DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
FY 2007 Budget Submission

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

February 2006

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President's Budget FY 2007

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APPROPRIATION SUMMARY

DOLLARS IN THOUSANDS

APPROPRIATION	FY 2005	FY 2006	FY 2007	PAGE
Aircraft Procurement, Army	3,134,741	2,849,792	3,566,483	**3**
TOTAL PROCUREMENT PROGRAM	**3,134,741**	**2,849,792**	**3,566,483**	

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APPROPRIATION Aircraft Procurement, Army

DOLLARS IN THOUSANDS

	ACTIVITY	**FY 2005**	**FY 2006**	**FY 2007**	**PAGE**
01	Aircraft	521,827	760,298	1,193,705	**4**
02	Modification of aircraft	2,056,316	1,635,741	1,793,666	**5**
03	Spares and repair parts	10,218	3,896	9,446	**7**
04	Support equipment and facilities	546,380	449,857	569,666	**8**
	APPROPRIATION TOTALS	**3,134,741**	**2,849,792**	**3,566,483**	

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President's Budget FY 2007

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST
	FIXED WING							
1	UTILITY F/W CARGO AIRCRAFT (A11000)					4,860		109,154
2	UTILITY F/W AIRCRAFT (A11300)					3,946		4,060
	SUB-ACTIVITY TOTAL					*8,806*		*113,214*
	ROTARY							
3	ARMED RECONNAISSANCE HELICOPTER (A04203)							141,418
4	HELICOPTER, LIGHT UTILITY (LUH) (A05001)	A		2,000		70,639		198,677
5	UH-60 BLACKHAWK (MYP) (AA0005)		43	(491,945)	49	(653,063)	38	(632,542)
	Less: Advance Procurement (PY)			(-19,719)		(-50,201)		(-77,991)
				472,226		602,862		554,551
6	UH-60 BLACKHAWK (MYP) (AA0005) Advance Procurement (CY)			34,562		77,991		185,845
7	HELICOPTER NEW TRAINING (A06500)			13,039				
	SUB-ACTIVITY TOTAL			*521,827*		*751,492*		*1,080,491*
	ACTIVITY TOTAL			**521,827**		**760,298**		**1,193,705**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST
	MODIFICATIONS OF AIRCRAFT							
8	GUARDRAIL MODS (TIARA) (AZ2000)			16,487		18,700		58,000
9	ARL MODS (TIARA) (AZ2050)	A		36,000				48,000
10	AH-64 MODS (AA6605)	A		(43,544)		(596,243)		(794,387)
	Less: Advance Procurement (PY)							(-18,746)
				43,544		596,243		775,641
11	AH-64 MODS (AA6605)							
	Advance Procurement (CY)					18,746		19,000
12	CH-47 CARGO HELICOPTER MODS (AA0252)			(848,716)		(697,048)		(607,663)
	Less: Advance Procurement (PY)			(-20,363)		(-23,722)		(-24,358)
				828,353		673,326		583,305
13	CH-47 CARGO HELICOPTER MODS (AA0252)							
	Advance Procurement (CY)			23,722		24,358		36,740
14	UTILITY/CARGO AIRPLANE MODS (AA0270)			10,046		13,393		9,953
15	AIRCRAFT LONG RANGE MODS (AA0560)			750		768		364
16	LONGBOW (AA6670)			(883,913)		(83,380)		
	Less: Advance Procurement (PY)			(-14,099)				
				869,814		83,380		
17	UH-60 MODS (AA0480)			(88,466)		(58,992)		(30,891)
	Less: Advance Procurement (PY)			(-13,500)				
				74,966		58,992		30,891
18	KIOWA WARRIOR (AZ2200)			35,495		24,150		43,654
19	AIRBORNE AVIONICS (AA0700)			57,763		92,566		156,452
20	GATM Rollup (AA0711)	A		59,376		31,119		31,666
	SUB-ACTIVITY TOTAL			*2,056,316*		*1,635,741*		*1,793,666*

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST
	ACTIVITY TOTAL			**2,056,316**		**1,635,741**		**1,793,666**

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APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 03 Spares and repair parts

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST
	SPARES AND REPAIR PARTS							
21	SPARE PARTS (AIR) (AA0950)			10,218		3,896		9,446
	SUB-ACTIVITY TOTAL			*10,218*		*3,896*		*9,446*
	ACTIVITY TOTAL			**10,218**		**3,896**		**9,446**

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 04 Support equipment and facilities

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST
	GROUND SUPPORT AVIONICS							
22	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)			11,610		11,200		27,920
23	ASE INFRARED CM (AZ3507)			322,569		209,252		305,631
	SUB-ACTIVITY TOTAL			*334,179*		*220,452*		*333,551*
	OTHER SUPPORT							
24	AIRBORNE COMMAND & CONTROL (AA0710)			28,065		27,678		40,220
25	AVIONICS SUPPORT EQUIPMENT (AZ3000)			5,116		3,372		5,062
26	COMMON GROUND EQUIPMENT (AZ3100)			34,922		61,993		64,683
27	AIRCREW INTEGRATED SYSTEMS (AZ3110)			32,267		31,820		35,346
28	AIR TRAFFIC CONTROL (AA0050)			55,006		61,562		86,351
29	INDUSTRIAL FACILITIES (AZ3300)			45,006		40,669		2,100
30	LAUNCHER, 2.75 ROCKET (A50100)			2,402		2,311		2,353
31	AIRBORNE COMMUNICATIONS (AA0705)			9,417				
	SUB-ACTIVITY TOTAL			*212,201*		*229,405*		*236,115*
	ACTIVITY TOTAL			**546,380**		**449,857**		**569,666**
	APPROPRIATION TOTAL			**3,134,741**		**2,849,792**		**3,566,483**

NOMENCLATURE INDEX

SSN INDEX

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	Prior Yrs.	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
GUARDRAIL MODS (TIARA) (AZ2000)										
GUARDRAIL Information Node (GRFN)	2.6									2.6
SIGINT Transition Program (STP)	5.0									5.0
Interference Cancellation Sys/Radio Relay Sys	5.0									5.0
JTT Upgrades	1.1									1.1
Airborne Tactical Common Data Link	12.6	0.5								13.1
Upward Frequency extension (UFX)		3.4								3.4
System 2 Tracker & LAN Upgrade		5.0								5.0
Guardian Eagle System Upgrades	14.1	7.6	7.2							28.9
Comm High Accuracy Location Sys-Compact (CHALS-			8.0	8.3	8.3	8.3				32.9
System 2 Stabilization			3.5							3.5
Enhance Situational Awareness				49.7	32.7	32.7				115.1
Total	**40.4**	**16.5**	**18.7**	**58.0**	**41.0**	**41.0**				**215.6**
ARL MODS (TIARA) (AZ2050)										
Radar		11.0		5.0						16.0
Imagery		6.5		3.0	1.0	1.0	1.6	2.6		15.7
Workstation Architecture				5.0	4.2	3.0				12.2
Aircraft Survivability Equipment (ASE)	11.4			4.0	0.4					15.8
Upgrade to DAMA Compliant Radio	7.7									7.7
Comint Upgrades	10.3	18.5		6.6	3.0	1.0				39.4
Aircraft Standardization	1.1			9.0	6.0	5.0	1.0			22.1
Joint Tactical Terminal (JTT) Integration	0.7									0.7
ARL-C to ARL-M Conversion				15.4	0.6					16.0
Total	**31.2**	**36.0**		**48.0**	**15.2**	**10.0**	**2.6**	**2.6**		**145.6**
AH-64 MODS (AA6605)										
TADS/PNVS Upgrades	94.8	13.9	13.2	5.4	9.4	10.6				147.3
AH-64A MISC Mods $5M or less (no P3a set)	695.6	4.9	21.2	3.3	5.8	6.3				737.1
Apache Transformation	18.5	10.6	5.5	2.7	4.2	3.8				45.3
Modernized TADS/PNVS (M-TADS)	45.0	14.1	250.5	206.6	98.9	125.0				740.1
701C Engines (no P3a set)	40.0									40.0
Internal Auxiliary Fuel System (IAFS)			26.4	23.3	7.4	39.0	17.0			113.1

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	Prior Yrs.	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
AH-64 R&S & Recap	11.0		144.8	76.3	2.8	13.6	19.0			267.5
AH-64D Block III					6.0	110.2	420.1	472.8	5935.4	6944.5
Fire Control Radar (FCR)Obsolescence & Integration			4.9	4.0	3.8					12.7
AH-64 Training Devices			44.2							44.2
AH-64 Block II Upgrade			29.0	471.7	504.5	299.1	2.6			1306.9
AH-64 Post Production Organic Support			1.1	1.3	2.1	23.3	29.7			57.5
AH-64D Longbow Replacement Aircraft			74.1							74.1
Total	**904.9**	**43.5**	**614.9**	**794.6**	**644.9**	**630.9**	**488.4**	**472.8**	**5935.4**	**10530.3**
CH-47 CARGO HELICOPTER MODS (AA0252)										
Engine Filtration System	19.9	6.7	7.7	8.5	8.9	12.9	8.2	13.4	1.0	87.2
Engine Upgrade to T55-GA-714A Configuration	760.9	165.3	148.0	50.0	3.9					1128.1
CH-47F	808.7	643.3	512.8	526.8	712.0	1002.8	843.2	952.3	6338.5	12340.4
Low Maintenance Rotor Hub	16.1	9.7	10.1	9.3	10.8	11.4				67.4
Engine Fire Extinguisher (Halon Replacement)		2.6	7.2	8.2	8.3	8.4	9.3			44.0
Aviation Training Devices (AVCATT, MTD)			4.3	4.2	7.7	9.6	9.9	7.0	15.1	57.8
Transformation Sets, Kits and Outfits		24.5	6.1	4.9	4.8	5.9				46.2
CH-47 MISC Mods $5M or Less			3.0	10.2	10.0	11.0	5.5	8.5		48.2
Total	**1605.6**	**852.1**	**699.2**	**622.1**	**766.4**	**1062.0**	**876.1**	**981.2**	**6354.6**	**13819.3**
UTILITY/CARGO AIRPLANE MODS (AA0270)										
Avionics System Cockpit Upgrade	81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5		149.3
Total	**81.9**	**10.0**	**13.4**	**10.0**	**6.8**	**6.5**	**10.2**	**10.5**		**149.3**
LONGBOW APACHE MODS (AA6607)										
Longbow Apache Mods	5287.1	584.7	83.4							5955.2
Replacement aircraft		285.1								285.1
Total	**5287.1**	**869.8**	**83.4**							**6240.3**
UH-60 BLACK HAWK MODS (AA0492)										
Crashworthy External Fuel System (CEFS)	53.7	21.0	24.0	20.1						118.8
HH-60L Medical Equip Package (MEP)	47.3	31.0								78.3
Combat Search and Rescue (CSAR)		3.6	3.5							7.1

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	Prior Yrs.	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
Adv Hel Transmission Lubricant (AHTL)	2.3	1.2								3.5
Brigade Sets		18.2	6.3	10.8	13.3	11.3				59.9
FLIR/Ext. Mount (AN/AAQ-22)			4.0							4.0
Health Usage Monitoring System (HUMS)			21.2							21.2
Total	**103.3**	**75.0**	**59.0**	**30.9**	**13.3**	**11.3**				**292.8**
KIOWA WARRIOR (AZ2200)										
Safety Enhancement Program (SEP)	257.5	28.5	22.0	23.2	4.0	1.7				336.9
Safety Enhancement Program - Weight Reduction	9.1	7.0	2.2	20.5	16.4	8.2	1.6			65.0
Program Support and Other	2.0				1.0	4.6	2.6	3.1	13.2	26.5
Total	**268.6**	**35.5**	**24.2**	**43.7**	**21.4**	**14.5**	**4.2**	**3.1**	**13.2**	**428.4**
AIRBORNE AVIONICS (AA0700)										
Improved Data Modem (IDM)	247.6	23.2	50.2	51.1	59.8	48.6	44.3	68.7		593.5
Aviation Mission Planning System (AMPS)	121.4	15.9	21.6	17.1	16.0	14.3	18.4	16.9		241.6
Embedded GPS Inertial Navigation System (EGI) P3I	18.2	2.9	0.5	1.9	2.5	3.4	11.0	10.5		50.9
DGNS (AN/ASN-128B) P3I	27.5	10.2	9.8	13.2	18.7	22.5	20.6	11.1		133.6
Aviation Tactical Communication Systems	41.0	5.6	10.5	58.1	62.5	65.0	97.1	85.5		425.3
Joint Precision Approach and Landing Sys (JPALS)							48.7	79.9		128.6
Mil Flight Operation Quality Assurance (MFOQA)				15.0	15.0	15.0	15.0	15.0		75.0
Total	**455.7**	**57.8**	**92.6**	**156.4**	**174.5**	**168.8**	**255.1**	**287.6**		**1648.5**
GATM - Fixed Wing Aircraft (AA0703)										
Global Air Traffic Management - FW	61.1	39.9	8.7	8.1	9.6	8.6	13.6	13.6		163.2
Global Air Traffic Management - RW	65.1	19.4	22.5	23.5	43.5	71.2	92.4	90.0		427.6
Total	**126.2**	**59.3**	**31.2**	**31.6**	**53.1**	**79.8**	**106.0**	**103.6**		**590.8**
Grand Total	**8904.9**	**2055.5**	**1636.6**	**1795.3**	**1736.6**	**2024.8**	**1742.6**	**1861.4**	**12303.2**	**34060.9**

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	UTILITY F/W CARGO AIRCRAFT (A11000)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		273744/D18

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost			4.9	109.2	157.0	258.6	303.8	427.7		1261.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			4.9	109.2	157.0	258.6	303.8	427.7		1261.2
Initial Spares										
Total Proc Cost			4.9	109.2	157.0	258.6	303.8	427.7		1261.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
The Future Cargo Aircraft (FCA) program was established to correct operational shortfalls to cargo mission requirements, provide commonality with other aviation platforms, and replace multiple retiring aircraft systems. This aircraft addresses these shortfalls, and replaces retiring C-26 and C-23 fleets, and selected C-12s. A cargo aircraft is ideally suited to move time-sensitive, mission-critical supply parts, equipment and personnel over extended distances. The FCA will have a payload interoperability with the C-130 Aircraft and the CH-47F. This requires a payload capability of at least 6,000 pounds (lbs) of cargo allowing trans-loading to a CH-47F and fully supporting the Brigade Combat Team (BCT) missions. The aircraft must be capable of transporting, as a minimum, three 463L pallets. The FCA will bypass unsecured lines of communication and deliver routine sustainment items directly to forward supply bases. The FCA will have a robust takeoff and landing capability and be able to operate into and out of unimproved landing areas. The dimensions of the Future Force joint tactical area or the operational area of the ground force commander will severely limit the usefulness of rotary wing aircraft in re-supply missions. The distances are too great for effective use of helicopters. The FCA, with its extended range and speed, will meet the just-in-time re-supply needs of the Future Force. The FCA will easily cover these distances and free the rotary-wing fleet for their primary tactical missions. The FCA will provide a multi-mission, multi-functional platform for the commander's use in accomplishing the mission.

Justification:
The FY 2007 request procures three critically needed Future Cargo Aircraft. These Future Cargo Aircraft will make delivery of critical time sensitive materiel to the warfighter; and provide the Army the agility necessary to respond to short-notice requirements and missions, as directed by higher authority.

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 CARGO AIRCRAFT (A11000)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
Fixed Wing Cargo Aircraft										
Source Selection Evaluation Board (SSEB)					1863					
Hardware								104238	3	34746
Flight Simulator								1475		
Engineering Support								382		
Program Office Management					2997			3059		
Total					**4860**			**109154**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 1/ Aircraft		UTILITY F/W CARGO AIRCRAFT (A11000)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2007	TBS	C/FFP/REQ	Redstone Arsenal, AL	Jan 07	Jan 08	3	34746	YES		MAR 06

REMARKS: The initial FCA contract will be a five year, Firm Fixed Price (FFP), Requirements type contract to include three one-year ordering periods and two options. The contract will be for aircraft procurement, commercial pilot/loadmaster training, and performance based Contractor Logistics Support (CLS). The contract will be awarded competitively, using Federal Acquisition Regulation Part 15 "Contracting by Negotiations". The contract will be awarded to the offeror whose offer represents the best value to the government IAW Federal Acquisition Regulation Subpart 15.3 "Source Selection". The Source Selection Tradeoff Process will be utilized for the FCA.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UTILITY F/W CARGO AIRCRAFT (A11000)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08										Later
							Calendar Year 07												Calendar Year 08										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware																													
	1	FY 07	A	3	0	3				A												1									2
Total				3		3																1									2

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	TBS	3	11	11	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	3	23	26
	Reorder	0	3	23	26
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
Production rate is annual, not monthly. The contract will require the accelerated manufacture (12 months) of one (1) aircraft to support government operational test requirements. All other production lead time is 23 months.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UTILITY F/W CARGO AIRCRAFT (A11000)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
							Calendar Year 09												Calendar Year 10											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware																														
	1	FY 07	A	3	1	2			2																					0
Total				3	1	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	TBS	3	11	11	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	3	23	26
	Reorder	0	3	23	26
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
Production Rates are Annual, not Monthly.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	27									27
Gross Cost	230.2		3.9	4.1						238.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	230.2		3.9	4.1						238.3
Initial Spares										
Total Proc Cost	230.2		3.9	4.1						238.3
Flyaway U/C										
Weapon System Proc U/C	34.4									

Description:
The budget line primarily covers the procurement of all fixed wing aircraft except the Future Cargo Aircraft (FCA). The Army has a validated requirement for 300 total aircraft including FCA, Special Electronic Mission Aircraft (SEMA), and Utility. The utility aircraft are required to be fast, all weather transport for commanders and their staffs and critical equipment parts. These aircraft will be capable of rapid, world-wide self-deployment and will provide intra-theater support ranging from Stability Operations to Wartime Operations. This budget line also provides new commercial-off-the shelf, non-developmental, fixed wing aircraft systems for the Golden Knights Parachute Teams, as well as service life extension of existing aircraft.

