block I aircraft directly to USAR and ARNG Apache battalions. By modernizing additional AH-64As, the Army is acknowledging concerns of OSD and Congress by mapping out a strategy for the entire Apache fleet. Other Support procures TDA Salaries, In-house Matrix and Contractor Support for Apache Project Manager's Office. Long lead procurement is identified in P-10 exhibits. Procurement is thru a single year FFP contract, FY 07, with options (FY08-09).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award Dec 2006 (FY 07)
Contract Options (FY 08-09)

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						9	9	9	9												
Outputs						6	10	10	10												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		36
Outputs																		36

METHOD OF IMPLEMENTATION: Firm Fixed Price ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 10 months
Contract

Contract Dates:	FY 2008 - Dec 08	FY 2009 - Dec 09	FY 2010 - Dec 10
Delivery Dates:	FY 2008 - Jan 09	FY 2009 - Jan 10	FY 2010 - Jan 11

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): AH-64 Block II Upgrade [MOD 11] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Kit Quantity					36														36	
Equipment						432.1														432.1
Advance Procurement (P-10)						41.0														41.0
Other Support						34.9														34.9
Training																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		508.0		0.0		0.0		0.0		0.0		0.0		0.0		508.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: AH-64D Longbow Replacement Aircraft - GWOT [MOD 13] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

FY08 GWOT funding procures twelve Longbow WRA (with Fire Control Radar, Modernized TADS/PNVS, and Aircraft Survivability Equipment to include common missile warning system) to replace those helicopters attrited during Operation Iraqi Freedom and Operation Enduring Freedom (OIF/OEF). Essentially, these 30 replacement aircraft will be the same configuration as those produced under the remanufacturing contract, but will be fitted with a new fuselage and materials rather than being remanufactured. WRA fills helps the production gap between Extended Block II (EB2) and the start of Block III. (Thirteen additional WRA are being procured thru a FY05 Supplemental -- funding was housed within the SSN AA6670 Longbow Apache P Forms.)

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Boeing submittal of Proposal, January 2007
Proposed contract award, March 2007

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						4	2														
Outputs									2												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		6
Outputs																		2

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 27 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Sept 08 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): AH-64D Longbow Replacement Aircraft - GWOT [MOD 13] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					12	414.0													12	414.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					2														2	
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total Procurement Cost		0.0		0.0		414.0		0.0		0.0		0.0		0.0		0.0		0.0		414.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Aircraft Survivability Product Improvement (ASPI) [MOD 14] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

Funding would be used to procure improved IR/Thermal suppressor system enhancements for Apache aircraft (10 Battalion sets, toward a fleet requirement of 21). IR suppression modifications would reduce IR thermal signature from hot metal components (e.g., engine, exhaust, de-rotation unit, nose gear box, transmission bay door, chain-gun turret, etc.). This modification will enable the Apache aircraft to be much less susceptible to IR signature threat weapons. This initiative significantly improves war-fighter and aircraft survivability in combat operations. Mod installation costs will be included in the single-year, FY 08 contract and are not separately identifiable.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY 08 Contract Award -- Nov 07

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						60	60	60	60												
Outputs							60	60	60												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		240
Outputs																		180

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 2 months

Contract Dates: FY 2008 - Nov 07 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Jan 08 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Aircraft Survivability Product Improvement (ASPI) [MOD 14] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					240	69.6													240	69.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other (Test & Provisioning)																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits					180														180	
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	180	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	180	0.0
Total Procurement Cost		0.0		0.0		69.6		0.0		0.0		0.0		0.0		0.0		0.0		69.6

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 2 / Modification of aircraft	CH-47 CARGO HELICOPTER MODS (AA0252)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: RDTE PE 0203744A

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				1222.5							1222.5
Less PY Adv Proc				36.6							36.6
Plus CY Adv Proc				39.2							39.2
Net Proc P1				1225.1							1225.1
Initial Spares				2.0							2.0
Total Proc Cost				1227.1							1227.1
Flyaway U/C											
Weapon System Proc U/C											

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 War On Terrorism 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 heavy lift helicopter until at least the 2025 timeframe. The CH-47F recapitalization program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. Key modifications integrate a new-machined airframe, an upgraded T55-GA-714A engine to restore performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital AFCS, and an Extended Range Fuel System II for self-deployment missions. The CH-47F program extends the Army Chinook fleet useful life 20 years incorporating reliability and maintainability improvements including airframe tuning for vibration reduction, corrosion protection, digital source collectors, and an automated maintenance program with a 400-hour phase interval. The recapitalization program rebuilds and upgrades 23 CH-47Ds to CH-47F configuration. In addition to recapitalization, a new build program will add 21 New Chinooks to the inventory; 17 aircraft to accelerate the CH-47F program and 4 aircraft for projected combat losses. These programs are funded to meet the Army Aviation Transformation Plan full requirement for Chinook aircraft.