Justification:
FY 2007 procures one replacement aircraft for the Golden Knights Parachute Teams.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Golden Knights Aircraft					3946	2	1973	2060	1	2060
Hardware and Associated Support								2000		2000
Golden Knights Aircraft Total					**3946**			**4060**		
Total					**3946**			**4060**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				18	20	72	72	72		254
Gross Cost				141.4	354.1	648.8	634.9	580.3		2359.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				141.4	354.1	648.8	634.9	580.3		2359.6
Initial Spares										
Total Proc Cost				141.4	354.1	648.8	634.9	580.3		2359.6
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. The ARH is a direct replacement for the aging OH-58D 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's 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 2007 funding will provide 18 LRIP aircraft, as well as associated support costs.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Contractor Flyaway								93599	18	5199.9
Government Flyaway								21313		
Total Flyaway								**114912**		
Other Procurement Cost								26506		
Total Other Procurement								**26506**		
Gross P-1 End Cost								**141418**		
Less: Prior Year Adv Proc										
Net P-1 Full Funding Cost										
Plus: P-1 CY Adv Proc										
Other Non P-1 Costs										
Total								**141418**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

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
Contractor Flyaway										
FY 2007	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fortworth, TX	MAR 07	MAR 08	18	5200			DEC 04

REMARKS: Low Rate Initial Production (LRIP) I (FY 07) and LRIP II (FY 08) options are included as part of the Systems Development and Demonstration (SDD) contract awarded in July 2005.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08										Later
							Calendar Year 07												Calendar Year 08										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Aircraft																															
	1	FY 07	A	18	0	18						A											1	1	2	2	2	2	2	2	4
Total				18		18																	1	1	2	2	2	2	2	2	4
							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	1	3	5	0	1	Initial	0	5	12	17	
							Reorder	0	1	12	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
							Calendar Year 09												Calendar Year 10											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Aircraft																														
	1	FY 07	A	18	14	4	2	2																						0
Total				18	14	4	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+	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	1	3	5	0	1	Initial	0	5	12	17	
							Reorder	0	1	12	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	HELICOPTER, LIGHT UTILITY (LUH) (A05001)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty			12	39	46	44	29	8	144	322
Gross Cost		2.0	70.6	198.7	230.9	222.9	157.5	57.5	826.9	1767.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		2.0	70.6	198.7	230.9	222.9	157.5	57.5	826.9	1767.1
Initial Spares										
Total Proc Cost		2.0	70.6	198.7	230.9	222.9	157.5	57.5	826.9	1767.1
Flyaway U/C										
Weapon System Proc U/C			5.9	5.1	5.0	5.1	5.4	7.2	5.7	5.5

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

Justification:
FY07 procures 39 aircraft and 1 procedural trainer. Funding also provides for fielding, other government agency support, and program office support.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft	P-1 Line Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
AIRCRAFT Flyaway Costs										
Airframes/CFE					53792	12	4483	178497	39	4577
B Kits (MEDEVAC & Hoist)					939	8	117	2158	18	120
Subtotal Flyaway Costs					**54731**			**180655**		
Non-Recurring Costs										
Total Flyaway					**54731**			**180655**		
Support Cost										
Source Selection Board (SSEB)		1253			4310					
Source Selection Performance Demo		332			3249					
PM Support Cost		415			5996			5736		
Other Govt SPT Cost					2353			2620		
Trainer								3970		
Fielding								5696		
Subtotal Support Costs		**2000**			**15908**			**18022**		
Gross P-1 End Cost										
Less: Prior Year Adv Proc										
Net P-1 Full Funding Cost										
Plus: P-1 CY Adv Proc										
Other Non P-1 Costs										
Total		**2000**			**70639**			**198677**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 1/ Aircraft		HELICOPTER, LIGHT UTILITY (LUH) (A05001)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2006	TBS	FFP	AMCOM	June 06	Nov 06	12	4483	No		
FY 2007	TBS	FFP	AMCOM	May 07	Nov 07	39	4577	No		

REMARKS:

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06											Later
							Calendar Year 05												Calendar Year 06											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 06	A	12	0	12																					A				12
	1	FY 07	A	39	0	39																									39
Total				51		51																								51
							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	TBS	16	50	60	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	8	5	13
	Reorder	0	6	6	12
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
Commercial aircraft procurement. Production rates unknown until contractor is selected.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08											Later
							Calendar Year 07												Calendar Year 08											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 06	A	12	0	12		1	1	1	1	1	1	1	1	1	1	1	1											0
	1	FY 07	A	39	0	39								A						2	2	3	3	3	3	3	4	4	4	4
Total				51		51		1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	3	3	4	4	4	4
							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	TBS	16	50	60	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	8	5	13
	Reorder	0	6	6	12
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
Commercial aircraft procurement. Production rates unknown until contractor is selected.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
										Calendar Year 09														Calendar Year 10								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 06	A	12	12																									0
	1	FY 07	A	39	35	4	4																							0
Total				51	47	4	4																							
							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	TBS	16	50	60	0	1	Initial	0	8	5	13	
							Reorder	0	6	6	12	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	1594	43	49	38	51	75	64	45	932	2891
Gross Cost	9361.7	491.9	653.1	632.5	813.8	1206.2	1129.5	820.4	17805.2	32914.4
Less PY Adv Proc	2466.0	19.7	50.2	78.0	162.8	192.6	173.8	121.9	2960.9	6226.0
Plus CY Adv Proc	2501.4	34.6	78.0	185.8	186.5	165.8	113.0	222.5	2738.4	6226.0
Net Proc P1	9397.1	506.8	680.9	740.4	837.5	1179.4	1068.7	921.0	17582.7	32914.4
Initial Spares	421.3									421.3
Total Proc Cost	9818.4	506.8	680.9	740.4	837.5	1179.4	1068.7	921.0	17582.7	33335.7
Flyaway U/C										
Weapon System Proc U/C	30.2	11.4	13.3	16.6	16.0	16.1	17.6	18.2		

Description:
UH-60 BLACK HAWK and associated equipment.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	1591	43	49	38	51	75	64	45	932	2888
Gross Cost	9322.2	491.9	653.1	632.5	813.8	1206.2	1129.5	820.4	17805.2	32874.9
Less PY Adv Proc	2466.0	19.7	50.2	78.0	162.8	192.6	173.8	121.9	2960.9	6226.0
Plus CY Adv Proc	2501.4	34.6	78.0	185.8	186.5	165.8	113.0	222.5	2738.4	6226.0
Net Proc P1	9357.6	506.8	680.9	740.4	837.5	1179.4	1068.7	921.0	17582.7	32874.9
Initial Spares	421.3									421.3
Total Proc Cost	9778.9	506.8	680.9	740.4	837.5	1179.4	1068.7	921.0	17582.7	33296.2
Flyaway U/C										
Weapon System Proc U/C	30.2	11.4	13.3	16.6	16.0	16.1	17.6	18.2		

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:
FY07 procures 38 UH-60M aircraft, two of which will become Commander in Chief (CINC) HAWK aircraft, continues fielding, and provides for Program Management Office operations. The current multiservice, airframe multiyear contract began in FY 2002 and concludes in FY 2006. A follow on five year multiyear, multiservice contract covering requirements for FY07-FY11 to procure the Army UH-60M and the Navy's MH-60S and MH-60R aircraft is planned.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Costs										
Airframes/CFE		326513	43	7593	492163	49	10044	433395	38	11405
Engines/Accessories		32598	56	582	58256	98	594	47167	76	621
Avionics (GFE)		16360			36742			14011		
Other GFE		5947			7624			14773		
Armament										
ECO (All FLYAWAY Components)		7389			10716			9318		
Other Costs (Mission Equipment)		2524			2634			16014		
Tooling Equipment		7198						3316		
Other Nonrecurring Cost		9513			2500			543		
Total FLYAWAY		**408042**			**610635**			**538537**		
Support Cost										
Airframe PGSE		3283			3667					
Engine PGSE										
Peculiar Training Equipment		13246						49415		
Publications/Tech Data		2127			1858			1065		
PM Administration		56111			24811			17854		
Fielding		9136			12092			25671		
Subtotal Support Cost		**83903**			**42428**			**94005**		
Gross P-1 End Item Cost		**491945**			**653063**			**632542**		
Less: Prior Year Adv Proc		19719			50201			77991		
Net P-1 Full Funding Cost		**472226**			**602862**			**554551**		
Plus: P-1 CY Adv Proc		34562			77991			185845		
Initial Spares										
Total		**506788**			**680853**			**740396**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

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 $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2005	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 04	Jun 05	33	7190	Yes		Sep 00
FY 2005	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jun 05	Jul 06	5	10772	Yes		Oct 04
FY 2005	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jun 05	Apr 06	5	7075	Yes		Sep 00
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 06	Jul 06	24	7787	Yes		Sep 00
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 06	Jan 07	17	13231	Yes		Oct 04
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Mar 06	Apr 07	8	10044	Yes		Sep 00
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	May 07	Jul 07	38	11405	Yes		May 05

REMARKS: The FY07 contract will be the first year of a 5 year multi-year, multi-service contract for the procurement of UH-60Ms.

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06										Later
							Calendar Year 05												Calendar Year 06										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
	1	FY 05	A	38	0	38			A						2	2	2	3	3	3	1	3	3	3	3	2	2	2		1	3
	1	FY 05	A	5	0	5									A												1	1	1	2
	1	FY 06	A	32	0	32																A					2	3	3	24
	1	FY 06	A	17	0	17																A								17
	1	FY 07	A	38	0	38																								38
	1	FY 05	FMS	8	0	8																					1		1	1	5
	1	FY 05	FMS	6	0	6															2										4
	1	FY 04	NA	4	0	4												1		1	1	1									0
	1	FY 05	NA	15	0	15										1	1	2	1	2	1	1	1	2	1	1	1				0
	1	FY 05	NA	6	0	6																			1		1		1		3
	1	FY 06	NA	26	0	26																						2	2	2	20
	1	FY 06	NA	12	0	12																									12
	1	FY 07	NA	18	0	18																									18
	1	FY 07	NA	25	0	25																									25
Total				250		250									2	3	3	6	4	6	5	5	4	5	5	3	5	7	8	8	171
							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
Army quantity for FY05 consists of 38 H-60L aircraft, and 5 H-60M (LRIP) aircraft. FY06 Army quantity includes 32 H-60L aircraft and 17 H-60M aircraft. All
FY07 aircraft are H-60Ms. FMS deliveries are for Jordan (8) and Brazil (6). Navy is procuring both the MH-60R and the MH-60S.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
							Calendar Year 07												Calendar Year 08												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
	1	FY 05	A	38	35	3	1	1	1																						0
	1	FY 05	A	5	3	2	1	1																							0
	1	FY 06	A	32	8	24	3	3	2	1	2	2	1	1	3	3	3														0
	1	FY 06	A	17	0	17				3	3	3	3	3	2																0
	1	FY 07	A	38	0	38								A		3	3	3	3	3	3	4	4	5	4	2	1				0
	1	FY 05	FMS	8	3	5	1	2	2																						0
	1	FY 05	FMS	6	2	4			2					2																	0
	1	FY 04	NA	4	4																										0
	1	FY 05	NA	15	15																										0
	1	FY 05	NA	6	3	3	1	1	1																						0
	1	FY 06	NA	26	6	20	2	2	2	2	2	2	3	2	3																0
	1	FY 06	NA	12	0	12							1	1	1	1	1	1	1	1	1	1	1	1							0
	1	FY 07	NA	18	0	18										2	2	1	2	2	1	1	2	2	1	1	1				0
	1	FY 07	NA	25	0	25																2	2	2	2	3	2	2	2	2	6
Total				250	79	171	9	10	10	6	7	7	8	9	9	9	9	5	6	6	5	8	9	10	7	6	4	2	2	2	6
							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
FY07 quantity consists of 34 UH-60M aircraft and 4 HH-60M Medevac aircraft.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
							Calendar Year 09												Calendar Year 10											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 05	A	38	38																									0
	1	FY 05	A	5	5																									0
	1	FY 06	A	32	32																									0
	1	FY 06	A	17	17																									0
	1	FY 07	A	38	38																									0
	1	FY 05	FMS	8	8																									0
	1	FY 05	FMS	6	6																									0
	1	FY 04	NA	4	4																									0
	1	FY 05	NA	15	15																									0
	1	FY 05	NA	6	6																									0
	1	FY 06	NA	26	26																									0
	1	FY 06	NA	12	12																									0
	1	FY 07	NA	18	18																									0
	1	FY 07	NA	25	19	6	2	2	2																					0
Total				250	244	6	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+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Sikorsky Aircraft, Stratford CT	18	96	180	22	1	Initial	8	3	6	9	
							Reorder	0	3	6	9	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	UH-60 BLACKHAWK (MYP) (Adv. Proc.) (AA0005)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Less PY Adv Proc										
Plus CY Adv Proc	2501.4	34.6	78.0	185.8	186.5	165.8	113.0	222.5	2738.4	6226.0
Net Proc P1	2501.4	34.6	78.0	185.8	186.5	165.8	113.0	222.5	2738.4	0.0
Initial Spares										
Total Proc Cost	2501.4	34.6	78.0	185.8	186.5	165.8	113.0	222.5	2738.4	6226.0
Flyaway U/C										
Weapon System Proc U/C										

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

Justification:
FY07 procures both Economic Order Quantity (EOQ) and long lead items on the proposed FY 2007-2011 airframe multiyear contract. Advance procurement is also required for the procurement of GFE items, including the T700-GE-701D engine, IHIRSS and some avionics items, since their leadtime exceeds the leadtime of the aircraft (with long lead funding).

Advance Procurement Requirements Analysis-Funding (P-10A)

First System Award Date:	First System Completion Date:	Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 1 / Aircraft

P-1 Line Item Nomenclature / Weapon System:
UH-60 BLACKHAWK (MYP)

($ in Millions)

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Quantity			1591.0	43.0	49.0	38.0	51.0	75.0	64.0	45.0	932.0	2888.0
CFE Airframe	18	6	1542.1	14.0	37.0	113.0	75.4	57.6	33.8	86.5	785.6	2745.0
Engines	13	3	690.4	14.8	31.4	40.7	71.0	69.7	50.5	87.0	1437.9	2493.4
Avionics		3	124.6	3.3	6.5	29.4	36.0	34.9	26.2	44.6	442.3	747.8
Auxiliary Power Unit	6	3	45.5		1.3							46.8
Armored Crew Seat	6	3	23.4									23.4
Hover Infrared Suppressor	14	3	31.7	2.5	1.8	2.7	4.1	3.6	2.5	4.4	72.6	125.9
Elastomeric Bearings	10	3	1.5									1.5
Miscellaneous		3	42.2									42.2
Total Advance Procurement			**2501.4**	**34.6**	**78.0**	**185.8**	**186.5**	**165.8**	**113.0**	**222.5**	**2738.4**	**6226.0**

Leadtime shown is the manufacturing (production) leadtime, i e the time from contract award to first delivery. 'When required' reflects the number of months after funding is received (December) that delivery is required. GFE delivery to prime contractor is required at least three months prior to end item delivery. CFE airframe is termination liability funding of both long leadtime as well Econonomic Order Quantity (EOQ) items. Engines are fully funded. Avionics and miscellaneous items include numerous items with differing lead times. APU and Crew seats no longer require Advance Procurement, due to reduction in lead times.

Advance Procurement Requirements Analysis-Funding (P-10B)

Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 1 / Aircraft

P-1 Line Item Nomenclature / Weapon System:
UH-60 BLACKHAWK (MYP)

($ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2007 Qty	2007 Contract Forecast Date	2007 Total Cost Request
CFE Airframe	18	1		235.0	May 2007	113.0
Engines	13	2	605.0	50.0	Dec 2006	40.7
Avionics				51.0	Dec 2006	29.4
Hover Infrared Suppressor	14	1	106.0	51.0	Dec 2006	2.7
Total Advance Procurement						**185.8**

Airframes are currently being procured on an FY02 through FY06 joint service multiyear contract for the UH-60L and MH-60S. A follow-on FY07-11 multiyear contract procuring additional MH-60S aircraft for the Navy and UH-60M aircraft for the Army was authorized by language contained in the FY06 Defense Appropriation Bill. All FY06 funding shown is for the procurement of FY07 funded aircraft, since multiyear authority had not been granted when the FY06 budget was submitted. Airframe quantity and funding in FY07 is for aircraft planned for procurement in FY08 through FY11. Avionics includes numerous items procured by CECOM. Unit cost of the T701D Engine, APU, and IHIRSS are the latest option price for delivery at leadtime. The item configuration of the Engine and HIRSS planned for procurement in FY06 and FY07 are upgrades to the existing items.

Advance Procurement Requirements Analysis-Funding (P-10C)

Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 1 / Aircraft

P-1 Line Item Nomenclature / Weapon System:
UH-60 BLACKHAWK (MYP)

($ in Millions)

	Pr Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
Proposal w/o AP										
Then Year Cost	247	298	467	621	726	883	1058	1081	1395	6774
Constant Year Cost	262	298	458	596	683	813	955	955	1191	6210
Present Value	231	260	395	505	553	633	717	696	823	4814
AP Proposal										
Then Year Cost	238	290	457	602	696	841	1006	1029	1333	6492
Constant Year Cost	253	290	448	578	654	775	907	910	1138	5953
Present Value	223	254	387	490	530	603	682	663	787	4618
AP Savings (Difference)										
Then Year Cost	-8	-7	-10	-19	-30	-42	-53	-51	-61	-282
Constant Year Cost	-9	-7	-10	-18	-28	-38	-47	-45	-52	-257
Present Value	-8	-6	-8	-16	-23	-30	-36	-33	-36	-196

Costs shown are total program outlays. The AP proposal represents the current budget, including the Advance Procurement necessary to execute an FY02-06 and proposed FY07-11 airframe multiyear contracts. Proposal without AP represents the estimated cost of single year contracting over the same time span. Savings do not include any savings realized in the procurement of unexercised option aircraft or other Customers (Other Service/FMS). Constant dollars shown are FY05. A 3.1% discount factor was applied to the constant year dollars. It should be noted that even assuming single year contracting, some AP is required, since actual production lead time is greater than the effective production lead time. GFE items procured using Advance Procurement funds are not included, since they provide no cost benefit--they are procured in advance in order to support the airframe delivery schedule.

Advance Procurement Requirements Analysis-Execution (P-10D)

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

($ in Millions)

		2005					2006		2007	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity		27			43.0					
CFE Airframe	18	28	Dec 04	Dec 04	14.0	14.0	45	Dec 2005	235	May 2007
Engines	13	26	Dec 04	Nov 04	14.8	14.8	45	Dec 2005	50	Dec 2006
Avionics		28	Dec 04	Jul 05	3.3	3.3	45	Dec 2005	51	Dec 2006
Auxiliary Power Unit	6									
Armored Crew Seat	6									
Hover Infrared Suppressor	14	28	Dec 04	Jul 05	2.5	2.5	45	Dec 2005	51	Dec 2006
Elastomeric Bearings	10									
Miscellaneous										
Total Advance Procurement					**34.6**	**34.6**				

Initial award date for the HIRSS was December, 2004 and award to upgrade IHIRSS was in July, 2005. Avionics awards were for the ALQ-144 in May, 2005 and the APR-39 in July, 2005.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	HELICOPTER NEW TRAINING (A06500)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	175	7								182
Gross Cost	176.6	13.0								189.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	176.6	13.0								189.7
Initial Spares										
Total Proc Cost	176.6	13.0								189.7
Flyaway U/C										
Weapon System Proc U/C	1.0	1.9								1.0

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

Justification:
There is no funding beyond FY05.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	737.3	16.5	18.7	58.0	41.0	41.0				912.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	737.3	16.5	18.7	58.0	41.0	41.0				912.4
Initial Spares										
Total Proc Cost	737.3	16.5	18.7	58.0	41.0	41.0				912.4
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:
The FY07 Budget will provide GRCS the following modications: CHALS-C enhanced precision geo-location to all systems; and Enhanced Situational Awareness by replacing Major COMINT Subsystems for System 1, 2 & 4.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

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	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
GUARDRAIL Information Node (GRFN)											
1-01-111-1111		2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
SIGINT Transition Program (STP)											
1-02-111-1111		5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Interference Cancellation Sys/Radio Relay Sys											
1-02-222-2222		5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
JTT Upgrades											
1-03-111-1111		1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Airborne Tactical Common Data Link											
1-03-222-2222		12.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
Upward Frequency extension (UFX)											
1-05-111-1111		0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
System 2 Tracker & LAN Upgrade											
1-05-222-2222		0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Guardian Eagle System Upgrades											
1-03-333-3333		14.1	7.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	28.9
Comm High Accuracy Location Sys-Compact (CHALS-											
1-06-111-2006		0.0	0.0	8.0	8.3	8.3	8.3	0.0	0.0	0.0	32.9
System 2 Stabilization											
1-06-222-2006		0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Enhance Situational Awareness											
1-06-333-2006		0.0	0.0	0.0	49.7	32.7	32.7	0.0	0.0	0.0	115.1
Totals		40.4	16.5	18.7	58.0	41.0	41.0	0.0	0.0	0.0	215.6

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Guardian Eagle System Upgrades [MOD 8] 1-03-333-3333

MODELS OF SYSTEM AFFECTED: GUARDRAIL/Common Sensor System 1, 2 & 4

DESCRIPTION / JUSTIFICATION:

The Guardian Eagle (GE) upgrades for Guardrail (GRCS) Systems 1, 2 & 4 is a modification that added the ability for each system to intercept, recognize and exploit nontraditional signals in the Area of Operation (AOR). These capabilities allow GRCS to intercept military and commercially available communication devices to support deployments to OIF and Operation Enduring Freedom (OEF). Using FY04 and FY05 supplemental funding, System 1, 2, & 4 were upgraded with the capability to mount Delta Wing, X-Midas and Hyper Wide Boxes, but share B-Kits as Stay Behind Equipment (SBE) in the AoR.

FY06 OIF Supplemental funds for the procurement of additional Dual thread X-Midas Boxes to equip each GRCS Aircraft in System 1 & 4 with 4 threads, and each Aircraft in System 2 with 2 threads, plus provides some spares. The supplemental also provides for the fielding of new Software applications to support the collection of high value targets in OIF. This provides enhanced situational awareness by automating linkage of precision geo-location and X-Midas collection.

This capability supports ongoing Deployments in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and the Global War on Terrorism (GWOT).