Justification:

2008 Base Appropriation:	$540.7
FY 2008 GWOT Request:	$635.6
FY 2008 GWOT Cost Adjustment Request:	$9.6
FY 2008 Advance Procurement:	$39.2
FY 2008 Total:	$1,225.1

FY 2008 Base budget in the amount of $540.7 million will procure 23 aircraft, safety and operation modification to the CH-47D fleet and trainers to maintain the latest configuration. Safety and operation modification, to include component recapitalization, are planned for all fielded aircraft. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications are Engine Fire Extinguisher, Engine Filtration System, Aviation Combined Arms tactical Trainer, Transportable Flight Proficiency Simulators and conversion of 23 CH-47Ds to CH-47Fs, Ballistics Protection Systems, Aircraft Component Parts-marking, Combining Transmission Fan Drive Shaft, Electric Pump Utility system Hydraulic

Exhibit P-40, Budget Item Justification Sheet			Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft		P-1 Item Nomenclature CH-47 CARGO HELICOPTER MODS (AA0252)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: RDTE PE 0203744A	

Accumulator (EPUSHA), Crashworthy Seats, Adjustable Pitch Change Link, Aircraft Pylon Work Platform, Special Test Sets, Kits, and Outfits, M240 Window Door gunner Mount, and the T55 Electronic Control Unit (ECU), T55 P3 Check Value to equip new Chinook units forming under the Army's Aviation Transformation Plan. FY2008 Advanced Procurement funding procures long lead time parts and materials required to preserve the production delivery schedule.

FY08 GWOT request in the amount of $635.6 million will procure 21 CH-47F new build aircraft; 4 aircraft will replace those projected for combat loss and 17 aircraft will accelerate the CH-47F New Build Program. Acceleration is necessary to reduce the severe impact on readiness caused by the current remanufacture induction schedule.

FY 2008 Global War on Terrorism Cost Adjustment in the amount of $9.6 million will procure 59 Helicopter Internal Cargo Handling Systems (HICHS) for Chinook Helicopters in the OIF and OEF theaters. HICHS is a cargo handling system that provides a low-friction, load/unload conveyor ramp. It also includes conveyors for moving cargo within the aircraft. Almost all current missions in theater involve moving cargo. This high volume of cargo moved has caused the current sets to be beyond repair. This system supports the expeditious movement of cargo within the current theater of operation interfacing with incoming cargo being delivered by Airforce 463L pallets. Additionally, the HICHS can also accommodate standard forklift pallets.

Exhibit P-40M, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	CH-47 CARGO HELICOPTER MODS (AA0252)		
Program Elements for Code B Items:		Code:	Other Related Program Elements: RDTE PE 0203744A

Description		Fiscal Years								
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Engine Filtration System											
1-93-01-0807	Operational	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Engine Upgrade to T55-GA-714A Configuration											
1-96-01-0828	Operational	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	14.4
CH-47F											
0-00-00-0000	Operational	0.0	0.0	1147.0	0.0	0.0	0.0	0.0	0.0	0.0	1147.0
Helicopter Internal Cargo Handling System (GWOT)											
0-00-00-0000		0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	9.6
M240 Window/Door Gun Mount											
0-00-00-0000		0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Engine Fire Extinguisher (Halon Replacement)											
0-00-00-0000	Operational	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Transformation Sets, Kits and Outfits											
0-00-00-0000	Safety	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7
Maintenance Training Devices (MTD)											
0-00-00-0000		0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5.3
Aircraft Component Parts-marking											
0-00-00-0000		0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	8.8
Ballistic Protection System (BPS)											
0-00-00-0000		0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Aviation Training Devices (AVCATT)											
0-00-00-0000		0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	4.7
CH-47 MISC Mods $5M or Less											
0-00-00-0000	Operational	0.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	10.1
Totals		0.0	0.0	1225.1	0.0	0.0	0.0	0.0	0.0	0.0	1225.1

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Engine Upgrade to T55-GA-714A Configuration [MOD 2] 1-96-01-0828

MODELS OF SYSTEM AFFECTED: CH-47D CHINOOK and Trainers

DESCRIPTION / JUSTIFICATION:

Type of Improvement - Improved Operational Capability. This modification will upgrade the T55-L-712 engine to T55-GA-714A configuration increasing power to allow the aircraft to carry its primary payloads under high altitude/temperatures. The CH-47D as configured does not meet its existing 1975 Required Operational Capability (ROC), i.e. 15,000 lbs. payload for 30 Nautical Miles radius at 4,000 feet/95 degrees Fahrenheit. The addition of numerous engineering changes to provide safety, the latest in operational technology, and improved communications has increased the empty weight of the aircraft. Upgrade of the T55-L-712 engine to T55-GA-714A configuration will meet the required operational capability. The program consists of: New Engines - two per aircraft plus spares, Engine Fielding Kits - two per aircraft, Airframe Mod Kits - one per aircraft, the installation of the Airframe Kit and Converted Engines on the aircraft, and Logistic Support (training, fielding support).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Low Rate Initial Production Contract Award - Dec 97
First Production Hardware Delivery - Aug 99
Verification/Testing - Sep 99
Engine Fielding Initiated - Nov 99