B Kit upgrades are 'plug and play' in nature, and will be installed by the units in the field without incurring installation expenses. The 15 installation events identified refer to systems 4 and 1 A Kit installations, enabling the B Kit upgrades. System 2 has sufficient rack capacity to accommodate the upgrade B Kits.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY 05 Contract Award - 2Q 05
System 1 Fielding - 1Q 06
System 4 Fielding - 2Q 06
FY 06 Contract Award - 2Q 06
Adtl System 1 "B" Kits - 4Q 06
Adtl System 4 "B" Kits - 4Q 06

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	7				18			22													
Outputs	7					8	10		22												

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		47
Outputs																		47

METHOD OF IMPLEMENTATION: Contractor
ADMINISTRATIVE LEADTIME: 1 months
PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2006 - FY 2007 - FY 2008 -
Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Guardian Eagle System Upgrades [MOD 8] 1-03-333-3333

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Hardware Equipment (B Kits)	7	2.7	18	3.4	22	5.3													47	11.4
Aircraft Modification		3.6																		3.6
Installation Kits (A Kits)	0		8	1.8															8	1.8
Fielding	0	3.0																		3.0
Integration	0	1.4																		1.4
Flight Test/Fielding	0	0.6				0.9														1.5
Software Upgrade	0					1.0														1.0
Spares	0	0.1		0.4																0.5
Govt/In House Support	0	1.2		0.5																1.7
Field Contractor Support	0	0.9		0.2																1.1
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	7	0.6																	7	0.6
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0		8	1.3															8	1.3
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
Total Installment	7	0.6	8	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	1.9
Total Procurement Cost		14.1		7.6		7.2		0.0		0.0		0.0		0.0		0.0		0.0		28.9

INDIVIDUAL MODIFICATION Date: February 2006

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:

The CHALS-C will provide commercial off the shelf hardware for Guardrail, which provides enhanced precision geo-location capability to the warfighter. The CHALS-C enhancement extends the frequency range of GRCS precision geo-location to handle identification of high value threats and supports Theater Net-centric Geolocation Architecture (TNG) cooperative operations. This provides risk reduction for future Army ISR systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

2QFY06 - Contract Awd (1st system)
2QFY07 - Contract Awd (2nd system)
1QFY08 - Field (1st system)
2QFY08 - Contract Awd (3rd system)
1QFY09 - Field (2nd system)
2QFY09 - Contract Awd (4th system)
1QFY10 - Field (3rd system)
1QFY11 - Field (4th system)

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

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs												8				9				9	
Outputs														8				9			

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			7															33
Outputs	9				7													33

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 15 months

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring Installation A-Kits						0.6														0.6
Recurring Fabrication A-Kits					8	0.8	9	0.9	9	0.9	7	0.7							33	3.3
Non-recurring CHALS-C						2.3														2.3
Recurring CHALS-C Equipment					8	3.1	9	3.5	9	3.5	7	2.7							33	12.8
Data/Training						0.0		0.4		0.4		0.7								1.5
Ancilliary Equipment						0.4		0.4		0.7		0.8								2.3
Spares						0.6		0.6		0.6		0.5								2.3
Test/Fielding Support						0.0		1.4		1.0		1.0								3.4
PM Support/TDY						0.2		0.3		0.3		0.3								1.1
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits							8	0.8											8	0.8
FY 2007 Equip -- Kits									9	0.9									9	0.9
FY 2008 Equip -- Kits											9	0.9							9	0.9
FY 2009 Equip -- Kits											7	0.7							7	0.7
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	8	0.8	9	0.9	16	1.6	0	0.0	0	0.0	0	0.0	33	3.3
Total Procurement Cost		0.0		0.0		8.0		8.3		8.3		8.3		0.0		0.0		0.0		32.9

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Enhance Situational Awareness [MOD 11] 1-06-333-2006

MODELS OF SYSTEM AFFECTED: System 1, 2 & 4

DESCRIPTION / JUSTIFICATION:

This effort will replace three (3) Major COMINT Subsystems on current GRCS to include Airborne Digital Processing Units (ADPU), Signal Classification and Recognition (SCAR)software, and Radio Frequency Distribution (RFD) Subsystems and is needed for modern signal exploitation operations.

The ADPU will upgrade the current 1980's vintage DF and Signal Classification capabilities with a modular net-centric and sustainable architecture capable of providing high throughput identification, location and mapping of modern signal environments.

The RFD upgrade integrates all RFD functions into a single unit. It eliminates redundancy, reduces aircraft weight, and further supports sustainment improvements.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY07 Award 1st ADPU/RFD Contract
1QFY08 Award 2nd ADPU/RFD Contract
3QFY08 Field 1st ADPU/RFD Upgrade
1QFY09 Award 3rd ADPU/RFD Contract
3QFY09 Field 2nd ADPU/RFD Upgrade
3QFY10 Field 3rd ADPU/RFD Upgrade
NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs															9				8		
Outputs																9				8	

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs		7																24
Outputs			7															24

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

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
ADPU Sys Engr NRE								6.9		0.2		0.2								7.3
ADPU Recurring Engr B-Kit							9	10.8	8	9.6	7	8.4							24	28.8
ADPU Recurring Eng A-Kit/HW								0.2		0.2		0.2								0.6
ADPU Integrate/Test								6.2		2.5		2.3								11.0
RFD Sys Engr NRE								6.3		0.1		0.1								6.5
RFD Recurring Engr B-Kit							9	11.7	8	10.4	7	9.1							24	31.2
RFD Recurring A-Kit HW								0.5		0.5		0.5								1.5
RFD Integrate/Test								3.1		1.2		1.1								5.4
Spares (ADPU/RFD)								3.8		3.3		3.1								10.2
Interim Contractor Support																				
PM In House Support								0.2		0.2		0.2								0.6
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits									9	4.5									9	4.5
FY 2008 Equip -- Kits											8	4.0							8	4.0
FY 2009 Equip -- Kits											7	3.5							7	3.5
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	9	4.5	15	7.5	0	0.0	0	0.0	0	0.0	24	12.0
Total Procurement Cost		0.0		0.0		0.0		49.7		32.7		32.7		0.0		0.0		0.0		115.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	50.6	36.0		48.0	15.2	10.0	2.6	2.6		165.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	50.6	36.0		48.0	15.2	10.0	2.6	2.6		165.0
Initial Spares										
Total Proc Cost	50.6	36.0		48.0	15.2	10.0	2.6	2.6		165.0
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:

FY07 procures the standardization and modernization of the ARL fleet. ARL's evolved into three different system configurations: ARL-M in CENTCOM (OIF), ARL-C and ARL-M in SOUTHCOM and ARL-M's in Republic of Korea (ROK). The budget in FY07 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. The ARL-C's will be converted to ARL-M's (a complete multi-function configuration conversion). This standardization will also address reducing the maintenance burden and operational support costs until ARL's can be replaced. Sensors will also be modernized to address emerging threats and requirements (resulting in Radar, COMINT, IMINT, and possibly MASINT upgrades).

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

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	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Radar											
0-00-05-2222	Operational	0.0	11.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16.0
Imagery											
0-00-05-3333	Operational	0.0	6.5	0.0	3.0	1.0	1.0	1.6	2.6	0.0	15.7
Workstation Architecture											
1-08-11-0000	Operational	0.0	0.0	0.0	5.0	4.2	3.0	0.0	0.0	0.0	12.2
Aircraft Survivability Equipment (ASE)											
9-99-99-0000	Operational	11.4	0.0	0.0	4.0	0.4	0.0	0.0	0.0	0.0	15.8
Upgrade to DAMA Compliant Radio											
3-33-333-0000	Operational	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
Comint Upgrades											
6-66-66-0000	Operational	10.3	18.5	0.0	6.6	3.0	1.0	0.0	0.0	0.0	39.4
Aircraft Standardization											
8-88-88-0000	Operational	1.1	0.0	0.0	9.0	6.0	5.0	1.0	0.0	0.0	22.1
Joint Tactical Terminal (JTT) Integration											
0-11-00-0000	Operational	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
ARL-C to ARL-M Conversion											
0-00-07-7777	Operational	0.0	0.0	0.0	15.4	0.6	0.0	0.0	0.0	0.0	16.0
Totals		31.2	36.0	0.0	48.0	15.2	10.0	2.6	2.6	0.0	145.6

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Radar [MOD 1] 0-00-05-2222

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures mode development modification for all ARL-Ms. The Phoenix Eye long range Ground Moving Target Indicator/Synthetic Aperture Radar (GMTI/SAR) will be enhanced to include a GMTI over strip-SAR mode, sea-state mode (sea states 1-4), and in flight calibration. This radar will also be upgraded to provide a coherent change detection capability and support exploitation tools such as super resolution SAR, and Dynamic Imaging. The super high resolution Lynx radar will be enhanced by providing a GMTI capability, SAR over SAR (enhanced radar imaging) and improved coherent change detection. All radars will be modified to reflect the most current hardware/software configurations.

FY05 Supplemental funds provided for replacement of HISAR radar for ARL M1, M2, M3.

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):

Award Contract	4QFY05	1QFY07
Complete S/W Modifications	1QFY07	4QFY07
Test Configuration/Modes	2QFY07	1QFY08
Field Assets	3QFY07	2QFY08

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										3			5								
Outputs											3			5							

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		8
Outputs																		8

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 4 months

Contract Dates: FY 2006 - 1QFY07 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - 2QFY08 FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Radar [MOD 1] 0-00-05-2222

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits			3	1.5			5	2.5											8	4.0
Installation Kits, Nonrecurring				0.2																0.2
Equipment				3.6																3.6
Equipment, Nonrecurring				2.8																2.8
Engineering Change Orders																				
Software				1.5				0.3												1.8
PMO Support				0.2				0.1												0.3
Spares								0.5												0.5
AWR				0.3				0.1												0.4
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits			3	0.9			5	1.5											8	2.4
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	3	0.9	0	0.0	5	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	2.4
Total Procurement Cost		0.0		11.0		0.0		5.0		0.0		0.0		0.0		0.0		0.0		16.0

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Imagery [MOD 2] 0-00-05-3333

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures 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. 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	4QFY05	1QFY07	1QFY08
System Status Review	4QFY05	1QFY07	1QFY08
System Acceptance Test	1QFY06	3QFY07	3QFY08
System Fielding	2QFY06	4QFY07	4QFY08

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						1	1	1	1	1	1	1				1					
Outputs							1	1	1	1	1	1	1				1				

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		8
Outputs																		8

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

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Imagery [MOD 2] 0-00-05-3333

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits			6	0.6			1	2.0	1	0.5									8	3.1
Installation Kits, Nonrecurring				0.6																0.6
Equipment				2.4																2.4
Equipment, Nonrecurring				0.8				0.3												1.1
Engineering Change Orders																				
Test				0.2				0.2												0.4
Software												0.5		1.6		2.6				4.7
Support Equipment, Spares												0.5								0.5
AWR				0.5																0.5
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits			6	1.4															6	1.4
FY 2007 Equip -- Kits							1	0.5											1	0.5
FY 2008 Equip -- Kits									1	0.5									1	0.5
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	6	1.4	0	0.0	1	0.5	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	8	2.4
Total Procurement Cost		0.0		6.5		0.0		3.0		1.0		1.0		1.6		2.6		0.0		15.7

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Workstation Architecture [MOD 3] 1-08-11-0000

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures the standardization modification of the ARL Mission Analyst's workstations, employment of wideband data links, and evolution of tactical communications. The workstations will be designed against commercial PC standards to allow the use of industrially prevalent hardware and software. This will reduce (significantly) maintenance costs and facilitate the ability to add additional capability. A Client Server relationship will also be established between sensors and workstations which will facilitate remote operations. Wide band data links (air to ground and air to satellite) will be added to allow rapid data dissemination and remote operations. Tactical radios will be adjusted to allow conformance to all relevant combat radio protocols. These modifications will be applied across the 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	1QFY07	1QFY08	1QFY09
System Status Review	1QFY07	1QFY08	1QFY09
System Acceptance Test	4QFY07	4QFY08	4QFY09
System Fielding	1QFY08	1QFY09	1QFY10

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs													3				3				2
Outputs														3				3			

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		8
Outputs	2																	8

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 8 months

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Workstation Architecture [MOD 3] 1-08-11-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							3	3.0	3	3.0	2	2.0							8	8.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Software								1.3		0.5		0.5								2.3
Training																				
Testing, Air Worthiness Release								0.1		0.1		0.1								0.3
Program Mgt																				
Other																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							3	0.6											3	0.6
FY 2008 Equip -- Kits									3	0.6									3	0.6
FY 2009 Equip -- Kits											2	0.4							2	0.4
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	3	0.6	3	0.6	2	0.4	0	0.0	0	0.0	0	0.0	8	1.6
Total Procurement Cost		0.0		0.0		0.0		5.0		4.2		3.0		0.0		0.0		0.0		12.2

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Aircraft Survivability Equipment (ASE) [MOD 4] 9-99-99-0000

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

DESCRIPTION / JUSTIFICATION:

FY07 procures the improvement of the current ASE system by adding two additional Chaff dispensers for enhanced RF threat countermeasures, add light weight Armor, and a digital intercom system. The addition of these modifications to the fleet will bring all the systems up to standard and insure they are properly configured for the full range of military operations in support of the Global War on Terrorism (GWOT).

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY07	1QFY08
System Status Review	1QFY07	1QFY08
System Acceptance Test	3QFY07	3QFY08
System Fielding	2QFY08	2QFY09

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs												3	3			1	1				
Outputs													3	3			1	1			

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		8
Outputs																		8

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 7 months

Contract Dates:	FY 2006 -	FY 2007 -	FY 2008 -
Delivery Dates:	FY 2006 -	FY 2007 -	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Aircraft Survivability Equipment (ASE) [MOD 4] 9-99-99-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0			0.0																
Procurement	0																			
Data	0							2.0		0.2										2.2
Installation Kits	8	2.4																	8	2.4
Installation Kits, Nonrecurring	0	1.9																		1.9
Equipment	0	1.2																		1.2
Equipment, Nonrecurring	0	0.8						0.3												1.1
Engineering Change Orders/Data	0	0.3						0.5												0.8
Software Modifications	0	0.2																		0.2
Training Equipment	0	0.4																		0.4
Testing	0							0.6												0.6
Gov't In-House/Prog Mgt	0	0.5																		0.5
Contractor Engineering	0	0.6																		0.6
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	8	3.1																	8	3.1
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0						6	0.6											6	0.6
FY2008 Equip -- Kits	0								2	0.2									2	0.2
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	8	3.1	0	0.0	0	0.0	6	0.6	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	16	3.9
Total Procurement Cost		11.4		0.0		0.0		4.0		0.4		0.0		0.0		0.0		0.0		15.8

INDIVIDUAL MODIFICATION Date: February 2006

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures the COMINT upgrade modification that will add a COMINT System to M1, M2, M3, C1 and C2. This includes a complete Acquisition and DF antenna manifold, TSP system, navigation interfaces, and MMI. This will allow the ARL's 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. FY09 funding is for installation and test of the last COMINT system.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	4QFY05	1QFY07	1QFY08
Long Lead/Software Dev	4QFY06	1QFY08	1QFY09
System Acceptance Test	1QFY07	2QFY08	2QFY09
System Fielding	2QFY07	3QFY08	3QFY09

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	6									1	1	1	1	1	1	1			1		
Outputs	6										1	1	1	1	1	1	1			1	

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		14
Outputs																		14

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

Contract Dates:	FY 2006 -	FY 2007 -	FY 2008 -
Delivery Dates:	FY 2006 -	FY 2007 -	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Data	0																			
Installation Kits	6	0.6	3	2.7			4	3.6	1	0.9									14	7.8
Installation Kits, Nonrecurring	0	0.8		1.8																2.6
Equipment	0	2.4		7.6				1.0		0.5										11.5
Equipment, Nonrecurring	0	1.5		2.2																3.7
Testing	0	0.6		0.5				0.5		0.1										1.7
Software	0	0.4		1.8								0.5								2.7
Govt In-House/Program Mgt	0	1.1						0.1		0.1		0.1								1.4
Engineering Change Orders	0	0.5						1.0												1.5
Support Equipment (Spares)	0			0.7						0.2										0.9
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	6	2.4																	6	2.4
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0		3	1.2			1	0.4											4	1.6
FY2008 Equip -- Kits	0								3	1.2									3	1.2
FY2009 Equip -- Kits	0										1	0.4							1	0.4
TC Equip- Kits	0																			
Total Installment	6	2.4	3	1.2	0	0.0	1	0.4	3	1.2	1	0.4	0	0.0	0	0.0	0	0.0	14	5.6
Total Procurement Cost		10.3		18.5		0.0		6.6		3.0		1.0		0.0		0.0		0.0		39.4

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Aircraft Standardization [MOD 7] 8-88-88-0000

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

DESCRIPTION / JUSTIFICATION:

FY07 procures the Aircraft Standardization modification to provide an ARL modified cockpit suitable for operations until replaced. The original ARL Cockpit specification, design and layout was conceived and implemented in the early 1990's using 1980's technology. Over the course of many years, numerous upgrades have been accomplished to keep the aircraft in compliance with FAA/Army regulations, CNS/ATM (formally FANS/GATM) airspace requirements, and replace obsolete components. The FY07-FY09 funding will provide for a complete cockpit replacement that will keep ARL relevant, sustainable, and facilitate compliance with the next generation of CNS/ATM, known as the Integrated Global Surveillance and Guidance Systems (IGSAGS). By upgrading the cockpit with the recommended equipage consisting of new flight displays, situational awareness systems, airborne data links, enhanced navigation/surveillance systems and various other support components, the ARL fleet will be equipped and poised to migrate into IGSAGS compliance and continue to be in compliance with Army/FAA regulations.

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	1QFY07	1QFY08	1QFY09
System Status Review	1QFY07	1QFY08	1QFY09
System Acceptance Test	4QFY08	1QFY09	1QFY10
System Fielding	2QFY08	2QFY09	2QFY10

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	2													4				2			
Outputs	2														2	2			1	1	

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	2																	10
Outputs		1	1															10

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

Contract Dates:	FY 2006 -	FY 2007 -	FY 2008 -
Delivery Dates:	FY 2006 -	FY 2007 -	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Aircraft Standardization [MOD 7] 8-88-88-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Data	0																			
Installation Kits	2	0.2					4	7.2	2	3.6	2	3.6							10	14.6
Installation Kits, Nonrecurring	0	0.2						0.4												0.6
Equipment	0	0.2																		0.2
Testing	0	0.1						1.3		0.3		0.3								2.0
Engineering Change Orders	0																			
Contractor Engineering	0	0.1																		0.1
Training Equipment	0																			
Support Equipment	0																			
Govt In-House/Program Mgt	0	0.1						0.1		0.1		0.1								0.4
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	2	0.2																	2	0.2
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0								4	2.0									4	2.0
FY2009 Equip -- Kits	0										2	1.0							2	1.0
TC Equip- Kits	0												2	1.0					2	1.0
Total Installment	2	0.2	0	0.0	0	0.0	0	0.0	4	2.0	2	1.0	2	1.0	0	0.0	0	0.0	10	4.2
Total Procurement Cost		1.1		0.0		0.0		9.0		6.0		5.0		1.0		0.0		0.0		22.1

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: ARL-C to ARL-M Conversion [MOD 9] 0-00-07-7777

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

DESCRIPTION / JUSTIFICATION:

FY07 procures the conversion of the ARL-Cs into full multi-function aircraft. 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	1QFY07
System Status Review	1QFY07
System Acceptance Test	3QFY08
System Fielding	1QFY09

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs														2							
Outputs															2						

	FY 2010				FY 2011				FY 2012				FY 2013				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: 0 months PRODUCTION LEADTIME: 0 months

Contract Dates:	FY 2006 -	FY 2007 -	FY 2008 -
Delivery Dates:	FY 2006 -	FY 2007 -	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): ARL-C to ARL-M Conversion [MOD 9] 0-00-07-7777

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							2	9.0											2	9.0
Installation Kits, Nonrecurring								1.9												1.9
Equipment								3.5												3.5
Equipment, Nonrecurring																				
Engineering Change Orders								0.5												0.5
Data																				
Test								0.4												0.4
Support Equipment																				
Program Management								0.1												0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits									2	0.6									2	0.6
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6
Total Procurement Cost		0.0		0.0		0.0		15.4		0.6		0.0		0.0		0.0		0.0		16.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	834.9	43.5	596.2	794.4	645.9	639.8	488.5	472.6	5944.5	10460.5
Less PY Adv Proc				18.7	19.0	18.0	9.0	8.9	77.4	151.0
Plus CY Adv Proc			18.7	19.0	18.0	9.0	8.9	9.1	68.3	151.0
Net Proc P1	834.9	43.5	615.0	794.6	644.9	630.8	488.4	472.8	5935.4	10460.5
Initial Spares			1.5	2.9	3.9					8.3
Total Proc Cost	834.9	43.5	616.5	797.5	648.8	630.8	488.4	472.8	5935.4	10468.8
Flyaway U/C										
Weapon System Proc U/C										

Description:

Current program provides for an Apache Attack Helicopter fleet consisting of 117 AH-64A model and 597 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, and 3 aircraft were added to this budget line by Title IX in FY 06. Principal aircraft components are: the Target Acquisition Designation Sight (TADS) is housed in a turret on the nose of the AH-64 and consists of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/ Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the co-pilot/gunner's FLIR. 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:

Apache Modernizations provide near term improvements to the Apache fleet, focusing on reliability and safety (R&S) upgrades and addressing operational deficiencies. The Modernized TADS/PNVS (M-TADS/PNVS) program provides a second generation FLIR (SGF) sensor suite to the Apache. This exhibit identifies FY06-FY11 funding for 547 of a total of 612 M-TADS multiyear production units and associated displays. The Longbow budget line augments funding for the remaining 65 MTADS multiyear production units (FY06). The Internal Auxiliary Fuel System (IAFS)/Combo-Pak provides additional 100 gallon fuel tank for extended range plus a 30 MM 246 round ammo pack. This is a Task Force Hawk initiative increasing performance in the Global War on Terrorism. Modifications specifically for the AH-64D include Selected Component Recapitalization, FCR Obsolescence, Trainer Upgrades, and the Longbow Apache Block III. Modifications also include the remanufacture of an additional 96 AH-64A to the AH-64D configuration via Multiyear procurement (AH-64 Apache Extended Block II Upgrade). The Block III Modernization is an incremental integration of block modifications providing the capabilities for the Longbow Apache to transition to the future force, to increase survivability, and reduce the logistics footprint. Block III satisfies the updated Longbow Apache Operational Requirements Document (ORD) mandates for modernization.

FY 2007 funds procure: TADS/PNVS Upgrades, Miscellaneous mods, M-TADS/PNVS and asssociated displays, Internal Auxiliary Fuel System (IAFS), Reliability & Safety (R & S) modifications, Selected Component Recapitalization, FCR Obsolescence and Integration, Apache Transformation, 36 ea AH-64 Extended Block II Upgrade aircraft (Multi-year Procurement FY 07-09), and AH-64 Post Production Organic Support.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

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	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
TADS/PNVS Upgrades											
1-94-01-2005		94.8	13.9	13.2	5.4	9.4	10.6	0.0	0.0	0.0	147.3
AH-64A MISC Mods $5M or less (no P3a set)											
		695.6	4.9	21.2	3.3	5.8	6.3	0.0	0.0	0.0	737.1
Apache Transformation											
		18.5	10.6	5.5	2.7	4.2	3.8	0.0	0.0	0.0	45.3
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		45.0	14.1	250.5	206.6	98.9	125.0	0.0	0.0	0.0	740.1
701C Engines (no P3a set)											
		40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
Internal Auxiliary Fuel System (IAFS)											
		0.0	0.0	26.4	23.3	7.4	39.0	17.0	0.0	0.0	113.1
AH-64 R&S & Recap											
		11.0	0.0	144.8	76.3	2.8	13.6	19.0	0.0	0.0	267.5
AH-64D Block III											
		0.0	0.0	0.0	0.0	6.0	110.2	420.1	472.8	5935.4	6944.5
Fire Control Radar (FCR)Obsolescence & Integration											
		0.0	0.0	4.9	4.0	3.8	0.0	0.0	0.0	0.0	12.7
AH-64 Training Devices											
		0.0	0.0	44.2	0.0	0.0	0.0	0.0	0.0	0.0	44.2
AH-64 Block II Upgrade											
		0.0	0.0	29.0	471.7	504.5	299.1	2.6	0.0	0.0	1306.9
AH-64 Post Production Organic Support											
		0.0	0.0	1.1	1.3	2.1	23.3	29.7	0.0	0.0	57.5
AH-64D Longbow Replacement Aircraft											
0-00-00-0000		0.0	0.0	74.1	0.0	0.0	0.0	0.0	0.0	0.0	74.1
Totals		904.9	43.5	614.9	794.6	644.9	630.9	488.4	472.8	5935.4	10530.3

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: TADS/PNVS Upgrades [MOD 1] 1-94-01-2005

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Operational, and logistical improvement.

Provides for 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 (96 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.

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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	439	10	10	10	10	11	11	6	6	6	6	6	9	9	9	9	9	9	6	6	
Outputs	394	18	16	15	15	15	14	14		6	6	6	6	9	9	9	9	9	9	9	9

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																	0	597
Outputs																		597

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

Contract Dates: FY 2006 - Dec 05 FY 2007 - Dec 06 FY 2008 - Dec 07

Delivery Dates: FY 2006 - Jan 06 FY 2007 - Jan 07 FY 2008 - Jan 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): TADS/PNVS Upgrades [MOD 1] 1-94-01-2005

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity	402		64		35		24		36		36								597	
T/P FFP/T&M/CFE/O&A	0	66.0		10.7		7.0		4.6		7.4		7.6								103.3
Equipment (GFE)	0	28.0		2.6		5.3		0.0		1.4		2.0								39.3
Other	0	0.8		0.6		0.9		0.8		0.6		1.0								4.7
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	274																		274	
FY2003 Equip -- Kits	60																		60	
FY2004 Equip -- Kits	60		8																68	
FY2005 Equip -- 64 Kits	0		56		8														64	
FY2006 Equip -- 35 Kits	0				35														35	
FY2007 Equip -- 24 Kits	0						24												24	
FY2008 Equip -- 36 Kits	0								36										36	
FY2009 Equip -- Kits	0										36								36	
TC Equip- Kits	0																			
Total Installment	394	0.0	64	0.0	43	0.0	24	0.0	36	0.0	36	0.0	0	0.0	0	0.0	0	0.0	597	0.0
Total Procurement Cost		94.8		13.9		13.2		5.4		9.4		10.6		0.0		0.0		0.0		147.3

INDIVIDUAL MODIFICATION Date: February 2006

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 and Display Sight System (IHADSS) 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 IHADSS upgrades exploit the expanded capability of the M-TADS/PNVS. The current FY 06-FY 09 multiyear contract procures 612 units, of which 547 are funded on this budget line, and the remaining 65 on the Longbow budget line. M-TADS installation costs are not separately priced in the contract. Other Support procures TDA Salaries, In-house Matrix and Contractor Support for the Apache PMO. GFE, factory and retrofit installation and integration costs, TEDAC, IHADSS and other support are not part of the Multiyear. Output schedule planning based on aircraft availability & acceptance of installation by unit commander.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Oct 00 -- MTADS/PNVS EMD/SDD contract award June 05 -- MTADS/PNVS FUE
Jan 01 -- Preliminary Design Review (PDR); Aug 01 -- Critical Design Review (CDR)
May 02 -- Qualification testing
Jul 03 -- MTADS/PNVS Advanced Procurement Contract award
Dec 03 -- MTADS/PNVS Production Contract Award
Apr 04 -- SDD Contract completion
Jan 05 -- MTADS/PNVS Lot 2 Production Contract Award Apr 06 -- MY Contract Award

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	0	0	2	0	0	2	0	0	2	2	2	15	56	56	51	40	56	44	25	25
Outputs	0	0	0	2	0	0	2	0	0	0	2	2	17	56	48	59	40	56	44	18	24

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	29	29	29	30	35	27												557
Outputs	28	24	17	48	43	18	9											557

METHOD OF IMPLEMENTATION: Contract Lot 3 ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 19 months

Contract Dates: FY 2006 - Apr 06 FY 2007 - Feb 07 FY 2008 - Feb 08

Delivery Dates: FY 2006 - Oct 07 FY 2007 - Aug 08 FY 2008 - Aug 09

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	4	23.6	6	8.2	146	205.5	182	141.5	91	77.8	128	120.0							557	576.6
Equipment, Nonrecurring	0	21.4																		21.4
TEDAC/IHDSS	0			5.9		25.0		52.9		16.3										100.1
Other Support	0					20.0		12.2		4.8		5.0								42.0
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip 4 Kits	0		2		2														4	
FY2005 Equip 6 Kits	0						6												6	
FY2006 Equip 146 Kits	0						15		131										146	
FY2007 Equip 182 Kits	0								72		110								182	
FY2008 Equip 91 Kits	0										32		59						91	
FY2009 Equip 128 Kits	0												58		70				128	
TC Equip- 0 Kits	0																			
Total Installment	0	0.0	2	0.0	2	0.0	21	0.0	203	0.0	142	0.0	117	0.0	70	0.0	0	0.0	557	0.0
Total Procurement Cost		45.0		14.1		250.5		206.6		98.9		125.0		0.0		0.0		0.0		740.1

INDIVIDUAL MODIFICATION Date: February 2006

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

FY06-09 funding will procure 425 Internal Auxiliary Fuel System (IAFS) Combo-paks and 93 A-Kits (A-kit quantity purchase includes a battalion's worth of spares) this meets the requirements established by Task Force Hawk, as approved for incorporation by the VCSA. The system is ballistically tolerant, crashworthy, self sealing and increases aircraft mission endurance by increasing fuel capacity by 100 gallons. This additional capacity provides increased mission time of 30-45 minutes which keeps the Apache in the fight longer and reduces 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. During ongoing OIF/OEF requirements the AH-64 in the Quick Reaction Force (QRF) and in support of Close Combat missions the Apache is required to remain on station longer to protect ground troops with immediate suppression by the 30mm weapon. Two hundred and ten A-kits installed in FY06 were funded in the Longbow budget line.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

November 05 Contract Awarded.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						53	52	53	52	12	11	11	11	12	12	12	12				
Outputs										53	52	53	52	12	11	11	11	12	12	12	12

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		303
Outputs																		303

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 3 months

Contract Dates: FY 2006 - Nov 05 FY 2007 - Nov 06 FY 2008 - Nov 07

Delivery Dates: FY 2006 - Feb 06 FY 2007 - Feb 07 FY 2008 - Feb 08

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
A Kits					45	1.0	48	1.0											93	2.0
B Kits					108	23.1	92	20.5	30	7.0	144	35.2	51	13.1					425	98.9
Support Equipment						0.9		1.5		0.1		3.8		3.9						10.2
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 210 Kits					210	1.4													210	1.4
FY 2007 Equip 45 Kits							45	0.3											45	0.3
FY 2008 Equip 48 Kits									48	0.3									48	0.3
FY 2009 Equip Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	210	1.4	45	0.3	48	0.3	0	0.0	0	0.0	0	0.0	0	0.0	303	2.0
Total Procurement Cost		0.0		0.0		26.4		23.3		7.4		39.0		17.0		0.0		0.0		113.1

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: AH-64 R&S & Recap [MOD 7]

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Apache Recapitalization Program was approved by the VCSA and the AAE in 10 April 2002. Apache Modernizations and Recapitalization provides near term improvements to 321 Apache aircraft (toward a total requirement of 425 aircraft), focusing on reliability and safety (R&S) upgrades and addresses operational deficiencies. The R&S modifications and selected component recapitalization are being accomplished by the remanufacture line, field retrofits and through spares. The principal improvements focus on: main transmission, rotor blades, gear boxes, and hydraulic systems. Funding also provides for selected component recapitalization and insertion of R&S modification for the Apache fleet. This funding supports the incorporation of recapitalized components for the remanufacture of 96 additional aircraft to the Longbow configuration (Extended Block II). The program also includes select Task Force Hawk initiatives (i.e., HF Radio, Video, and New Video Recorder). The selected component recap fixes were identified through a Sandia National Laboratory analysis of components coupled with the results of a nonrecurring engineering analysis of components. These assessments ensure that the recapitalization resources are focused on the highest payoff components. In summary, the goal of this program is to improve safety, maximize marginal return on recapped components, enhance aircraft performance by increasing unscheduled mean time between removal (MTBR) for selected components, and reduce the average fleet age. Other support procures TDA Salaries, In-house Matrix and Contractor Support for the Apache Project Manager's Office.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 06 - Contract Option
Jan 07 - Contract Option

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs							5	24	24	24	24	24	24	24	24	24	24	24	24	17	11
Outputs							5	24	24	24	24	24	24	24	24	24	24	24	24	17	11

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		321
Outputs																		321

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 3 months

Contract Dates: FY 2006 - May 06 FY 2007 - Jan 07 FY 2008 - Jan 08

Delivery Dates: FY 2006 - Jul 06 FY 2007 - Mar 07 FY 2008 - Mar 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): AH-64 R&S & Recap [MOD 7]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					192	128.0	129	73.6				11.6		19.0					321	232.2
Other Support						15.4														15.4
Non-recurring engineering		11.0																		11.0
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 192 Kits					53	1.4	96	2.7	43	1.2									192	5.3
FY 2007 Equip 129 Kits									53	1.6	76	2.0							129	3.6
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	53	1.4	96	2.7	96	2.8	76	2.0	0	0.0	0	0.0	0	0.0	321	8.9
Total Procurement Cost		11.0		0.0		144.8		76.3		2.8		13.6		19.0		0.0		0.0		267.5

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: AH-64 Training Devices [MOD 10]

MODELS OF SYSTEM AFFECTED: AH-64D Longbow Apache

DESCRIPTION / JUSTIFICATION:

FY 06 Funding support Longbow Apache training devices, to include: the Upgrade of Longbow Crew Trainers (LCT) with new image generators and more robust threat environment; replacement of select obsolescent components in LCT and AH-64D Multiplex, Avionics, Visionics, Weapons & Electrical Systems (Maintenance) Trainers (MAVWEST-L7); modification of Longbow Controls & Displays Selected Task Trainers (LCDSTT) to Lot 10 AH-64D aircraft configuration; and establishment of Operator and Maintainer Trainer capabilities for post-production upgrades to Longbow Training Device Suite (TDS) in support of AH-64D Block III concurrency.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award - Second Quarter FY 06.

Installation Schedule

	Pr Yr Totals	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		0
Outputs																		

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

Contract Dates: FY 2006 - March 06 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - June 06 FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): AH-64 Training Devices [MOD 10]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Training Equipment						44.2														44.2
..																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 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		44.2		0.0		0.0		0.0		0.0		0.0		0.0		44.2

INDIVIDUAL MODIFICATION Date: February 2006

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funding for the AH-64 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 96 AH-64A aircraft to the AH-64D (Lots 11-13) 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. Advance Procurement is identified in FY06 through FY08 on the P-10 exhibits. Procurement is planned via a Multi-year Contract, FY 06-09. Government Furnished Equipment, Other Support and Training are not part of the Multi-year Contract.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Multi-Year Contract Award, Lot 11 -13 -- October 2006 (FY 07)

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	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	9	9	9	9	9	9	6	
Outputs														9	9	9	9	9	9	9	9

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		96
Outputs	9	9	6															96

METHOD OF IMPLEMENTATION: Firm Fixed Price ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 12 months
Contract

Contract Dates: FY 2006 - FY 2007 - Oct 06 FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - Oct 07 FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Kit Quantity							36		36		24								96	
Equipment								423.3		454.6		280.2								1158.1
Advance Procurement (P-10)						18.7		19.0		12.0										49.7
Other Supoort						10.3		29.4		37.9		18.9								96.5
Training														2.6						2.6
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits									36										36	
FY 2008 Equip -- 36 Kits											36								36	
FY 2009 Equip -- 36 Kits													24						24	
FY 2010 Equip -- 24 Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	36	0.0	36	0.0	24	0.0	0	0.0	0	0.0	96	0.0
Total Procurement Cost		0.0		0.0		29.0		471.7		504.5		299.1		2.6		0.0		0.0		1306.9

INDIVIDUAL MODIFICATION Date: February 2006

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

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

Funding will procure three (3) Longbow aircraft (without Fire Control Radar) to replace those helicopters attrited during Operations Iraqi Freedom and Operation Enduring Freedom (OIF/OEF). Essentially, these 3 replacement aircraft will be the same configuration as Lot 10 of the current Multi-year II contract, but will be fitted with a new fuselage rather than a remanufactured one. Deliveries are scheduled for May 2007. This period is after Multiyear II and before the start of the extended Block II REMAN program (Lot 11) production delivery starting October 2007.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Boeing submittal of Proposal, January 2006
Proposed contract award, May 2006
Delivery (3); May 2007

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs								3													
Outputs												3									

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		3
Outputs																		3

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 8 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2006 - May 06 FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - May 07 FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement					3	74.1													3	74.1
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- 3 a/c							3												3	
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
Total Procurement Cost		0.0		0.0		74.1		0.0		0.0		0.0		0.0		0.0		0.0		74.1

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Less PY Adv Proc										
Plus CY Adv Proc			18.7	19.0	18.0	9.0	8.9	9.1	68.3	151.0
Net Proc P1			18.7	19.0	18.0	9.0	8.9	9.1	68.3	0.0
Initial Spares										
Total Proc Cost			18.7	19.0	18.0	9.0	8.9	9.1	68.3	151.0
Flyaway U/C										
Weapon System Proc U/C										

Description:

Description:

The AH-64 MODS upgrade program encompasses modification of an additional 96 AH-64A Apaches to AH64D Apache Longbow configuration (Block II) as well as upgrades to 501 aircraft systems for the AH-64D series to the Apache Longbow Block III configuration. Longbow provides an adverse weather fire-and-forget missile capability that increases lethality and survivability. The Longbow Apache also retains the capability to fire the Semi-Active Laser Hellfire. The design enhancements increase operational capability of the crew and provide increased survivability and lethality.

Justification:

Justification:

FY07 Advanced Procurement funds support deliveries of airframes for AH-64A Apaches which will be remanufactured to the common AH-64D configuration bringing the total to 597 AH-64A to AH-64D conversion.

Advance Procurement Requirements Analysis-Funding (P-10A)

First System Award Date:	First System Completion Date:	Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 2 / Modification of aircraft

P-1 Line Item Nomenclature / Weapon System:
AH-64 MODS

($ in Millions)

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Quantity												
Airframe - AH-64 Block II Upgrade	12	12			18.7	19.0	12.0					49.7
AH-64 Block III	12	12					6.0	9.0	8.9	9.1	68.3	101.3
Total Advance Procurement			**0.0**	**0.0**	**18.7**	**19.0**	**18.0**	**9.0**	**8.9**	**9.1**	**68.3**	**151.0**

End Item Quantities for AH-64 Block II Upgrade and AH-64 Block III Programs are as follows:
AH-64 Block II Upgrade (FY07-36 Aircraft); (FY08-36 Aircraft); (FY09-24 Aircraft)

Advance Procurement Requirements Analysis-Funding (P-10B)

Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 2 / Modification of aircraft

P-1 Line Item Nomenclature / Weapon System:
AH-64 MODS

($ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2007 Qty	2007 Contract Forecast Date	2007 Total Cost Request
Airframe - AH-64 Block II Upgrade	12			36.0	2Q FY07	19.0
AH-64 Block III	12					
Total Advance Procurement						**19.0**

Advance Procurement Requirements Analysis-Execution (P-10D)

Appropriation / Budget Activity / Serial No:	P-1 Line Item Nomenclature / Weapon System:
Aircraft Procurement, Army / 2 / Modification of aircraft	AH-64 MODS

($ in Millions)

		2005					2006		2007	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity										
Airframe - AH-64 Block II Upgrade	12						36	1Q FY06	36	2Q FY07
AH-64 Block III	12									
Total Advance Procurement										

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	5561.4	848.7	697.0	607.7	741.5	1070.7	867.0	988.8	6658.5	18041.4
Less PY Adv Proc	975.1	20.4	23.7	24.4	36.7	59.6	48.8	55.9	371.7	1616.3
Plus CY Adv Proc	995.5	23.7	24.4	36.7	59.6	48.8	55.9	46.3	325.4	1616.3
Net Proc P1	5581.8	852.1	697.7	620.0	764.4	1059.9	874.0	979.2	6612.2	18041.4
Initial Spares	9633.2		1.5	2.0	2.0	2.0	2.0	2.0	14.0	9658.8
Total Proc Cost	15215.0	852.1	699.2	622.1	766.4	1062.0	876.1	981.2	6626.2	27700.2
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's 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's 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 all CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration. In addition to recapitalization, a new build program will add new Chinooks to the inventory starting in FY06. These programs are funded to meet the Army Aviation Transformation Plan full requirement for Chinook aircraft.