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						17	15														
Outputs						17	15														

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		32
Outputs																		32

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 18 months

Contract Dates:	FY 2008 - Jan 06	FY 2009 - Jan 07	FY 2010 - Jan 08
Delivery Dates:	FY 2008 - Jul 07	FY 2009 - Jul 08	FY 2010 - Jul 09

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Engine Upgrade to T55-GA-714A Configuration [MOD 2] 1-96-01-0828

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
New Engines																				
T55 Engine Control Unit Prog (ECU)					56	6.1													56	6.1
P3 Check Value					139	2.4													139	2.4
PM Admin Support						0.5														0.5
Logistics						1.5														1.5
--																				
--																				
--																				
--																				
--																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits					9	0.6													9	0.6
FY 2007 Equip -- Kits					23	3.3													23	3.3
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	32	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	32	3.9
Total Procurement Cost		0.0		0.0		14.4		0.0		0.0		0.0		0.0		0.0		0.0		14.4

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: CH-47F [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION / JUSTIFICATION:

As the Army's only heavy-lift helicopter capable of intra-theater cargo movement of payloads up to 16,000 lb in a high, hot environment, the CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The FY08 budget line for the CH-47F program procures 44 aircraft out of the Army Aviation Transformation Chinook total requirement of 513 aircraft. The total requirement of 44 aircraft consists of 21 new build CH-47Fs; 4 aircraft will replace those projected for combat loss, 17 aircraft will accelerate the CH-47Fs new build program, and 23 upgrades or rebuilds. The CH-47F program installs a new digital cockpit, incorporates all new airframe components, and modifies the aircraft to reduce vibration. The CH-47F Common Avionics Architecture System (CAAS) digital cockpit will provide future growth potential to meet the Net-Ready Key Performance requirements and include a digital data bus that permits installation of enhanced communications and navigation equipment for improved situational awareness, mission performance, and survivability. 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. The 4 additional new build CH-47Fs requested in the FY08 GWOT request will replace aircrafts lost during war efforts. Seventeen additional new build aircraft will be funded with FY08 GWOT request funds to accelerate the CH-47 Program.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

LRIP I Contract Award - Dec 02
MS III Production Decision - Nov 04
FRP Contract Award - Dec 04

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 12 months

Contract Dates:	FY 2008 - Dec 05	FY 2009 - Mar 07	FY 2010 - Jun 08
Delivery Dates:	FY 2008 - Dec 06	FY 2009 - Mar 08	FY 2010 - Jun 09

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): CH-47F [MOD 3] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Recurring Production (New Build)																				
Recurring Production (GWOT New Build)					21	635.6													21	635.6
Recurring Production (Mods)					23	447.2													23	447.2
Other Flyaway						30.2														30.2
Training						9.1														9.1
Other Support						19.5														19.5
Support Equipment						5.4														5.4
--																				
--																				
--																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		1147.0		0.0		0.0		0.0		0.0		0.0		0.0		1147.0

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Helicopter Internal Cargo Handling System (GWOT) [MOD 4] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D, F & G

DESCRIPTION / JUSTIFICATION:

This effort will procure 59 Helicopter Internal Cargo Handling System (HICHS) for helicopters in the OIF and OEF theaters. HICHS is a cargo handling system that provides a low-friction, load/unload conveyor ramp. It also includes conveyors for moving cargo within the aircraft. Almost all current missions in theater involve moving cargo. Because of the high volumes of cargo being moved the sets are beyond repair. This system supports the expeditious movement of cargo within the current theater of operation interfacing with incoming cargo being delivered by Airforce 463L pallets. Additionally, the HICHS can also accommodate standard forklift pallets.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2008 - FY08 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY08 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Helicopter Internal Cargo Handling System (GWOT) [MOD 4] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					59	9.6													59	9.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		9.6		0.0		0.0		0.0		0.0		0.0		0.0		9.6

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Engine Fire Extinguisher (Halon Replacement) [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Montreal Protocol agreement banned the production of ozone depleting chemicals. Halon 1301, one of the banned chemicals, is currently being used by Army Aviation as the fire suppression system in engine nacelles. The Department of Defense has stockpiled Halon and Halon usage is continuing under a waiver. An environmentally friendly alternative is to be developed, tested, qualified, and installed on all aircraft. This effort is to replace the banned Halon fire extinguishers in the engine nacelles with an environmentally friendly alternative. Incorporation of alternative chemical to replace Halon 1301 is required in order to meet the readiness standard set for each aviation unit.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						21	21	21	21												
Outputs						21	21	21	21												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		84
Outputs																		84

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 6 months

Contract Dates:	FY 2008 - Apr 06	FY 2009 - Jan 07	FY 2010 - Jan 08
Delivery Dates:	FY 2008 - Oct 06	FY 2009 - Jun 07	FY 2010 - Jun 08