Justification:

FY 2007 funding procures safety and operational modifications to the CH-47D fleet and trainers to maintain the latest configuration. Safety and operational modifications, 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 Conversion of the T55-L-712 to T55-GA-714A Engines, Engine Fire Extinguisher, Engine Filtration System, Low Maintenance Rotor Hub, Aviation Combined Arms Tactical Trainer and conversion of 15 CH-47Ds to CH-47Fs, 2 new build CH-47Fs, 6 MH-47G Special Operations Aircrafts, Ballistic Protection Systems, and Special Test Sets, Kits and Outfits to equip new Chinook units forming under the Army's Aviation Transformation Plan.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

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	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Engine Filtration System											
1-93-01-0807	Operational	19.9	6.7	7.7	8.5	8.9	12.9	8.2	13.4	1.0	87.2
Engine Upgrade to T55-GA-714A Configuration											
1-96-01-0828	Operational	760.9	165.3	148.0	50.0	3.9	0.0	0.0	0.0	0.0	1128.1
CH-47F											
0-00-00-0000	Operational	808.7	643.3	512.8	526.8	712.0	1002.8	843.2	952.3	6338.5	12340.4
Low Maintenance Rotor Hub											
0-00-00-0000	Operational	16.1	9.7	10.1	9.3	10.8	11.4	0.0	0.0	0.0	67.4
Engine Fire Extinguisher (Halon Replacement)											
0-00-00-0000	Operational	0.0	2.6	7.2	8.2	8.3	8.4	9.3	0.0	0.0	44.0
Aviation Training Devices (AVCATT, MTD)											
0-00-00-0000		0.0	0.0	4.3	4.2	7.7	9.6	9.9	7.0	15.1	57.8
Transformation Sets, Kits and Outfits											
0-00-00-0000	Safety	0.0	24.5	6.1	4.9	4.8	5.9	0.0	0.0	0.0	46.2
CH-47 MISC Mods $5M or Less											
0-00-00-0000	Operational	0.0	0.0	3.0	10.2	10.0	11.0	5.5	8.5	0.0	48.2
Totals		1605.6	852.1	699.2	622.1	766.4	1062.0	876.1	981.2	6354.6	13819.3

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Engine Filtration System [MOD 1] 1-93-01-0807

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

DESCRIPTION / JUSTIFICATION:

Type of Improvement - Improved Operational Capability. This funding provides an engine filtration system to separate sand and dust at the engine inlet to allow clean air to flow into the engine. For missions requiring extended operation at very low altitudes over sand and dust terrain, separation of sand and dust at engine inlet is a necessity to assure normal engine life for sustained operations. Procurement of this system is essential to assure operation in sandy or dusty regions. This effort is a follow-on to modify an existing engine filtration system design, modify existing kits and procure new kits.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Design Review - Sep 99
Production Contract - Oct 01
Hardware Delivery - Oct 02
Field Installation - Jan 03

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	26	4	5	5	5	6	6	7	7	4	4	4	5	6	6	6	7	9	9	9	10
Outputs	26	4	5	5	5	6	6	7	7	4	4	4	5	6	6	6	7	9	9	9	10

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	7	7	7	9	8	8	9	9	6	6	7	7	6	6	7	7	71	337
Outputs	7	7	7	9	8	8	9	9	6	6	7	7	6	6	7	7	71	337

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

Contract Dates: FY 2006 - Apr 06 FY 2007 - Jan 07 FY 2008 - Jan 08

Delivery Dates: FY 2006 - Jan 07 FY 2007 - Jan 08 FY 2008 - Jan 09

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Engine Filtration System [MOD 1] 1-93-01-0807

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
B-Kit Quantity	47	14.4	16	5.5	19	6.4	21	7.1	29	7.3	31	11.0	32	6.8	33	11.6			228	70.1
A-Kits	337	3.8																	337	3.8
Logistics	0	0.7		0.7		0.8		0.9		0.9		0.9		0.9		0.9				6.7
PM Support	0	0.8		0.3		0.3		0.4		0.5		0.7		0.3		0.6				3.9
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	26	0.2	9	0.1															35	0.3
FY2003 Equip -- Kits	0		10	0.1	26	0.2	17	0.1	25	0.2	37	0.3	30	0.2	8	0.1	27	0.2	180	1.4
FY2004 Equip -- Kits	0														26	0.2	96	0.8	122	1.0
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	26	0.2	19	0.2	26	0.2	17	0.1	25	0.2	37	0.3	30	0.2	34	0.3	123	1.0	337	2.7
Total Procurement Cost		19.9		6.7		7.7		8.5		8.9		12.9		8.2		13.4		1.0		87.2

INDIVIDUAL MODIFICATION Date: February 2006

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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	262	12	12	13	13	17	17	17	18	7	7	7	8	17	15						
Outputs	262	12	12	13	13	17	17	17	18	7	7	7	8	17	15						

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		442
Outputs																		442

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

Contract Dates:	FY 2006 - Jan 06	FY 2007 - Jan 07	FY 2008 - Jan 08
Delivery Dates:	FY 2006 - Jul 07	FY 2007 - Jul 08	FY 2008 - Jul 09

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
New Engines	749	570.6	160	129.7	147	121.3	50	41.8											1106	863.4
Engine Fielding Kits	663	77.4	142	15.8	79	9.1													884	102.3
Airframe Kits	371	36.0	48	5.7	23	2.8													442	44.5
PM Admin Support	0	28.6		5.5		4.6		3.4												42.1
Logistics	0	35.6		5.2		5.5		2.8		1.7										50.8
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	262	12.7	13	0.9															275	13.6
FY2003 Equip -- Kits	0		37	2.5	11	0.7													48	3.2
FY2004 Equip -- Kits	0				48	3.3													48	3.3
FY2005 Equip -- Kits	0				10	0.7	29	2.0	9	0.6									48	3.3
FY2006 Equip -- Kits	0								23	1.6									23	1.6
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	262	12.7	50	3.4	69	4.7	29	2.0	32	2.2	0	0.0	0	0.0	0	0.0	0	0.0	442	25.0
Total Procurement Cost		760.9		165.3		148.0		50.0		3.9		0.0		0.0		0.0		0.0		1128.1

INDIVIDUAL MODIFICATION Date: February 2006

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. This budget line for the CH-47F program procures 510 aircraft out of the Army's Aviation Transformation Chinook total requirement of 513 aircraft. Three MH-47G aircraft were procured previously with unique Special Operations/Congressional funding outside of this budget line item. The total requirement of 513 aircraft consists of 55 new build CH-47Fs, 61 special operations MH-47Gs (which includes the three unique Special Operations/Congressionally funded helicopters mentioned above) and 397 remanufactured CH-47Fs. 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.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

EMD Contract Award - May 98
Plant Facilitization - Apr 01
LRIP I Contract Award - Dec 02
LRIP II Contract Award - Dec 03
MS III Production Decision - Nov 04
FRP Contract Award - Dec 04

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		0

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

Contract Dates:	FY 2006 - Dec 05	FY 2007 - Mar 07	FY 2008 - Jun 08
Delivery Dates:	FY 2006 - Dec 06	FY 2007 - Mar 08	FY 2008 - Jun 09

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Recurring Production (New Build)	7	177.7	10	242.6	3	67.3	2	53.0	5	123.4	14	347.5	7	174.9	8	202.3	13	369.7	69	1758.4
Recurring Production (Mods)	23	393.3	16	234.7	21	354.1	21	385.7	25	485.1	27	529.3	27	553.3	30	616.5	251	4910.4	441	8462.4
Other Flyaway		178.9		40.4		33.7		41.7		45.8		65.1		51.1		57.3		380.7		894.7
Training		48.7		34.4		21.7		11.2		19.9		22.4		20.9		23.3		42.0		244.5
Other Support		9.0		87.9		30.9		31.5		31.3		31.7		33.3		43.8		563.2		862.6
Support Equipment		1.1		3.3		5.1		3.7		6.5		6.8		9.7		9.1		72.5		117.8
--																				
--																				
--																				
--																				
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 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		808.7		643.3		512.8		526.8		712.0		1002.8		843.2		952.3		6338.5		12340.4

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Low Maintenance Rotor Hub [MOD 4] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D&F

DESCRIPTION / JUSTIFICATION:

The Low Maintenance Rotor (LMR) hub will replace the current hubs that are the number two and number three Operation and Support cost drivers in the CH-47 fleet. Utilizing elastomeric and self-lubricating bearing design features, the LMR will eliminate an average of ten days of unscheduled maintenance per year/per aircraft. The new hub will have about 60 percent fewer parts and a projected 4500-hour life for all machined part components. All components will be field replaceable and will not require scheduled overhaul by Depot. The LMR will be inter-changeable with the existing hub and retain the same flight dynamics. The initial production contract will procure new Hubs for the CH-47F production line to meet component recapitalization standards until LMR hubs are delivered.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Critical Design Review (CDR) - Dec 00
Production Contract Award - Mar 04
LMRH Production Contract Award - Mar 07

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 15 months

Contract Dates:	FY 2006 - Mar 06	FY 2007 - Mar 07	FY 2008 - Mar 08
Delivery Dates:	FY 2006 - Jun 07	FY 2007 - Jun 08	FY 2008 - Jun 09

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Low Maintenance Rotor Hub [MOD 4] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Low Maintenance Rotor Head	0	11.3		8.5		8.9		9.0		10.5		11.1								59.3
Training	0	0.5		0.6		0.6														1.7
Logistics	0	3.8		0.3		0.3														4.4
PM Support	0	0.5		0.3		0.3		0.3		0.3		0.3								2.0
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		16.1		9.7		10.1		9.3		10.8		11.4		0.0		0.0		0.0		67.4

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Engine Fire Extinguisher (Halon Replacement) [MOD 5] 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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0							31	43	21	21	21	22	21	21	21	22	21	21	21	22
Outputs	0							31	43	21	21	21	22	21	21	21	22	21	21	21	22

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	23	23	23	23														421
Outputs	23	23	23	23														421

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

Contract Dates: FY 2006 - Apr 06 FY 2007 - Jan 07 FY 2008 - Jan 08

Delivery Dates: FY 2006 - Oct 06 FY 2007 - Jun 07 FY 2008 - Jun 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Engine Fire Extinguisher (Halon Replacement) [MOD 5] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
A-Kit Quantity	0				74	2.1	85	2.5	85	2.5	85	2.5	92	2.8					421	12.4
Engineering Support	0			2.5		0.2		0.0		0.0		0.0		0.0						2.7
Logistics	0					0.1		0.2		0.2		0.2		0.2						0.9
PM Support	0			0.1		0.2		0.1		0.1		0.1		0.1						0.7
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0				74	4.6													74	4.6
FY2007 Equip -- Kits	0						85	5.4											85	5.4
FY2008 Equip -- Kits	0								85	5.5									85	5.5
FY2009 Equip -- Kits	0										85	5.6							85	5.6
TC Equip- Kits	0												92	6.2					92	6.2
Total Installment	0	0.0	0	0.0	74	4.6	85	5.4	85	5.5	85	5.6	92	6.2	0	0.0	0	0.0	421	27.3
Total Procurement Cost		0.0		2.6		7.2		8.2		8.3		8.4		9.3		0.0		0.0		44.0

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Aviation Training Devices (AVCATT, MTD) [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Aviation Combined Arms Tactical Trainer (AVCATT) is a new aviation collective training virtual simulation system specifically designed to help commanders achieve and sustain unit proficiency and combat readiness and to support leader development training at the institution. System capabilities directly support "train as you fight" and allow commanders to focus on and tailor training to specific battle focused training requirements. Units will train as units, not as individuals or aircrews. Commanders and staff personnel will plan and command and control, and aircrews will plan and execute. Training will be observed, recorded, evaluated, and repeated as necessary to train tasks to standard and to reach the desired level of proficiency at the desired level of complexity. AVCATT will be a mobile, transportable, trailerized virtual simulation training system that will provide aviation with the capability to conduct realistic, high intensity, task-loaded collective and combined arms training exercises and mission rehearsals. It will support institutional, organizational, and sustainment training for Active Component (AC) and Reserve Component (RC) aviation units worldwide. The baseline AVCATT configuration is designed to include the CH-47D and development is funded by STRICOM. It is the responsibility of PM Cargo to fund the development of concurrency upgrades stemming from the introduction of the CH-47F.

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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

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

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Aviation Training Devices (AVCATT, MTD) [MOD 6] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
AVCATT Upgrades	0						8	3.9	7	3.2	2	0.9							17	8.0
MTD Upgrades	0								2	3.1	4	7.2	5	8.3	3	5.4	9	14.4	23	38.4
Engineering Support						4.1		0.1		1.2		1.2		1.3		1.3				9.2
logistics/Logistics Trainers						0.2		0.2		0.2		0.3		0.3		0.3		0.7		2.2
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		4.3		4.2		7.7		9.6		9.9		7.0		15.1		57.8

INDIVIDUAL MODIFICATION Date: February 2006

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 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs	0																				

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		0

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

Contract Dates:	FY 2006 - Mar 06	FY 2007 - Mar 07	FY 2008 - Mar 08
Delivery Dates:	FY 2006 - Oct 06	FY 2007 - Oct 07	FY 2008 - Oct 08

INDIVIDUAL MODIFICATION Date: February 2006

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
SKOs	0		10	24.5	2	6.1	2	4.7	2	4.6	2	5.6							18	45.5
PM Support								0.2		0.2		0.3								0.7
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		24.5		6.1		4.9		4.8		5.9		0.0		0.0		0.0		46.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	CH-47 CARGO HELICOPTER MODS (Adv. Proc.) (AA0252)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Less PY Adv Proc										
Plus CY Adv Proc	995.5	23.7	24.4	36.7	59.6	48.8	55.9	46.3	325.4	1616.3
Net Proc P1	995.5	23.7	24.4	36.7	59.6	48.8	55.9	46.3	325.4	0.0
Initial Spares										
Total Proc Cost	995.5	23.7	24.4	36.7	59.6	48.8	55.9	46.3	325.4	1616.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
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 CH-47F program fills the Army's Aviation Transformation Chinook requirement. 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 includes 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.

Justification:
FY 2007 funding procures long lead time parts and materials required to preserve the production delivery schedule.

Advance Procurement Requirements Analysis-Funding (P-10A)

First System Award Date:	First System Completion Date:	Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 2 / Modification of aircraft

P-1 Line Item Nomenclature / Weapon System:
CH-47 CARGO HELICOPTER MODS

($ in Millions)

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Quantity												
Avionics	13	14	9.1	15.4	16.0	24.5	34.7	30.1	33.8	29.3	205.4	398.3
Airframe	15	16	4.9	8.3	8.4	12.2	24.9	18.7	22.1	17.0	120.0	236.5
Total Advance Procurement			**14.0**	**23.7**	**24.4**	**36.7**	**59.6**	**48.8**	**55.9**	**46.3**	**325.4**	**634.8**

Advance Procurement Requirements Analysis-Funding (P-10B)

Date: February 2006

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 2 / Modification of aircraft

P-1 Line Item Nomenclature / Weapon System:
CH-47 CARGO HELICOPTER MODS

($ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2007 Qty	2007 Contract Forecast Date	2007 Total Cost Request
Avionics	13	1	1.0	29.0	Nov 06	24.5
Airframe	15	1		29.0	Nov 06	12.2
Total Advance Procurement						**36.7**

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	UTILITY/CARGO AIRPLANE MODS (AA0270)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5		149.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5		149.4
Initial Spares										
Total Proc Cost	81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5		149.4
Flyaway U/C										
Weapon System Proc U/C										

Description:
The budget line updates and modernizes the C-31A, UV-18, C-12, RC-12, UC-35, C-23, and C-26 fixed wing aircraft communication, navigation, surveillance and Department of Defense (DoD) mandated safety equipment to current and evolving international standards. Furthermore, any spares and test equipment necessary to support the modification will be procured. In addition, it provides for the procurement and installation of military unique equipment. These modifications ensure continued worldwide deployment capability and safe operations.

Justification:
FY 2007 procures communications, navigation, and surveillance equipment that supports current and future Air Traffic Management requirements. In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrade will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirements for new avionics equipment continue, aircraft delays and airspace exclusion are likely for aircraft not properly equipped. Upgrade of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements. The associated aircraft modifications will assure worldwide deployability.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	UTILITY/CARGO AIRPLANE MODS (AA0270)		
Program Elements for Code B Items:		Code:	Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Avionics System Cockpit Upgrade											
1-96-01-0612	UNCLASSIFIED	81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5	0.0	149.3
Totals		81.9	10.0	13.4	10.0	6.8	6.5	10.2	10.5	0.0	149.3

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Avionics System Cockpit Upgrade [MOD 1] 1-96-01-0612

MODELS OF SYSTEM AFFECTED: C-31A, UV-18, C-12 series, RC-12 series, C-26B, UC-35 series, and C-23C

DESCRIPTION / JUSTIFICATION:

This effort will modernize Fixed Wing aircraft communications, navigation, surveillance, and safety equipment to current and future international requirements, enhance fleet standardization, allow worldwide deployments and continued safe operations into the 21st Century. As currently equipped, the aircraft will not be suitable for worldwide deployment nor capable of using modern navigation and air traffic control facilities. The following equipment is included in this upgrade: Flight Management System, Displays, Terrain Awareness Warning System, 8.33kHz radios, APX 119 Mode S upgrade, Satellite Communications (SATCOM), Traffic Alert Collision Avoidance System II, Flight Data Recorder, Cockpit Voice Recorder, High Frequency Radios, Weather Radars, Data Link Capability, and Communications Management Unit. The preceding components reflect critically needed items. However, Air Traffic Management and DOD Navigation Warfare requirements are evolving and will require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Additionally, kit configurations vary based on the aircraft that they will be installed on. Consequently, kit and installation unit cost will vary significantly from year to year.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is not required for Avionics System Cockpit Upgrade.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	83				5			6	6			4	4			20	21			7	7
Outputs	83					5			6	6			4	4			20	21			7

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			10	9			3	3										188
Outputs	7			10	9			3	3									188

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 6 months

Contract Dates: FY 2006 - Feb 06 FY 2007 - Feb 07 FY 2008 - Feb 08

Delivery Dates: FY 2006 - Jul 06 FY 2007 - Jul 07 FY 2008 - Jul 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Avionics System Cockpit Upgrade [MOD 1] 1-96-01-0612

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity	0																			
Installation Kits	83	58.6	5	5.0	12	10.6	8	7.4	41	4.1	14	3.8	19	6.3	6	6.0			188	101.8
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0	0.4		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.1
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits	83	22.9																	83	22.9
FY2005 Equip -- Kits	0		5	4.9															5	4.9
FY2006 Equip -- Kits	0				12	2.7													12	2.7
FY2007 Equip -- Kits	0						8	2.5											8	2.5
FY2008 Equip -- Kits	0								41	2.6									41	2.6
FY2009 Equip -- Kits	0										14	2.6							14	2.6
FY2010 Equip -- Kits	0												19	3.8					19	3.8
FY2011 Equip -- Kits	0														6	4.4			6	4.4
TC Equip-Kits																				
Total Installment	83	22.9	5	4.9	12	2.7	8	2.5	41	2.6	14	2.6	19	3.8	6	4.4	0	0.0	188	46.4
Total Procurement Cost		81.9		10.0		13.4		10.0		6.8		6.5		10.2		10.5		0.0		149.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	AIRCRAFT LONG RANGE MODS (AA0560)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	14.8	0.8	0.8	0.4	0.3	0.6	0.8	0.8		19.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	14.8	0.8	0.8	0.4	0.3	0.6	0.8	0.8		19.3
Initial Spares										
Total Proc Cost	14.8	0.8	0.8	0.4	0.3	0.6	0.8	0.8		19.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
The budget line updates and modernizes the C-20F, C-20E, C-37A and C-37B fixed wing aircraft communications, and navigation equipment, enhancing the aircraft's capability for worldwide deployments. These aircraft support the Army's executive flight detachment at the three star and above level.

Justification:
FY 2007 procures new C-20/C-37 Communication, Navigation, and Surveillance equipment needed to support the crew in meeting the demands of the future air navigation system. Funds will be used to meet evolving avionics requirements resulting from worldwide navigation transition to Global Positioning System (GPS) enroute and approach systems, and Chairman of the Joint Chief of Staff Master Navigation Plan requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	LONGBOW (AA6670)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		SSNs AA6607/6608, AA0978, PE 273744 D508, D12 & D17

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	482	19								501
Gross Cost	5338.1	890.4	83.4							6311.9
Less PY Adv Proc	356.7	14.1								370.8
Plus CY Adv Proc	402.8									402.8
Net Proc P1	5384.3	876.3	83.4							6311.9
Initial Spares	45.1	6.5								51.6
Total Proc Cost	5429.3	882.8	83.4							6395.5
Flyaway U/C										
Weapon System Proc U/C	23.9	47.6								

Description:
Description:
Longbow Heavy Attack Helicopter and associated systems.

Justification:
No FY 2007 request. All Apache Longbow funding consolidated on SSN AA6605 Apache Mods.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	LONGBOW APACHE MODS (AA6607)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		SSNs AA6670/6608, PE273744 D508, D12 & D17

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	482	19								501
Gross Cost	5273.0	883.9	83.4							6240.3
Less PY Adv Proc	304.1	14.1								318.2
Plus CY Adv Proc	318.2									318.2
Net Proc P1	5287.1	869.8	83.4							6240.3
Initial Spares	45.1	6.5								51.6
Total Proc Cost	5332.2	876.3	83.4							6291.8
Flyaway U/C										
Weapon System Proc U/C	11.0	45.8								12.5

Description:
The Longbow Heavy Attack Helicopter (AH-64D) consists of a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, fire and forget Longbow HELLFIRE missiles, semi-active laser guided missiles, 70MM rockets, and a 30MM chain gun. These changes consist of increased electrical power management system, enhanced navigation and communication systems and MANPRINT Crew station. The AH-64A airframe is remanufactured to integrate the FCR/RFI mission kit and share the data within the tactical internet. AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR/RFI mission kit. Those AH-64D aircraft fielded without the FCR mission kits will have the T700-GE-701 engines, but can accept the FCR mission kit with the addition of T700-GE-701C engines. The total Longbow Apache AH-64D quantity to be procured in 597. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The weapon system will effectively engage and destroy advanced threat armor on the Air Land Battlefield of the 21st century. To be effective and survive on this future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures. This request augments funding included on the AH-64 Mods line for the procurement of Modernized Target Acquisition Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) through FY06 for the entire Apache fleet.

Justification:
Begining in FY 07, all Apache Longbow funding is consolidated on the Apache Mods budget line.

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
LONGBOW APACHE MODS (AA6607)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05											Later
							Calendar Year 04												Calendar Year 05											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframe																														
	1	FY 03	A	74	0	74						5	5	6	6	6	6	6	6	6	6	6	6	4							0
	1	FY 04	A	64	0	64			A															2	6	5	5	5	5	5	31
	1	FY 05	A	19	0	19															A										19
Replacement aircraft																														
	1	FY 05	A	13	0	13																									13
Total				170		170						5	5	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	63
							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	Boeing, Mesa, AZ	48	72	120	36
2	Longbow Limited Liability, Orlando, FL	48	72	120	36

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	10	3	28	31
	Reorder	2	3	15	18
2	Initial	10	2	28	30
	Reorder	2	3	16	19
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
LONGBOW APACHE MODS (AA6607)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												Later
							Calendar Year 06												Calendar Year 07												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframe																															
	1	FY 03	A	74	74																										0
	1	FY 04	A	64	33	31	5	5	5	5	5	5	1																		0
	1	FY 05	A	19	0	19							4	5	5	5															0
Replacement aircraft																															
	1	FY 05	A	13	0	13																					3	3	3	4	0
Total				170	107	63	5	5	5	5	5	5	5	5	5	5										3	3	3	4	
							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	Boeing, Mesa, AZ	48	72	120	36
2	Longbow Limited Liability, Orlando, FL	48	72	120	36

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	10	3	28	31
	Reorder	2	3	15	18
2	Initial	10	2	28	30
	Reorder	2	3	16	19
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 2 / Modification of aircraft	LONGBOW APACHE MODS (AA6607)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: SSNs AA6670/6608, PE273744 D508, D12 & D17

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Longbow Apache Mods											
NA	NA	5287.1	584.7	83.4	0.0	0.0	0.0	0.0	0.0	0.0	5955.2
Replacement aircraft											
N/A	N/A	0.0	285.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	285.1
Totals		5287.1	869.8	83.4	0.0	0.0	0.0	0.0	0.0	0.0	6240.3

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Longbow Apache Mods [MOD 1] NA

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

The Longbow Weapon System (AH-64D) consists of a modified AH-64A airframe, a Fire Control Radar (FCR)/Radar Frequency Interferometer (RFI) mission kit and a fire and forget Longbow Hellfire missile. The AH-64 aircraft will be modified with those changes necessary to effectively and efficiently integrate the FCR/RFI mission kit. These changes consist of increased electrical power, expanded forward avionics bays, increased cooling, upgraded processors, MANPRINT crew station and 701C engines. These upgrades will significantly enhance warfighting capability and battlefield survivability by providing for advanced digitized avionics and the employment of true fire and forget engagement capability. FY 05 Procures 27 Longbow Crew Trainers (LCTs), one Longbow Collective Training System (LCTS), maintenance trainers, Parts Task Trainers (PTT), and Tactical Engagement Simulation System (TESS). Funding provides for the procurement of Internal Auxiliary Fuel Systems, and Longbow Open System Architecture. Procures reman/retrofit reliability and safety fixes, and focused component recap on Longbow aircraft. FY06 procures 65 of 612 M-TADS/PNVS multiyear procurement production units and associated sensor displays.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Milestone 1B (DAB) Jul 89, MYII Contract Award 29 Sep 00
Milestone II (DAB) Dec 90, Funding Action Lot IX 17 Nov 03
Milestone III(DAB) Oct 95 Last Production Delivery Jul 06
MY Lot 1 contract award Aug 96, Initial Block III NRE Contract Award
First Production Delivery Mar 97, June 05
First Unit Equipped Jul 98 Lot X Funding Action Nov 04
IOC Accomplished Nov 98.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 15 months

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Longbow Apache Mods [MOD 1] NA

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity	482		19																501	
Recurring	0	3559.8		135.7																3695.5
Other Flyaway	0	998.4		133.4																1131.8
Training Devices	0	612.8		85.3																698.1
Other Support	0	36.8		40.9																77.7
Modernized TADS/PNVS	15	79.3	67	189.4	65	83.4													147	352.1
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		5287.1		584.7		83.4		0.0		0.0		0.0		0.0		0.0		0.0		5955.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 2 / Modification of aircraft	APACHE LONGBOW FCR (AA6608)	
Program Elements for Code B Items:	**Code:**	**Other Related Program Elements:** SSNs AA6670/6607, PE273744 D508, D12 & D17

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	227									227
Gross Cost	852.1	4.9								856.9
Less PY Adv Proc	98.7									98.7
Plus CY Adv Proc	98.7									98.7
Net Proc P1	852.1	4.9								856.9
Initial Spares										
Total Proc Cost	852.1	4.9								856.9
Flyaway U/C										
Weapon System Proc U/C	3.8									3.8

Description:
The Longbow Weapon System (AH-64D) consists of a modified AH-64 airframe, 227 Fire Control Radar (FCR)/ Radar Frequency Interfermoter mission kits and a fire and forget Longbow HELLFIRE missile. Two hundred twenty-seven AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR/RFI mission kit. Those AH-64D aircraft fielded without the FCR/RFI mission kit will have the T700-GE-701 engines installed, but can accept the FCR/RFI mission kit with the addition of T700-GE-701C engines. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The Longbow weapon system, as part of the future force, will effectively engage and destroy advanced threat armor on the battlefields of the 21st century. To be effective and survive on the current and the future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures (CMs).

Justification:
Beginning in FY 2006, Apache Longbow funding consolidated on SSN AA6605 Apache Mods.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	UH-60 MODS (AA0480)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	662.4	88.5	59.0	30.9	13.3	11.3				865.3
Less PY Adv Proc		13.5								13.5
Plus CY Adv Proc	13.5									13.5
Net Proc P1	675.9	75.0	59.0	30.9	13.3	11.3				865.3
Initial Spares										
Total Proc Cost	675.9	75.0	59.0	30.9	13.3	11.3				865.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
The UH-60 BLACKHAWK helicopter is the Army's utility helicopter in the future force.

Justification:
FY 07 procures and installs the Crashworthy External Fuel System (CEFS) and procures Brigade Sets, mission kits and equipment. CEFS is a safety modification that reduces the risk of a post-crash fire. The Brigade Sets, mission kits and equipment is provided to the aviation division and brigade structure to support Army Transformation and Modularity.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	UH-60 BLACK HAWK MODS (AA0492)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	662.4	88.5	59.0	30.9	13.3	11.3				865.3
Less PY Adv Proc		13.5								13.5
Plus CY Adv Proc	13.5									13.5
Net Proc P1	675.9	75.0	59.0	30.9	13.3	11.3				865.3
Initial Spares										
Total Proc Cost	675.9	75.0	59.0	30.9	13.3	11.3				865.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
The UH-60 BLACK HAWK will serve as the Army's utility helicopter in the future force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, air cavalry, troop & equipment transport, command & control, and medical evacuation (MEDEVAC) in active and reserve component theater, corps, division, and Table of Distribution and Allowances (TDA) units. The UH-60 is joint force capable, provides 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 BLACK HAWK fleet consists of the UH-60A, first fielded in FY78, and the newer UH-60L which was fielded in FY89 and is still in production today and the UH-60M which begins full rate production in FY06. The oldest UH-60As are now over 29 years old, and the average age of the UH-60A fleet is 23 years.

Justification:
FY 07 procures and fields the Crashworthy External Fuel System (CEFS) and Brigade Sets. CEFS is a safety modification that reduces the risk of a post-crash fire. The Brigade Sets exhibit rolls up peculiar ground support equipment - deployment support kits (PGSE-DSK)and ballistic protection systems (BPS) for UH-60 helicopters. PGSE-DSK are provided to the aviation division and brigade structure to support Army Transformation and Modularity requirements. BPS has been installed on all UH-60s in theater and effort is now directed to pre-deployment aircraft and the UH-60M .

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	UH-60 BLACK HAWK MODS (AA0492)		
Program Elements for Code B Items:	Code:	Other Related Program Elements:	

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Crashworthy External Fuel System (CEFS)											
	Safety	53.7	21.0	24.0	20.1	0.0	0.0	0.0	0.0	0.0	118.8
HH-60L Medical Equip Package (MEP)											
	Operational	47.3	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3
Combat Search and Rescue (CSAR)											
	Operational	0.0	3.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Adv Hel Transmission Lubricant (AHTL)											
	RAM	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Brigade Sets											
	Operational	0.0	18.2	6.3	10.8	13.3	11.3	0.0	0.0	0.0	59.9
FLIR/Ext. Mount (AN/AAQ-22)											
	Operational	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Health Usage Monitoring System (HUMS)											
	RAM	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	21.2
Totals		103.3	75.0	59.0	30.9	13.3	11.3	0.0	0.0	0.0	292.8

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Crashworthy External Fuel System (CEFS) [MOD 1]

MODELS OF SYSTEM AFFECTED: UH-60A/L/Q/M

DESCRIPTION / JUSTIFICATION:

The Crashworthy External Fuel System (CEFS) is a safety modification that reduces the risk of a post-crash fire. The existing external fuel tanks were designed for self-deployment missions and do not meet current battlefield doctrine that requires these helicopters to fly long-range missions into hostile environments. CEFS is critical to the safety and survivability of UH-60 helicopters. The Army Aviation Safety Center assessed the risk associated with continued routine flight operations using the current non-crashworthy tanks as high.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is complete.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	217	10	15	15	15	30	30	34	34	65	65	66	67								
Outputs	60	19	75	75	25	18	30	34	34	50	50	50	50	50	43						

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		663
Outputs																		663

METHOD OF IMPLEMENTATION: Contract Teams ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 9 months

Contract Dates:	FY 2006 - Nov 05	FY 2007 - Nov 06	FY 2008 -
Delivery Dates:	FY 2006 - Aug 06	FY 2007 - Aug 07	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Crashworthy External Fuel System (CEFS) [MOD 1]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
A-Kits (A/L)	257	15.4	143	7.4	153	8.1	110	8.3											663	39.2
A-Kits (GFE to Production)	14	0.7	8	0.4	10	0.6													32	1.7
A-Kits (GFE to SAR Acft)	10	0.6																	10	0.6
B-kits	202	26.1	45	6.0	77	10.7	40	5.8											364	48.6
Support Equipment/Other		9.1		6.8		3.1		3.4												22.4
Installation of A-Kits	0																			
FY2004 & Prior Equip -- 257 Kits	217	1.8	40	0.3															257	2.1
FY2005 Equip -- 143 Kits	0		15	0.1	128	1.5													143	1.6
FY2006 Equip -- 153 Kits	0						153	1.5											153	1.5
FY2007 Equip -- 110 Kits	0						110	1.1											110	1.1
FY2008 Equip --	0																			
FY2009 Equip --	0																			
FY2010 Equip --	0																			
FY2011 Equip --	0																			
TC Equip -	0																			
Total Installment	217	1.8	55	0.4	128	1.5	263	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	663	6.3
Total Procurement Cost		53.7		21.0		24.0		20.1		0.0		0.0		0.0		0.0		0.0		118.8

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Brigade Sets [MOD 5]

MODELS OF SYSTEM AFFECTED: UH-60A/L

DESCRIPTION / JUSTIFICATION:

Provides funding to procure Peculiar Ground Support Equipment (PGSE)- Deployment Support Kits (DSK) and mission kits to support the new Aviation Division and Brigade Structure. Also funds Ballistic Protection Systems (BPS) that provide increased protection from small arms significantly improving the safety of the pilot, co-pilot, and cargo area/transported troops. BPS is a fully qualified kit and is compatible with UH-60A MEDEVAC mission kit and troop seats. Out-year funding is to procure UH-60M BPS kits. Brigade PGSE-DSK is a collection of tools and equipment fielded as a package. Equipment being procured is sent to aircraft units therefore the installation schedule below does not apply to this effort.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is complete.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		0

METHOD OF IMPLEMENTATION: Field Units ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 6 months

Contract Dates:	FY 2006 - Feb 06	FY 2007 - Feb 07	FY 2008 - Feb 08
Delivery Dates:	FY 2006 - Jul 06	FY 2007 - Jul 07	FY 2008 - Jul 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Brigade Sets [MOD 5]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Ballistic Protection Systems (BPS)	0			4.4		2.0		8.0		10.2		8.2								32.8
Modularity Kits/Sets	0			13.8		4.3		2.8		3.1		3.1								27.1
Interim Contractor Support	0																			
Installation of Hardware	0																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		18.2		6.3		10.8		13.3		11.3		0.0		0.0		0.0		59.9

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Health Usage Monitoring System (HUMS) [MOD 7]

MODELS OF SYSTEM AFFECTED: UH-60L

DESCRIPTION / JUSTIFICATION:

The Health Usage Monitoring System (HUMS) provides an embedded diagnostics and crash survivable cockpit voice/flight data recorder for UH-60 helicopters. The diagnostic equipment captures real time vibration, rotor smoothing and aircraft health usage information while the voice recorder captures human data to aid in accident investigation and cause determination. HUMS will improve safety, revolutionize the logistic maintenance system and lower operating and support costs for the UH-60 helicopter fleet. The data HUMS collects will be used to transition maintenance from Time-Between-Overhaul (TBO) to On-condition Maintenance (OCM).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Black box development is complete. Integration effort for the UH-60L is scheduled for completion by March 06.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									70												
Outputs									50	20											

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		70
Outputs																		70

METHOD OF IMPLEMENTATION: Contract Team ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 3 months

Contract Dates:	FY 2006 - Mar 06	FY 2007 -	FY 2008 -
Delivery Dates:	FY 2006 - Jun 06	FY 2007 -	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Health Usage Monitoring System (HUMS) [MOD 7]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement					70	16.8													70	16.8
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- 70 Kits					70	4.4													70	4.4
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	70	4.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	70	4.4
Total Procurement Cost		0.0		0.0		21.2		0.0		0.0		0.0		0.0		0.0		0.0		21.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	KIOWA WARRIOR (AZ2200)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	3147.5	35.5	24.2	43.7	21.4	14.5	4.2	3.1	13.2	3307.2
Less PY Adv Proc	223.3									223.3
Plus CY Adv Proc	223.3									223.3
Net Proc P1	3147.5	35.5	24.2	43.7	21.4	14.5	4.2	3.1	13.2	3307.2
Initial Spares										
Total Proc Cost	3147.5	35.5	24.2	43.7	21.4	14.5	4.2	3.1	13.2	3307.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
The OH-58D Kiowa Warrior is a two-seat, single-engine, observation, scout/attack helicopter with four main rotor blades. It utilizes a thermal-imaging system and a laser rangefinder/designator in a mast-mounted sight situated above the main rotor system. The aircraft is equipped with a variety of weapon systems including: Hellfire, Air-to-Air Stinger (ATAS), 2.75-inch rockets, and a .50-caliber machine gun. The aircraft operates autonomously at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse-weather conditions. The Active Army and the National Guard fly Kiowa Warrior missions.

To be both safe and operationally compatible with the digitized battlefield, an ongoing Safety Enhancement Program (SEP) incorporates upgraded engines and engine barrier filters, crashworthy crew seats, cockpit airbags, enhanced digitization capabilities, and improved weapons interface. The SEP reduces pilot workload during emergency maneuvers and significantly improves the crashworthiness of the aircraft thus enhancing crew survivability. Partial SEP improvements had previously been incorporated into the later lots of Bell Helicopter's Kiowa Warrior remanufacture/retrofit lines; those aircraft will receive missing portions of the SEP modifications through field retrofit activities. Other fielded Kiowa Warrior aircraft are being SEP modified via a combination of efforts on the contractor's SEP modification line and through field retrofit.

The SEP Weight Reduction initiatives will increase safety by reducing the aircraft weight thus improving operational and autorotational characteristics. The Program will also increase system reliability and lower support costs. Efforts include removing obsolete and extraneous hardware, repainting after removing excess layers of paint, replacing the current bomb rack, updating the multifunction displays (MFDs) with lightweight MFDs, providing a lighter weight and better positioned common transponder and video data transfer system, and adding a limited number of the GAU-19 .50-caliber, three-barrel Gatling Gun in lieu of the M2 .50-caliber machine gun.

Increased funding in FY 2007 represents continuation of the SEP and the initiation of the majority of the Weight Reduction efforts.