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Engine Fire Extinguisher (Halon Replacement) [MOD 6] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
A-Kit Quantity					85	2.5													85	2.5
Engineering Support																				
Logistics						0.2														0.2
PM Support						0.1														0.1
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits					85	5.5													85	5.5
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	85	5.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	85	5.5
Total Procurement Cost		0.0		0.0		8.3		0.0		0.0		0.0		0.0		0.0		0.0		8.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Transformation Sets, Kits and Outfits [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D CHINOOK, MH-47E

DESCRIPTION / JUSTIFICATION:

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.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 7 months

Contract Dates:	FY 2008 - Mar 06	FY 2009 - Mar 07	FY 2010 - Mar 08
Delivery Dates:	FY 2008 - Oct 06	FY 2009 - Oct 07	FY 2010 - Oct 08

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Transformation Sets, Kits and Outfits [MOD 7] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
SKOs					3	7.5													3	7.5
PM Support						0.2														0.2
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		7.7		0.0		0.0		0.0		0.0		0.0		0.0		7.7

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Maintenance Training Devices (MTD) [MOD 8] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Maintenance Training Devices (MTD) 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 D and F models, many of these trainers will be required for CH-47F as it transitions.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - Jan 08 FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - Jan 09 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Maintenance Training Devices (MTD) [MOD 8] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
MTD Upgrades					2	3.1													2	3.1
Engineering Support						2.1														2.1
Logistics						0.1														0.1
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		5.3		0.0		0.0		0.0		0.0		0.0		0.0		5.3

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE: Aircraft Component Parts-marking [MOD 9] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

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 parts marking facilities to allow the Cargo Helicopter PMO to effectively manage the CH-47 Fleet.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2008 - FY 2009 - FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION Date: September 2007

MODIFICATION TITLE (cont): Aircraft Component Parts-marking [MOD 9] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Component Markings						8.8														8.8
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		8.8		0.0		0.0		0.0		0.0		0.0		0.0		8.8

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	ASE INFRARED CM (AZ3507)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				572.9							572.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				572.9							572.9
Initial Spares											
Total Proc Cost				572.9							572.9
Flyaway U/C											
Weapon System Proc U/C											

Description:

The Advanced Threat Infrared Countermeasure (ATIRCM) is a US Army program to develop, test, and integrate defensive infrared (IR) countermeasures capabilities into existing, current generation host platforms for more effective protection against a greater number of IR guided missile threats than afforded by currently fielded IR countermeasures. The US Army operational requirements concept for IR countermeasure systems is known as the Suite of Integrated Infrared Countermeasures (SIIRCM). It 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 ATIRCM, Common Missile Warning System (CMWS) Program. The ATIRCM/CMWS, a subsystem to a host aircraft, is an integrated ultraviolet (UV) missile warning system and an IR Lamp/Laser Jamming and Improved Countermeasure Dispenser (ICMD).

The CMWS also functions as a stand-alone system with the capability to detect missiles and provide audible and visual warnings to the pilot(s); and, when installed with the ICMD, activates expendables to provide a degree of protection. ATIRCM/CMWS is the key IR survivability system for current and future Army aircraft.

The A-Kit is the modification hardware, wiring harness, cable, etc., necessary to install and interface the ATIRCM/CMWS Mission Kit to each platform. The A-Kit ensures the Mission Kit is functionally and physically operational with the host platform.

The Mission Kit consists of the ATIRCM/CMWS which performs the missile detection, false alarm rejection, and missile declaration functions of the system. The Electronic Control Unit (ECU) of the CMWS sends a missile alert signal to on-board avionics and other Aircraft Survivability Equipment (ASE) such as expendable flare dispensers. Threat missiles detected by the CMWS are handed over to the ATIRCM.

Justification:

FY 2008 Base Appropriation:	$365.5
FY 2008 GWOT Request:	$0.0
FY 2008 GWOT Cost Adjustment Request:	$207.4
FY 2008 Total:	$572.9

FY 2008 Base Budget funds 410 A-Kits, 305 CMWS and 24 ATIRCM hardware sets.

FY 2008 Global War on Terrorism Cost Adjustment funds the CMWS 5th Sensor for a mixed fleet of AH-64, CH-47, UH-60, and Fixed Wing aircraft. It also continues the procurement of the

Exhibit P-40, Budget Item Justification Sheet			Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		P-1 Item Nomenclature ASE INFRARED CM (AZ3507)	
Program Elements for Code B Items:	Code:	Other Related Program Elements:	