Justification:
FY07 procures additional/continuing modifications which allow the Kiowa Warrior to safely serve as the Army's night, armed-reconnaissance, aviation capability until replaced/retired.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	KIOWA WARRIOR (AZ2200)		
Program Elements for Code B Items:		Code:	Other Related Program Elements:

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Safety Enhancement Program (SEP)											
2-97-01-0115	Safety	257.5	28.5	22.0	23.2	4.0	1.7	0.0	0.0	0.0	336.9
Safety Enhancement Program - Weight Reduction											
2-02-01-0116	Safety	9.1	7.0	2.2	20.5	16.4	8.2	1.6	0.0	0.0	65.0
Program Support and Other											
0-00-00-0000		2.0	0.0	0.0	0.0	1.0	4.6	2.6	3.1	13.2	26.5
Totals		268.6	35.5	24.2	43.7	21.4	14.5	4.2	3.1	13.2	428.4

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Safety Enhancement Program (SEP) [MOD 1] 2-97-01-0115

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

The Safety Enhancement Program (SEP) addresses safety issues and enables Kiowa Warrior performance as a digitized platform capable of integrated combat engagement via the Tactical Internet. R3 Engines with Full Authority Digital Electronic Control increase reliability, control responsiveness, and overcome a rotor droop anomaly by providing faster response time to power demands. Engine barrier filters improve engine reliability by reducing damage from sand/dust ingestion and by increasing engine meantime between overhaul. The Improved Master Controller Processor Unit (IMCPU) increases memory and throughput and reduces both aircraft empty weight and Operating and Support (O&S) costs. The IMCPU accommodates upgraded software required for digital communications and provides the Variable Message Format (VMF). Energy attenuating seats provide crew safety in case of vertical and horizontal impacts. Cockpit airbags increase crew protection. Of the current fleet of 353 Kiowa Warriors, 304 (including nine Category B trainers) will receive SEP modifications; 227 are being accomplished on the contractor's modification line and 77 additional aircraft had been partially equipped in prior remanufacture/retrofit lines. Twenty-three of the SEP-modified aircraft have been lost to attrition. Equipment not installed at the contractor's facility will be applied via field retrofit. In order to complete the SEP, aircraft will be modified at the contractor's facility plus some will have seats, airbags, and engine barrier filters installed in the field. The full fleet of 353 aircraft will be equipped with engine barrier filters, seats, and airbags.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Note: Installation Schedule data not provided below; multiple installations will occur on individual aircraft. The majority of aircraft will be block-modified on the Bell Helicopter Textron, Inc. line via annual contractual orders and will be delivered over a 12-month period. Some, but not all, aircraft will receive the complete complement of modifications at that facility. However, some aircraft will receive portions of the modification efforts via field retrofit and; similarly, not all field retrofit aircraft will receive all field retrofit modifications. Hardware installation dollars on Page 2 of this form represent a compilation of the variety of field retrofit modifications. The block-modification installations on the contractor's modification line are not separately priced and therefore the dollars are embedded in the Recurring line for each year.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: Kr line & fld retrofit ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 13 months

Contract Dates:	FY 2006 - Mar 06	FY 2007 - Mar 07	FY 2008 -
Delivery Dates:	FY 2006 - Mar 07	FY 2007 - Mar 08	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Safety Enhancement Program (SEP) [MOD 1] 2-97-01-0115

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Aircraft Modified - Bell Helicopter	170		20		18		19												227	
Nonrecurring	0	29.7		2.7		2.7		2.8												37.9
Recurring - Bell Helicopter	0	94.1		14.6		13.5		14.5												136.7
Government-Furnished Equipment	0	95.4		4.3		1.6		1.0		0.4										102.7
Engineering Change Orders	0	0.2		0.0		0.3		0.4		0.7		0.6								2.2
Aircraft Preparation	0	12.9		0.7		1.6		1.6		0.6										17.4
Fielding	0	3.4		0.1		0.2		0.3		0.1		0.1								4.2
Training/Training Devices	0	6.7		2.5																9.2
Other	0	9.6		1.8		1.0		1.1		1.3		1.0								15.8
Technical Support	0	3.5		1.0		0.0		0.5		0.5										5.5
Installation of Hardware - Field	0																			
FY 2002 & Prior Equip -- Kits	0	0.5																		0.5
FY 2003 -- Kits	0	0.7																		0.7
FY 2004 Equip -- Kits	0	0.8																		0.8
FY 2005 Equip -- Kits	0			0.8																0.8
FY 2006 Equip -- Kits	0					1.1														1.1
FY 2007 Equip -- Kits	0							1.0												1.0
FY 2008 Equip -- Kits	0									0.4										0.4
FY 2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	2.0	0	0.8	0	1.1	0	1.0	0	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	5.3
Total Procurement Cost		257.5		28.5		22.0		23.2		4.0		1.7		0.0		0.0		0.0		336.9

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Safety Enhancement Program - Weight Reduction [MOD 2] 2-02-01-0116

MODELS OF SYSTEM AFFECTED: OH-58D, Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

The Safety Enhancement Weight Reduction Program addresses the safety of the Kiowa Warrior and its crew. The safety of the crew depends to a large extent on the maneuverability and performance of the aircraft. Due to its overweight condition, the Kiowa Warrior has an existing operational safety deficiency for autorotational capability. The Weight Reduction modifications will reduce the aircraft weight thus improving the margin of safety, correcting aft center of gravity and providing increased power margin. Efforts include the following initiatives: bomb racks, lightweight multi-function displays, a video data transfer system, a lighter weight and better positioned common transponder, and a limited number of XM322/GAU-19 .50-caliber Gatling Guns. Additionally, extraneous hardware and paint layers will be removed. Of the current fleet of 353 aircraft, various lesser quantities are planned for weight reduction modifications due to the projected retirement schedule of the fleet. These modifications will be applied only to Kiowa Warriors in the critical Control Display Symbology, version 4 (CDS4) configuration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Note: Installation Schedule data not provided below. Aircraft will be equipped/modified via field retrofits. Each effort within this modification plan can be installed separately from the others. While attempts will be made to combine modifications where feasible, there will be separate schedules and quantities for each modification. Hardware installation dollars represent a compilation of the variety of field retrofit modifications. Leadtimes and contract award and delivery dates are not provided below. Multiple/individual contracts will be written each applicable fiscal year to complete this Weight Reduction Program. Likewise, multiple delivery schedules will exist.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

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

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Safety Enhancement Program - Weight Reduction [MOD 2] 2-02-01-0116

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity	0																			
Nonrecurring	0			0.0				0.6		0.1										0.7
Recurring Labor	0							0.7		1.4		1.5		1.1						4.7
Hardware	0	8.4		6.2		1.8		17.2		13.0		5.2								51.8
Data/Pubs/Manuals	0	0.7		0.8				0.6		0.2										2.3
Support Equipment	0					0.3		0.1												0.4
Technical Support	0																			
Fielding	0					0.1		0.1												0.2
Training/Training Devices	0							0.2		0.1		0.1		0.1						0.5
Installation of Hardware (Retrofit)	0																			
FY 2002 & Prior Equip -- Kits	0																			
FY 2003 -- Kits	0																			
FY 2004 Equip -- Kits	0																			
FY 2005 Equip -- Kits	0																			
FY 2006 Equip -- Kits	0																			
FY 2007 Equip -- Kits	0							1.0												1.0
FY 2008 Equip -- Kits	0									1.6										1.6
FY 2009 Equip -- Kits	0											1.4								1.4
FY2010 Equip -- Kits	0													0.4						0.4
TC Eqiup -- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	1.0	0	1.6	0	1.4	0	0.4	0	0.0	0	0.0	0	4.4
Total Procurement Cost		9.1		7.0		2.2		20.5		16.4		8.2		1.6		0.0		0.0		65.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	AIRBORNE AVIONICS (AA0700)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	654.0	57.8	92.6	156.5	174.5	168.8	255.2	287.6		1846.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	654.0	57.8	92.6	156.5	174.5	168.8	255.2	287.6		1846.8
Initial Spares	64.8	3.7	0.9	4.5	3.3	4.9	7.3	7.6		97.2
Total Proc Cost	718.8	61.5	93.5	161.0	177.9	173.7	262.4	295.2		1943.9
Flyaway U/C										
Weapon System Proc U/C										

Description:

The Airborne Avionics budget line includes the Global Positioning System (GPS), the Joint Precision Approach and Landing System (JPALS), the Improved Data Modem (IDM), the Aviation Mission Planning System (AMPS), Aviation Tactical Communications Systems (ATCS) and Military Flight Operations Quality Assurance (MFOQA). The GPS, IDM, AMPS and ATCS are four of the aviation systems required to support the digitization of the battlefield.

The GPS provides Army aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS)/AN/ASN-128B is used for the utility and cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Attack and Special Operations fleets of helicopters. A Pre-Planned Product Improvement (P3I) to the DGNS and EGI began in FY01 to integrate a Selective Availability Anti-Spoofing Module (SAASM), and Instrument Flight Rule (IFR) navigation capability. The P3I DGNS, which is called the AN/ASN-128D, is being installed on UH-60A/L and CH-47D aircraft and the P3I EGI is being installed on UH-60M, CH-47F, AH-64D and special operations aircraft.

The Improved Data Modem (IDM) is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. With interfaces supporting a 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/210/220/231, ARC-186, ARC-164, EPLRS, and the Blue Force Tracker's (BFT) MT-2011 Transceiver, as well as, provide 1553 and Ethernet portals for rapid data transfer. This hardware/software solution also provides a flexible, software driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the Longbow Apache (AH-64D) and Kiowa Warrior (OH-58D) aircraft and will be installed on the Chinook (MH/CH-47F), Blackhawk (UH/HH-60M), and the Armed Reconnaissance Helicopter (ARH).

The Aviation Mission Planning System (AMPS) is a mission planning/battle-synchronization tool that automates aviation mission planning tasks that include tactical command and control, mission planning, and flight planning. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which are loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft, including the AH-64A Apache Modernization, AH-64D Longbow Apache, Armed Reconnaissance Helicopter (ARH), CH-47D/F Chinook, OH-58D Kiowa Warrior, and UH-60A/L/M/Q, HH-60L/M Blackhawk, and Unmanned Aerial Vehicles (UAV).

Exhibit P-40, Budget Item Justification Sheet		Date: February 2006
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft	P-1 Item Nomenclature AIRBORNE AVIONICS (AA0700)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

AMPS is the aviators mission planning toolset and integrates several related applications: Tactical Operational SCENE (TOPSCENE); an automated risk assessment module; and a Centralized Automated Flight Record System (CAFRS). The overall system hardware is upgraded after 3 three years of use and replaced after 5 years of use.

AMPS will migrate to the Joint Mission Planning System (JMPS) beginning in FY10 to support the required future capabilities of the Aviation fleet in the Future Force.

The Joint Precision Approach Landing Systems (JPALS) is a precision approach and landing system providing joint operational capability for U.S. forces assigned to conventional and special operations missions including those operating from fixed base, ship, tactical, and austere environments.

Aviation Tactical Communication Systems (ATCS) is a Rotary Wing Army Aviation Program that requires near term procurement of Alternative Communications A&B-Kits. Alternative Communications are required as a result of delays in the Joint Tactical Radio System (JTRS) program and consist of existing radios requiring no development and meet the minimum acceptable communications capability approved by the Vice Chief of Staff of the Army. Due to the significant number of aircraft not being able to receive JTRS, PM AME will procure ARC-201D (SINCGARS) and Improved FM (IFM) through an existing CECOM contract and multi-mode radios in two phases: Phase 1 (began in May 2005) consisted of an initial quantity of ARC-231 family receiver-transmitters (RT's), with associated amplifiers, radio set controls, and mounts for AH-64D Block II and Baseline UH-60M integration and production. Phase 2 was a Full and Open Competition which took place from July-December 2005 for a non-developmental Multi Mode Aviation Radio Suite (MARS) to meet AH-64D Block III, CH-47F/MH-47, and UH-60 P3I requirements and resulted in a 30 December 2005 Indefinite Delivery, Indefinite Quantity (ID/IQ) contract award for ARC-231 items.

Military Flight Operations Quality Assurance (MFOQA) is the systematic collection and automated analysis of operational data from aircraft for use in continuous improvement of combat readiness in the areas of operation, training, maintenance and safety. MFOQA builds on a commercial aviation initiative which uses operational trend analyses of flight data to better identify hazards, increase operational efficiency and provide more effective risk management.

Justification:

FY07 procures DGNS B-Kits and A-Kits and installations for the UH-60A/L and CH-47D. Funding also procures EGI B-Kits for SOA aircraft. P3I is required to meet directed security requirement Selective Availability Anti-Spoofing Module and to provide a box level IFR navigation capability. GPS P3I, GATM and JPALS programs are closely linked and have joint perspective/participation.

FY07 procures IDM Redesign B Kits to mitigate parts obsolescence concerns and to provide a technology refresh to the IDM hardware. These B Kits support production line programs for the AH-64D, CH-47F, HH/UH-60M helicopters and OH-58D Safety Enhancement Program. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the Tactical Internet and Fire Support Internet networks. The IDM provides a seamless capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

FY07 procures AMPS upgrades to system software; new hardware to support transformation requirements; upgrades to existing hardware to support aviation fleet modernization programs; integration of TOPSCENE; and implementation of CAFRS.

FY07 procures ATCS A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M, and Special Operation Army (SOA) for alternative communications. An Alternative Communications suite of aviation radios comprises a standard configuration of non-developmental and commercially available Line Replaceable Units (LRU). The standard configuration consists of 2 each ARC-201D SINCGARS, an IFM Power Amplifier (two IFM's for CH-47F), and a Multi Mode Aviation Radio Suite of ARC-231/Set. AH-64D aircraft already have ARC-201D SINCGARS and do not require procurement.

FY07 procures and installs MFOQA Cockpit Voice Recorders (CVR) and Flight Data Recorders (FDR) for legacy non digitized aircraft. This program is intended to provide users at all levels of the Army with the required information to conduct analyses and make decisions in the areas of operations, training, maintenance, and safety to ensure efficient fleet management, to reduce operations and support (O&S) costs and to improve operational readiness.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	AIRBORNE AVIONICS (AA0700)		
Program Elements for Code B Items:		Code:	Other Related Program Elements: PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Improved Data Modem (IDM)											
	Oper/Log	247.6	23.2	50.2	51.1	59.8	48.6	44.3	68.7	0.0	593.5
Aviation Mission Planning System (AMPS)											
1-95-01-2185	Oper/Log	121.4	15.9	21.6	17.1	16.0	14.3	18.4	16.9	0.0	241.6
Embedded GPS Inertial Navigation System (EGI) P3I											
	Legislative	18.2	2.9	0.5	1.9	2.5	3.4	11.0	10.5	0.0	50.9
DGNS (AN/ASN-128B) P3I											
	Oper/Log	27.5	10.2	9.8	13.2	18.7	22.5	20.6	11.1	0.0	133.6
Aviation Tactical Communication Systems											
	Operational	41.0	5.6	10.5	58.1	62.5	65.0	97.1	85.5	0.0	425.3
Joint Precision Approach and Landing Sys (JPALS)											
	Operational	0.0	0.0	0.0	0.0	0.0	0.0	48.7	79.9	0.0	128.6
Mil Flight Operation Quality Assurance (MFOQA)											
		0.0	0.0	0.0	15.0	15.0	15.0	15.0	15.0	0.0	75.0
Totals		455.7	57.8	92.6	156.4	174.5	168.8	255.1	287.6	0.0	1648.5

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Improved Data Modem (IDM) [MOD 1]

MODELS OF SYSTEM AFFECTED: IDM MD-1359/A;Aircraft: Longbow Apache,Kiowa Warrior, Armed Reconnaissance,Chinook, Blackhawk

DESCRIPTION / JUSTIFICATION:

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. This hardware/software solution also provides a flexible, software driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the Longbow Apache (AH-64D) and Kiowa Warrior (OH-58D) aircraft and will be installed on the Chinook (CH-47F) and Blackhawk (UH/HH-60M). No installation schedule due to installs on production line by contractor.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY07-09 hardware redesign was accelerated from FY09 to FY07 to mitigate parts obsolescence and provide a technology refresh, which will result in a higher unit cost.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		0

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 16 months

Contract Dates:	FY 2006 - Dec 05	FY 2007 - Dec 06	FY 2008 - Dec 07
Delivery Dates:	FY 2006 - Apr 07	FY 2007 - Apr 08	FY 2008 - Apr 09

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Improved Data Modem (IDM) [MOD 1]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity - B -Kits(IDM)	810	26.8	122	2.6	105	2.2	138	4.9	130	4.7	132	4.9	133	5.0	142	5.5			1712	56.6
Kit Quantity- B -Kits (IDM Mods)	206	4.5																	206	4.5
B-Kit NonRecurring		58.5		8.4		4.8		8.5		7.6		9.7		5.4		15.4				118.3
Kit Quantity- A-Kits	240	11.9																	240	11.9
Aircraft Integration	0	119.5		8.2		34.9		27.8		37.0		23.9		24.2		36.4				311.9
ECP (B-Kit HW)	0	0.7				0.0		0.3		0.3		0.3		0.4		0.4				2.4
ECP (B-Kit SW)	0	3.9		0.4		2.4		3.2		3.3		3.4		3.1		3.5				23.2
Data	0	1.4		0.2		0.2		0.2		0.2		0.2		0.2		0.2				2.8
Systems Engineering	0			2.0		2.5		2.9		3.0		2.9		2.9		3.2				19.4
Systems Test and Evaluation	0	2.0				0.6		0.6		0.6		0.6		0.6		0.6				5.6
Fielding/Training	0	3.4		1.2		1.2		1.2		1.3		1.2		1.2		1.4				12.1
Other-PM Admin	0	15.0		0.2		1.4		1.5		1.8		1.5		1.3		2.1				24.8
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
FY2011Equip -- Kits	0																			
TC Equip- Kits	0																			
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		247.6		23.2		50.2		51.1		59.8		48.6		44.3		68.7		0.0		593.5

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Aviation Mission Planning System (AMPS) [MOD 2] 1-95-01-2185

MODELS OF SYSTEM AFFECTED: Apache (AH-64A Mod./AH-64D), ARH, Blackhawk (UH-60A/L/Q and HH-60L), Chinook, Kiowa Warrior, UAV

DESCRIPTION / JUSTIFICATION:

The AMPS mission planning/battle-synchronization tool with integrated applications TOPSCENE; Centralized Automated Flight Record System (CAFRS)) is used to automate aviation mission planning tasks. The AMPS includes tactical command and control, mission planning and management. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which are loaded on the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft. Since the airframes have the data receptacles/busses required to interface with AMPS, there is no installation cost/schedule. System functionality is upgraded through the application of engineering change proposals (ECPs) in a spiral development program. AMPS is fielded to division level Brigade Combat Elements, Brigade Combat Team, Brigade, Battalion, and Company.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Operational Requirements Document Change 1 approved Apr 1998.
AMPS migrates to JMPS beginning in FY10.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: N/A ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Aviation Mission Planning System (AMPS) [MOD 2] 1-95-01-2185

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity - B Kit	0																			
Kit Quantity- B Kit (Computer)	1828	30.5			661	4.7			722	5.4	373	2.8							3584	43.4
Kit Quantity -B Kit (Upgrades)	0				501	2.7	623	3.5							750	4.6			1874	10.8
Kit Quantity -B Kit (Peripherals)	0	11.7				0.3				2.4		1.5								15.9
B Kit (Nonrecurring)	0	8.7		11.6		8.5		8.5		3.1		4.9		13.0		6.8				65.1
ECPs	0	56.0																		56.0
Training Equipment	0																			
Systems Engineering	0			1.0		1.2		1.2		1.2		1.2		1.2		1.3				8.3
System Test & Eval	0	0.6		0.4		0.6		0.4		0.4		0.5		0.5		0.5				3.9
Fielding/Training	0	7.5		2.2		2.6		2.6		2.7		2.7		2.8		2.9				26.0
Other - PM Admin		6.4		0.7		1.0		0.9		0.8		0.7		0.9		0.8				12.2
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
FY2011 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		121.4		15.9		21.6		17.1		16.0		14.3		18.4		16.9		0.0		241.6

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: DGNS (AN/ASN-128B) P3I [MOD 4]

MODELS OF SYSTEM AFFECTED: UH60A/L, CH47D

DESCRIPTION / JUSTIFICATION:

The Doppler GPS Navigation System (DGNS) is one of the aviation systems required for Digitization of the Battlefield. A Pre-Planned Product Improvement (P3I) for the current ASN-128B/DGNS for the UH-60A/L and CH-47D aircraft is updating to a ASN-128D. This modification will provide enhanced security with the Selective Availability Anti-Spoofing Module (SAASM) and GPS Instrument Flight Rule (IFR) navigation capability. The AN/ASN-128D/DGNS will meet the regulatory requirements of civil airspace for the UH-60A/L and CH-47D aircraft. A-Kit unit costs vary by platform.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Full Rate Production (FRP) contract awarded Aug 05 for B-Kits. There is a 12-month production lead-time for the B-kits.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	0	0	47	14	62	62	62	62	31	31	31	31	25	25	25	25	25	25	30	30
Outputs		0	0	0	15	23	25	25	20	11	20	22	20	21	25	25	25	25	37	37	38

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	56	57	57	57	34	34	34	34	60	60	60	60	43	43	43	44		1419
Outputs	38	60	60	60	61	37	37	37	37	65	65	66	66	68	68	68	112	1419

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2006 - Apr 06 FY 2007 - Apr 07 FY 2008 - Apr 08