Aircraft Survivabilty Product Improvement (ASPI) program which provides IR suppression systems designed to radically lower the heat signature of helicopters through passive means.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
A Kit Recurring	B							49588	410	121			
A Kit Installation								32446					
A Kit ATIRCM Retrofits								2278					
CMWS Recurring Hardware	B							88175	305	289			
ATIRCM Recurring Hardware	B							30756	24	1282			
ATIRCM B-Kit Nonrecurring								32754					
A-Kit Integration								31153					
ICS/Spt Eq/Trans/Training								19431					
In House/Matrix Spt								14977					
Program Management								12569					
Other Support Items								19775					
CTR SEPM/ECO/SW Spt								31570					
Total Baseline								**365472**					
GWOT Cost Adjustment													
CMWS 5th Sensor								97435					
AVR 2B Procurement								15000					
ASPI (IR Suppression) CH47, UH60, AH64								95000					
Total GWOT Cost Adjustment								**207435**					
Total:								**572907**					

Exhibit P-5a, Budget Procurement History and Planning

Date: September 2007

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		ASE INFRARED CM (AZ3507)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A Kit Recurring										
FY 2008	Various Various	CPFF	Various	Dec 07	May 08	410	121	Yes		
CMWS Recurring Hardware										
FY 2008	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft Monmouth, NJ	Dec 07	Aug 08	305	289	Yes		
ATIRCM Recurring Hardware										
FY 2008	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft Monmouth, NJ	Jan 08	Apr 09	24	1282			

REMARKS:

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
September 2007

COST ELEMENTS

MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08 / Calendar Year 08												Fiscal Year 09 / Calendar Year 09									Later
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit Recurring																													
1	FY 08	A	410	0	410			A					34	34	34	34	34	34	34	34	34	34	35	35						0
CMWS Recurring Hardware																													
2	FY 08	A	305	0	305			A								26	26	26	26	26	26	25	25	25	25	25	24			0
ATIRCM Recurring Hardware																													
3	FY 08	A	24	0	24									A									2	2	2	2	2	2	12
Total			739		739								34	34	34	60	60	60	60	60	60	59	60	62	27	27	26	2	2	12
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Various, Various	18	200	800	
2	BAE Systems (CMWS), Nashua, NH	48	200	480	
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	3	3	6
	Reorder	0	3	3	6
2	Initial	0	3	5	8
	Reorder	0	3	5	8
3	Initial	0	4	10	14
	Reorder	0	1	12	13
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
September 2007

COST ELEMENTS

MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10 / Calendar Year 10 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 11 / Calendar Year 10 OCT	NOV	DEC	Calendar Year 11 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Later
A Kit Recurring																														
1	FY 08	A	410	410																										0
CMWS Recurring Hardware																														
2	FY 08	A	305	305																										0
ATIRCM Recurring Hardware																														
3	FY 08	A	24	12	12	2	2	2	2	2	2																			0
Total			739	727	12	2	2	2	2	2	2																			
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Various, Various	18	200	800	
2	BAE Systems (CMWS), Nashua, NH	48	200	480	
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	3	3	6
	Reorder	0	3	3	6
2	Initial	0	3	5	8
	Reorder	0	3	5	8
3	Initial	0	4	10	14
	Reorder	0	1	12	13
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 4 / Support equipment and facilities	COMMON GROUND EQUIPMENT (AZ3100)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 63801/B32 63801/B33

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				90.6							90.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				90.6							90.6
Initial Spares											
Total Proc Cost				90.6							90.6
Flyaway U/C											
Weapon System Proc U/C											

Description:
Provides various types of ground support equipment.

Justification:

FY 2008 Base Appropriation:	$80.2
FY 2008 GWOT Request:	$10.0
FY 2008 GWOT Cost Adjustment Request:	$.4
FY 2008 Total:	$90.6

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 4 / Support equipment and facilities	AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 63801/B32 63801/B33

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				90.6							90.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				90.6							90.6
Initial Spares											
Total Proc Cost				90.6							90.6
Flyaway U/C											
Weapon System Proc U/C											

Description:
Aviation Ground Support Equipment (AGSE) is transitioning away from the role of Sustainment to one of Total Life Cycle Management. AGSE will develop, acquire, field, and sustain aviation equipment within cost, schedule, and performance parameters, allowing the Joint Warfighter to carry out peacetime and wartime missions. Systems managed by AGSE through its Life Cycle include Aviation Vibration Analyzer (AVA), Aviation Intermediate Maintenance (AVIM) Shop Set Complex, Battle Damage Assessment and Repair (BDAR) System, Aviation Ground Power Unit (AGPU), Generic Aircraft Nitrogen Generator (GANG), Standard Aircraft Towing System (SATS), Shop Equipment Contact Maintenance (SECM), Nondestructive Test Equipment (NDTE), Digital Aircraft Weighing Scales (DAWS), Unit Maintenance Aerial Recovery Kit (UMARK), Aviation Maintenance Fall Protection Platforms and Aviation - Sets, Kits, Outfits and Tools (A-SKOTS). These products provide the finest materiel and support solutions to Army Aviation

Justification:
FY 08 baseline appropriation is procuring ground support equipment which will support and sustain the operational readiness of all Army aviation field units which are operating AH-64, UH-60, CH-47, OH-58D and other Army aircraft. AGSE also provides a means to correct safety-of-flight discrepancies which endanger both life and property. Various pieces of AGSE equipment are being procured in FY 08. The Battle Damage Assessment Repair (BDAR) system will provide aviation maintenance organizations an expeditious means for combat damage assessment, deferment, and/or rapid repair for all Army helicopters. Aviation Intermediate Maintenance (AVIM) Shop Set complexes provide a transportable aviation intermediate and limited depot level maintenance capability in force projection or contingency operations. Aviation Ground Power Units (AGPUs) will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for electrical servicing of the Apache Longbow (AH-64D). The Generic Aircraft Nitrogen Generator (GANG) provides 95.5% pure nitrogen to service/adjust aircraft accumulators, main rotor blades, landing gear struts and tires and also refills nitrogen bottles used at all levels of aviation maintenance. The Non-Destructive Test Equipment (NDTE) is a set of four electronic test instruments that inspect aircraft components and structures for defects, corrosion, or the presence of foreign objects without complete disassembly or removal of component from the aircraft. The Standard Aircraft Towing System (SATS) will be used to reposition fixed-wing and rotary-wing aircraft as well as AGSE in-and-around hangars and maintenance areas and will standardize the Army's aviation tug fleet along with reducing the logistics footprint through the use of standardized repair parts. The SATS provide a multipurpose support vehicle to complement AGSE modularization concept. Aviation - Sets, Kits, Outfits and Tools (A-SKOTS) provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft. The Shop Equipment Contact Maintenance (SECM) will provide the combat maintainer a contact maintenance vehicle with containerized tools/spares/modules for repair capability at the aircraft in support of the Army's Two Level Maintenance Concept.

Exhibit P-40, Budget Item Justification Sheet		Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Item Nomenclature AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 63801/B32 63801/B33

The FY 08 Global War on Terrorism (GWOT) request will provide funds to procure additional Battle Damage Assessment Repair (BDAR) systems which will provide aviation maintenance organizations an expeditious means for combat damage assessment, deferment, and/or rapid repair for all Army helicopters; procure additional Aviation Ground Power Units (AGPUs) that will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for electrical servicing of the Apache Longbow (AH-64D). Funds will also procure additional Generic Aircraft Nitrogen Generators (GANG) which provides 95.5% pure nitrogen to service/adjust aircraft accumulators, main rotor blades, landing gear struts and tires and also refills nitrogen bottles used at all levels of aviation maintenance.

FY 2008 Global War on Terrorism Cost Adjustment funds acceleration of AGPUs into the Service Life Extension Program (SLEP). The AGPU SLEP Program provides the capability of meeting Army helicopter servicing requirements into the next decade.

FY 2008 Base Appropriation:	$80.2
FY 2008 GWOT Request:	$10.0
FY 2008 GWOT Cost Adjustment Request:	$0.4
FY 2008 Total:	$90.6

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
FY 08 Baseline													
Nondestructive Test Equipment (NDTE)								6540					
Aviation Ground Power Unit (AGPU)								13200					
Battle Damage Assess Repair Kit (BDAR)								5515					
Standard Aircraft Towing System (SATS)								17811					
Shop Equipment Contact Maint (SECM)								762					
Avn-Sets, Kits, Outfits, Tools (A-SKOT)								11462					
Avn Interm Maint (AVIM) Shop Set Complex								16475					
Generic Aircraft Nitrog Generator (GANG)								4250					
Program Management Support								3931					
Fielding								45					
Test and Eval (T&E)								230					
FY 08 Baseline Total								**80221**					
FY 08 Main Supplemental													
Aviation Ground Power Unit (AGPU)								5100					
Battle Damage Assess Repair Kit (BDAR)								4300					
Generic Aircraft Nitrog Generator (GANG)								600					
FY 08 Main Supplemental Total								**10000**					
FY 08 Amended GWOT Supplemental													
Aviation Ground Power Unit - SLEP								356					
FY 08 Amended GWOT Total								**356**					
Total:								**90577**					

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIRCREW INTEGRATED SYSTEMS (AZ3110)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: RDTE 0603801 (DB45), 0604801 (DC45), 0603827, 0604601

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				52.9							52.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				52.9							52.9
Initial Spares											
Total Proc Cost				52.9							52.9
Flyaway U/C											
Weapon System Proc U/C											

Description:

The Air Warrior system provides improved safety and survivability as well as enhancing the war fighting effectiveness of Army aircrews. Air Warrior effectively integrates the Soldier with all Army rotary wing aircraft including the AH-64A/D Apache, UH/HH-60A/L/M Blackhawk, OH-58D Kiowa Warrior, and CH-47D/F Chinook and provides the flexibility to tailor one modular system to specific missions, threats, and aircraft platforms. Air Warrior is an integrated system-level approach to aviation life support equipment and provides improved aircrew safety, survivability and human performance. It includes the survival and personal protective equipment used by the Soldier during flight and post-crash survival, evasion, resistance and escape. Air Warrior Block 1 systems include the HGU-56/P integrated helmet system, the Air Warrior integrated survival equipment system (ensemble), improved ballistic protection and microclimate cooling. The HGU-56/P helmet system includes laser eye protection equipment and sound attenuation devices. The Air Warrior Block 1 system offers weight and bulk reduction over previously fielded equipment, and includes extraction capability for a downed aviator, standardized placement for communication, survivability, and first aid equipment, microclimate cooling, ballistic protection and over-water survival gear. Air Warrior also includes airframe integration (A Kit) efforts and microclimate cooling (B Kit) hardware on the AH-64D Apache, UH/HH-60A/L Blackhawk, OH-58D Kiowa Warrior, and CH-47D Chinook helicopters. Air Warrior Block 1 enables the Army Aviation Warfighter to meet the approved Operational Requirements Document Key Performance Parameter mission length of 5.3 hours while wearing full chemical/biological protective gear. The Air Warrior acquisition strategy adds new capabilities and spiral improvements to current products incrementally. Block 2 introduces the Electronic Data Manager (EDM), a lightweight and portable touch screen computer that provides off-aircraft mission planning, moving map, and interfaces with Blue Force Tracking two-way situational awareness capabilities in the form of a digital kneeboard. Block 2 also adds the Aircraft Wireless Intercom System (AWIS) for CH-47 and UH-60 aircrews, enhancing the safety and operational requirements of current tethered systems. The Cockpit Air Bag System (CABS) is a supplemental restraint system that reduces aviator deaths and injuries caused by body and head impact with cockpit structures in an otherwise survivable crash.

Justification:

FY 2008 Base Appropriation	$42.7 Million
FY 2008 GWOT Request	$10.2 Million
FY 2008 Total	$52.9 Million

GWOT funding for the modification, integration, procurement, and fielding of Personnel Recovery Support Equipment (PRSE) Classified components onto its operational platform and provides the Army significantly enhanced ability to respond to occurances of isolated, missing, detained or captured Soldiers in a timely and effective manner.

Exhibit P-40, Budget Item Justification Sheet		Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Item Nomenclature AIRCREW INTEGRATED SYSTEMS (AZ3110)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: RDTE 0603801 (DB45), 0604801 (DC45), 0603827, 0604601

GWOT funding for the Electronic Data Manager provides a touch screen tactical computer system digital kneeboard worn by tactical aircrews of deploying Combat Aviation Brigades in time to meet DA mandidated completion dates and to meet the transformation to the Modular Force schedule and insuring the aircrews are provided required situational awareness to survive in a combat environment during near term OIF/OEF deployments.

GWOT funding for the Microclimate Cooling System (MCS) provides tactical aircrews of deploying Combat Aviation Brigades aircrew members with the capability to effectively conduct combat operations for a full mission duration while conducting operations in extreme temperature environments or while wearing full Mission Oriented Protective Posture (MOPP) protective equipment in time to meet DA mandidated completion dates and to meet the transformation to the Modular Force schedule.

GWOT funding for the Clothing and Individual Equipment (CIE) provides the tactical aircrews of deploying Combat Aviation Brigades with a modular, tailorable ensemble optimized for combat rotary wing aircrew performance and protection in time to meet DA mandidated completion dates and allow aircrews to train as they will fight and reset Woodland pattern systems to the Universal Camouflage for deploying Combat Aviation Brigades.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Hardware													
-													
Air Warrior Block 1 Ensembles								8159	4900	1.7			
AW A Kits								4458	356	12.5			
A Kit Installs								2956					
Microclimate Cooling Garment								701	2501	0.3			
Microclimate Cooling Units								7315	1000	7.3			
-													
-													
Block 2													
Electronic Data Mgr (EDM)								4755	558	8.5			
EDM A Kits								2112	558	3.8			
Acft Wireless Intercom Sys (AWIS)								48	36	1.3			
AWIS A Kits								90	12	7.5			
EDM/AWIS Installs								1374					
-													
-													
Total Hardware Costs								**31968**					
Other Costs													
Manuals								115					
New Equipment Training								215					
Initial Spares & Repair Parts								500					
Support Equipment								215					
Systems Test and Evaluation								807					
-													
-													
Total Other Costs								**1852**					
Nonrecurring Costs													
Nonrecurring Engineering								902					
Total Nonrecurring Costs								**902**					

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Air Warrior ECP								605					
Systems Integration Engineering								2307					
Project Management Admin								3216					
Total ECP, Sys Int, & Admin Costs								**6128**					
Support Costs													
Fielding								835					
Contract Logistics Support								1042					
Total Support Costs								**1877**					
FY 2008 GWOT Request													
Aircrews deployed OIF/OEF													
Personnel Recovery Support Equipment								1694	3	564.7			
Electronic Data Manager								2297	114	20.1			
Microclimate Cooling System								4508	220	20.5			
Clothing and Individual Equipment								1701	1000	1.7			
Total FY 2008 GWOT Request								**10200**					
Total:								**52927**					

Exhibit P-40, Budget Item Justification Sheet

Date: September 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIR TRAFFIC CONTROL (AA0050)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 0604633A/586 Air Traffic Control

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost				109.2							109.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1				109.2							109.2
Initial Spares											
Total Proc Cost				109.2							109.2
Flyaway U/C											
Weapon System Proc U/C											

Description:
Tactical Air Traffic Control (ATC) equipment includes Air Traffic Navigation Integration and Coordination System (ATNAVICS), Tactical Airspace Integration System (TAIS), TAIS Airspace Workstation (AWS) and Tactical Terminal Control System (TTCS). ATNAVICS provides all weather instrument flight capabilities to include enroute, terminal, radar precision approach and landing services to all Army, Joint, and allied aircraft. ATNAVICS Environmental Dome provides semi-permanent protective shelter for radar under extreme heat and sand environment. TAIS is a highly mobile, airspace synchronization and deconfliction system providing Army Airspace Command and Control (A2C2) and Air Traffic Services (ATS) capabilities at the Combat Aviation Brigade, Division and Corps. TAIS AWS provides for A2C2 planning and execution at the Brigade Combat Team (BCT) and above. It is the Army's link to the Theater Battle Management Core System (TBMCS) for Joint Airspace Management. TAIS and TAIS AWS provide an automated A2C2 and ATS capability for current requirements and Battle Command migration. ATNAVICS and TAIS serve as effective risk management tools for aviation safety during night, inclement weather, and combat operations. TAIS Multifunctional Information Disbribution System (MIDS) provides Link 16 UHF Comms capability. Multilateration Aircraft Surveillance System provides low level real time wide area aircraft surveillance capability for Baghdad AOR. TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. Mobile Tower System (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. MOTS serves as an effective air traffic control tower for aviation safety, especially during night and inclement weather operations. Fixed Base ATC requirements will be met through a vast array of high 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). This includes upgrading and automating the complete infrastructure, systematically replacing antiquated analog systems (radars and communications switching system) with installation of state of the art digital technology. These new systems include Voice Communication Switching System (VCSS), Department of Defense (DoD) Advanced Automation System (DAAS), Digital Airport Surveillance Radar (DASR), Instrument Landing System (ILS), and Navigational Aids (NAVAIDS). Fixed Base Precision Approach Radar (FBPAR) will be the Army's primary ground controlled precision approach capability to recover aircraft to fixed base facilities, ensuring safe landing in adverse weather conditions.

Justification:
FY08 base appropriation procures tactical and fixed base ATC systems. Funds for tactical ATC systems provide for production of TAIS, TAIS AWS, ATNAVICS, and modification of TTCS. These tactical ATC systems replace previous generation equipment that is obsolete and not economically supportable, ensuring Army ATC and airspace command and control systems are capable of supporting the path ahead to the Future Force. Fixed base ATC systems (DAAS, DASR, ILS, NAVAIDS, FBPAR) provide the Army a joint service capability required for the DoD/FAA

Exhibit P-40, Budget Item Justification Sheet		Date: September 2007
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Item Nomenclature AIR TRAFFIC CONTROL (AA0050)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 0604633A/586 Air Traffic Control

modernization and upgrade of the NAS. These systems will save significant Operational and Support costs by replacing old, obsolete, and antiquated analog radars, switches, and automation systems with new, state of the art, highly reliable ATC systems in towers and approach control facilities. Equipment quantity and configuration is tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures interoperability between the Army and FAA systems.

FY08 GWOT request procures two TAIS shelters and one TAIS AWS.

FY 2008 Global War on Terrorism Cost Adjustment funds 1 Multilateration Aircraft Surveillance System, 1 ATNAVICS Environmental Dome and 18 TAIS Multifunctional Information Distribution Systems (MIDS) retrofits.

FY 2008 Base Appropriation:	$95.2
FY 2008 GWOT Request:	$6.2
FY 2008 GWOT Cost Adjustment Request:	$7.8
FY 2008 Total:	$109.2

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIR TRAFFIC CONTROL (AA0050)	Weapon System Type:	Date: September 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
FY08 Baseline													
Fixed Base Precision Approach Radar								324					
DoD Advanced Automation System (DAAS)								8500					
Digital Airport Surveillance Radar(DASR)								13458					
Tactical Airspace Integration Sys (TAIS)								26305					
Air Traffic Navigation and Integration								33438					
TAIS Airspace Workstation (AWS)								1996					
ILS/NAVAIDS								3990					
TTCS Upgrades								7192					
FY08 Baseline Total								**95203**					
FY08 GWOT Request													
Tactical Airspace Integration Sys (TAIS)								6100					
TAIS Airspace Workstation (AWS)								100					
FY08 GWOT Request Total								**6200**					
FY08 Amended GWOT Request													
TAIS MIDS								1080					
Multilateration Aircraft Surveillance Sy								5500					
ATNAVICS Environmental Dome								1187					
FY08 Amended GWOT Total								**7767**					
Total:								**109170**					