Delivery Dates: FY 2006 - Oct 06 FY 2007 - Oct 07 FY 2008 - Oct 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): DGNS (AN/ASN-128B) P3I [MOD 4]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity - B-Kit	63	4.1	160	5.9			147	7.7	218	11.6	226	12.3	193	9.9	110	5.9	335		1452	57.4
B-Kit Nonrecurring		13.3	0	0.2																13.5
Kit Quantity A-Kit	61	1.0	97	1.4	275	5.3	110	2.2	128	3.0	199	5.0	225	5.3	72	1.8	252		1419	25.0
Aircaft Integration - Nonrecurring	0	3.9		0.4																4.3
ECPs	0			0.2		0.2		0.1		0.2		0.3		0.2						1.2
Data	0			0.3		0.4		0.4		0.5		0.7		0.5		0.3				3.1
Training Equipment	0			0.3		0.1		0.2		0.2		0.3		0.1		0.1				1.3
Systems Engineering	0	4.1		0.6		1.2		0.9		1.2		1.3		1.0		1.0				11.3
Other - PM Admin	0	1.1		0.5		0.5		0.6		1.0		1.2		1.0		0.5				6.4
Other	0																			
Installation of Hardware	0																			
FY2004 & Prior - Kits	0		61	0.4															61	0.4
FY2005 Equip -- Kits	0				97	0.7													97	0.7
FY2006 Equip -- Kits	0				151	1.4	124	1.1											275	2.5
FY2007 Equip -- Kits	0								100	1.0	10	0.2							110	1.2
FY2008 Equip -- Kits	0										100	1.2	28	0.3					128	1.5
FY2009 Equip -- Kits	0												199	2.3					199	2.3
FY2010 Equip -- Kits	0														136	1.5			136	1.5
FY2011 Equip -- Kits	0																			
TC Equip- Kits	0																413		413	
Total Installment	0	0.0	61	0.4	248	2.1	124	1.1	100	1.0	110	1.4	227	2.6	136	1.5	413	0.0	1419	10.1
Total Procurement Cost		27.5		10.2		9.8		13.2		18.7		22.5		20.6		11.1		0.0		133.6

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Aviation Tactical Communication Systems [MOD 5]

MODELS OF SYSTEM AFFECTED: AH-64D, CH-47F, UH-60M

DESCRIPTION / JUSTIFICATION:

Aviation Tactical Communication Systems (ATCS) is a Rotary Wing Army Aviation Program that requires near term procurement of Alternative Communications A&B Kits and procurement of Joint Tactical Radio System (JTRS) A-Kits in FY12. Alternative Communications are required as a result of delays in the JTRS program and consist of existing radios requiring no development and meet the minimum acceptable communications capability approved by the Vice Chief of Staff of the Army. Due to the significant number of aircraft not being able to receive JTRS, PM AME will procure ARC-201D (SINCGARS) and Improved FM (IFM) through an existing CECOM contract and multi-mode radios in two phases: Phase 1 (began in May 2005) consisted of an initial quantity of ARC-231 family receiver-transmitters (RT's), with associated amplifiers, radio set controls, and mounts for AH-64D Block II and Baseline UH-60M integration and production. Phase 2 was a Full and Open Competition which took place from July-December 2005 for a non-developmental Multi Mode Aviation Radio Suite (MARS) to meet AH-64D Block III, CH-47F/MH-47, and UH-60 P3I requirements and resulted in a 30 December 2005 Indefinite Delivery, Indefinite Quantity (ID/IQ) contract award for ARC-231 items. No installation schedule due to A and B-Kits being integrated on the production line. B-kits are procured prior to A-kits due to platform and radio lead times. A-Kit configuration and radio suite varies by platform.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0																				
Outputs																					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		0
Outputs																		0

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

Contract Dates: FY 2006 - FY 2007 - FY 2008 -

Delivery Dates: FY 2006 - FY 2007 - FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Aviation Tactical Communication Systems [MOD 5]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity - B-Kits	0																			
Kit Quantity - B-Kit (ARC-231/Sets)	220	16.3	19	3.1			100	7.6	223	18.7	189	18.3	310	30.7	62	6.3			1123	101.0
Kit Quantity - B-Kit (ARC-201D)	440	13.6	107	2.2			140	4.7	316	10.9	272	9.6	425	15.3	62	2.3			1762	58.6
Kit Quantity - B-Kit (SINCGARS IFM)	300	6.0	17	0.3			112	2.4	215	4.8	184	4.2	234	5.4	0	0.0			1062	23.1
Kit Quantity - A-Kit	0		0	0.0	86	10.0	269	32.8	113	14.5	137	18.4	207	29.3	311	46.2			1123	151.2
ECP	0		0	0.0	0	0.0	0	4.4	0	6.6	0	7.1	0	6.9	0	20.0				45.0
System Engineering	0	5.1	0	0.0	0	0.0	0	3.5	0	4.2	0	4.6	0	6.5	0	6.7				30.6
System Test & Evaluation	0		0	0.0	0	0.0	0	1.2	0	1.3	0	1.3	0	1.5	0	2.4				7.7
Fielding/Training	0		0	0.0	0	0.5	0	1.0	0	1.0	0	1.0	0	1.0	0	1.0				5.5
Other - Pm Adrmin	0		0	0.0	0	0.0	0	0.5	0	0.5	0	0.5	0	0.5	0	0.6				2.6
Installation of Hardware	0																			
FY2004 & Prior Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
FY2010 Equip -- Kits	0																			
FY2011 Equip -- Kits	0																			
TC Equip- Kits	0																			
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		41.0		5.6		10.5		58.1		62.5		65.0		97.1		85.5		0.0		425.3

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Mil Flight Operation Quality Assurance (MFOQA) [MOD 7]

MODELS OF SYSTEM AFFECTED: AH-64D, AH-64A, CH-47F, CH-47D, UH-60M, HH-60M, UH-60A/L, ARH, LUH

DESCRIPTION / JUSTIFICATION:

Military Flight Operations Quality Assurance (MFOQA) is the systematic collection and automated analysis of operational data from aircraft for use in continuous improvement of combat readiness in the areas of operation, training, maintenance and safety. MFOQA builds on a commercial aviation initiative which uses operational trend analyses of flight data to better identify hazards, increase operational efficiency and provide more effective risk management.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs												86	87			104	104			104	105
Outputs												57	87	29		69	104	35		69	105

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			103	104			98	99			32							1026
Outputs	35		69	103	35		65	99	33		32							1026

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 3 months

Contract Dates: FY 2006 - FY 2007 - Jan 07 FY 2008 - Jan 08

Delivery Dates: FY 2006 - FY 2007 - Apr 07 FY 2008 - Apr 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Mil Flight Operation Quality Assurance (MFOQA) [MOD 7]

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity B-Kits							205	7.6	211	7.5	209	7.5	206	7.4	195	7.4			1026	37.4
Kit Quantity A-Kits							205	3.3	211	3.1	209	3.0	206	3.1	195	3.1			1026	15.6
Fielding								0.5		0.4		0.4		0.4		0.4				2.1
Other-PM Admin								0.8		0.7		0.7		0.7		0.7				3.6
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							173	2.8	32	0.5									205	3.3
FY 2008 Equip -- Kits									176	2.8	35	0.6							211	3.4
FY 2009 Equip -- Kits											174	2.8	35	0.6					209	3.4
FY 2010 Equip -- Kits													172	2.8	34	0.6			206	3.4
FY 2011 Equip -- Kits															163	2.8	32		195	2.8
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	173	2.8	208	3.3	209	3.4	207	3.4	197	3.4	32	0.0	1026	16.3
Total Procurement Cost		0.0		0.0		0.0		15.0		15.0		15.0		15.0		15.0		0.0		75.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	GATM Rollup (AA0711)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	126.1	59.4	31.1	31.7	53.1	79.8	105.9	103.6		590.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	126.1	59.4	31.1	31.7	53.1	79.8	105.9	103.6		590.7
Initial Spares										
Total Proc Cost	126.1	59.4	31.1	31.7	53.1	79.8	105.9	103.6		590.7
Flyaway U/C										
Weapon System Proc U/C										

Description:
This budget line supports procurement of Global Air Traffic Management equipment for both Fixed Wing (FW) and Rotary Wing (RW) aircraft.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 2/ Modification of aircraft	P-1 Line Item Nomenclature: GATM Rollup (AA0711)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Fixed Wing Aircraft (AA0703)		39918			8652			8117		
Rotary Wing Aircraft (AA0704)		19458			22467			23549		
Total		**59376**			**31119**			**31666**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	GATM - Fixed Wing Aircraft (AA0703)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	61.1	39.9	8.7	8.1	9.6	8.6	13.6	13.6		163.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	61.1	39.9	8.7	8.1	9.6	8.6	13.6	13.6		163.1
Initial Spares										
Total Proc Cost	61.1	39.9	8.7	8.1	9.6	8.6	13.6	13.6		163.1
Flyaway U/C										
Weapon System Proc U/C										

Description:
Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation Surveillance and Air Traffic Management (CNS/ATM) programs. Current ground based navigation aids will be phased out of service as the world transitions to digital, data (non-voice), and space based navigation systems. Military aircraft will face some level (altitude and location dependent) of flight restrictions if not GATM equipped. GATM requirements cannot be met with a single piece of equipment. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for the fixed wing fleet.

Justification:
FY 2007 procures GATM equipment for Fixed Wing aircraft. Fixed Wing aircraft were purchased with avionics and navigation equipment available at the time of production. However, for the Army's Fixed Wing aircraft to remain current and have unrestricted access to the rapidly changing Air Traffic Management airspace, new communication, navigation and surveillance equipment will be needed to support GATM. Unless equipped, the Army's senior leadership will be limited in conducting their worldwide command and control missions because of potential airspace exclusion or routing delays. In addition, elimination of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	GATM - Fixed Wing Aircraft (AA0703)		
Program Elements for Code B Items:	Code:	Other Related Program Elements:	

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Global Air Traffic Management - FW											
GATM-FW	Operational	61.1	39.9	8.7	8.1	9.6	8.6	13.6	13.6	0.0	163.2
Global Air Traffic Management - RW											
GATM-RW	Operational	65.1	19.4	22.5	23.5	43.5	71.2	92.4	90.0	0.0	427.6
Totals		126.2	59.3	31.2	31.6	53.1	79.8	106.0	103.6	0.0	590.8

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Global Air Traffic Management - FW [MOD 1] GATM-FW

MODELS OF SYSTEM AFFECTED: C-31A, UV-18, C-12 series, RC-12 series, C-23, C-26, C-37 series, C-20 series, and UC-35 series

DESCRIPTION / JUSTIFICATION:

This effort will update and modernize communication, navigation, and surveillance equipment to current international requirements, allow worldwide deployments and continued safe operations. Failure to modify the Fixed Wing fleet will prevent worldwide deployability.

As currently equipped, the aircraft are not suitable for worldwide deployment nor capable of using modern navigation and air traffic control capabilities. A variety of equipment is required by GATM including: datalink technology, satellite communication (SATCOM), communication management units, Electronic Flight Information System, surveillance equipment, radios, navigation equipment and multi-mode receivers. GATM requirements are evolving and require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Kit configuration varies by aircraft. Consequently, kit unit and installation costs vary significantly from year to year.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is not required for avionics system cockpit upgrades.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	75			17	17			6	6			6	5			23	22			7	7
Outputs	75				17	17			6	6			6	5			23	22			7

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			15	10			5	4										225
Outputs	7			15	10			5	4									225

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 6 months

Contract Dates:	FY 2006 - Feb 06	FY 2007 - Feb 07	FY 2008 - Feb 08
Delivery Dates:	FY 2006 - Jul 06	FY 2007 - Jul 07	FY 2008 - Jul 08

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Global Air Traffic Management - FW [MOD 1] GATM-FW

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits	75	42.2	34	22.0	12	6.5	11	5.6	45	5.9	14	5.7	25	9.5	9	9.6			225	107.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data		0.2		0.1		0.1		0.1		0.1		0.1		0.1		0.1				0.9
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits	75	18.7																	75	18.7
FY 2005 -- Kits			34	17.8															34	17.8
FY 2006 Equip -- Kits					12	2.1													12	2.1
FY 2007 Equip -- Kits							11	2.4											11	2.4
FY 2008 Equip -- Kits									45	3.6									45	3.6
FY 2009 Equip -- Kits											14	2.8							14	2.8
FY 2010 Equip -- Kits													25	4.0					25	4.0
FY 2011 Equip -- Kits															9	3.9			9	3.9
TC Equip- Kits																				
Total Installment	75	18.7	34	17.8	12	2.1	11	2.4	45	3.6	14	2.8	25	4.0	9	3.9	0	0.0	225	55.3
Total Procurement Cost		61.1		39.9		8.7		8.1		9.6		8.6		13.6		13.6		0.0		163.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	GATM - Rotary Wing Aircraft (AA0704)		
Program Elements for Code B Items:	Code:	Other Related Program Elements: SSN AA0701, SSN AA0711	

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	65.1	19.5	22.5	23.5	43.5	71.2	92.4	90.0		427.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	65.1	19.5	22.5	23.5	43.5	71.2	92.4	90.0		427.6
Initial Spares										
Total Proc Cost	65.1	19.5	22.5	23.5	43.5	71.2	92.4	90.0		427.6
Flyaway U/C										
Weapon System Proc U/C										

Description:
Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM is a DoD term that describes the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing fleets. Included in the GATM Program is an upgrade to the Identification Friend or Foe (IFF) Mode 5 capability.

Justification:
FY07 procures and installs B-Kits and A-Kits for the AH-64A/D, CH-47D, UH-60A/L/M, and Special Operations Aircraft (SOA) which will allow Rotary Wing aircraft to meet near-term GATM requirements and initial Identification Friend or Foe (IFF) Mode 5 Upgrades. Europe mandates a Mode-S transponder for all flights after Mar 09. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates. The Mode-S transponder impacts over 300 European based aircraft as well as those deploying to Europe. The recurring procurement of Mode-S kits started in FY02 and procurement and installations continue. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements. GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion. IFF Mode 5 provides enhanced security and greatly improved performance over Mode 4. It maintains compatibility with civil ATC with less interference.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 2 / Modification of aircraft	GATM - Rotary Wing Aircraft (AA0704)		
Program Elements for Code B Items:		Code:	Other Related Program Elements: SSN AA0701, SSN AA0711

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Global Air Traffic Management - RW											
GATM-RW	Unclassified	65.1	19.4	22.5	23.5	43.5	71.2	92.4	90.0	0.0	427.6
Totals		65.1	19.4	22.5	23.5	43.5	71.2	92.4	90.0	0.0	427.6

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE: Global Air Traffic Management - RW [MOD 1] GATM-RW

MODELS OF SYSTEM AFFECTED: CH-47D, UH-60A/L/M, MH-47D/E, MH-60L/K, A/MH-6, TH-67, AH-64/A/D

DESCRIPTION / JUSTIFICATION:

Funding will address high priority requirements for enhanced communications and surveillance equipment necessary for airspace access for rotary wing aircraft operations (peacetime and wartime missions) worldwide. Initial funding will procure and install Mode-S transponders for all rotary wing aircraft, except the OH-58D and TH-67. The TH-67 is receiving uploaded GPS Navigation equipment capable of providing necessary GPS IFR flight training.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

B kit quantities exceed A kit and installation quantities due to some aircraft being addressed on the production line. The production line quantities do not require A-Kits or installs. The remaining B-Kits are for trainers and simulators. A and B-Kits were procured in FY02 to address a March 03 Mode-S Mandate in Europe. That mandate has since slipped to March 2009. Installation has progressed slower than anticipated due to lack of aircraft availability as a result of deployments.
Began fielding the APX-118 Mode-S Transponders for the UH-60 and CH-47 fleet (May 2004). A & B kit unit and installation costs vary by platform.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	509	20	51	51	51	75	74	70	73	76	76	76	69	58	59	59	59	116	117	117	117
Outputs	85	42	22	25	138	123	98	95	95	95	95	95	95	95	95	95	100	100	100	100	85

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	144	144	144	144	203	204	204	204										3364
Outputs	100	100	100	100	100	100	100	100	160	182	178	171						3364

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 11 months

Contract Dates: FY 2006 - Mar 06 FY 2007 - Mar 07 FY 2008 - Mar 08

Delivery Dates: FY 2006 - Feb 07 FY 2007 - Feb 08 FY 2008 - Feb 09

INDIVIDUAL MODIFICATION Date: February 2006

MODIFICATION TITLE (cont): Global Air Traffic Management - RW [MOD 1] GATM-RW

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	0																			
Procurement	0																			
Kit Quantity - B Kits	874	27.5	301	12.6	225	11.6	220	12.5	525	30.3	690	43.4	669	48.9	453	34.0			3957	220.8
B-Kits, Nonrecurring														4.4		15.4				19.8
Kit Quantity - A Kits	660	2.9	244	0.7	274	1.4	173	1.5	253	1.8	760	6.9	575	8.3	425	7.5			3364	31.0
Aircraft Integration - Nonrecurring	0	12.9								1.8										14.7
ECP	0					0.1		0.3		0.4		0.6		0.8		0.7				2.9
Data	0					0.5		0.5		0.6		1.2		2.0						4.8
Training Equipment	0	0.4				0.7		0.4		0.4		0.8		0.8						3.5
Systems Engineering	0	1.9		1.0		2.1		1.0		0.5		1.2		1.4		1.7				10.8
Systems Test & Eval	0	0.1		0.9		1.2		0.3		0.6		2.2		2.9		2.7				10.9
Fielding/Training	0	1.7		0.5		1.4		0.5		0.4		0.5		0.6		0.6				6.2
Upgrades (Mode 5)	0							2.9		2.2		3.6		8.0		8.8				25.5
Other PM Admin	0	3.5		0.8		1.3		1.3		2.2		3.7		4.6		4.3				21.7
Other		11.3		1.9																13.2
Installation of Hardware	0																			
FY2004& Prior Equip -- Kits	509	2.9	151	0.6															660	3.5
FY2005 Equip -- Kits	0		22	0.4	152	1.2	70	0.7											244	2.3
FY2006 Equip -- Kits	0				140	1.0	134	0.8											274	1.8
FY2007 Equip -- Kits	0						93	0.8	80	1.0									173	1.8
FY2008 Equip -- Kits	0								155	1.3	98	1.6							253	2.9
FY2009 Equip -- Kits	0										369	5.5	391	6.5					760	12.0
FY2010 Equip -- Kits	0												185	3.2	390	6.9			575	10.1
FY2011 Equip -- Kits	0														425	7.4			425	7.4
TC Equip- Kits	0																			
Total Installment	509	2.9	173	1.0	292	2.2	297	2.3	235	2.3	467	7.1	576	9.7	815	14.3	0	0.0	3364	41.8
Total Procurement Cost		65.1		19.4		22.5		23.5		43.5		71.2		92.4		90.0		0.0		427.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 3 / Spares and repair parts	SPARE PARTS (AIR) (AA0950)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	1268.5	10.2	3.9	9.4	9.3	6.9	9.3	9.6	14.0	1341.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1268.5	10.2	3.9	9.4	9.3	6.9	9.3	9.6	14.0	1341.2
Initial Spares										
Total Proc Cost	1268.5	10.2	3.9	9.4	9.3	6.9	9.3	9.6	14.0	1341.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
Provides for the procurement of spares to support initial fielding of end items.

Justification:
FY 2007 Budget Request funds depot level reparables (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund.

Exhibit P-40, Budget Item Justification Sheet								Date: February 2006		
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities				P-1 Item Nomenclature AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)						
Program Elements for Code B Items:		Code:		Other Related Program Elements: SSN AA0720; PE/Project 0604270A/665						
	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	505.0	11.6	11.2	27.9	44.0	31.7	61.9	63.2	607.7	1364.3
Less PY Adv Proc	11.6									11.6
Plus CY Adv Proc	11.6									11.6
Net Proc P1	505.0	11.6	11.2	27.9	44.0	31.7	61.9	63.2	607.7	1364.3
Initial Spares										
Total Proc Cost	505.0	11.6	11.2	27.9	44.0	31.7	61.9	63.2	607.7	1364.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
The Aircraft Survivability Equipment (ASE) project includes ASE Warning Receivers, ASE Radar Countermeasures, and Suite of Radio Frequency Countermeasures (SIRFC). The description and justification for each project are included on the designated P-Form.

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: AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
ASE Warning Receivers (ASET IV)		2425			2127			1494		
AN/AVR-2B Laser Warning		9185			5422			5301		
A/C Surv Equip Dev (APR 39V(X))					3651			21125		
Total		**11610**			**11200**			**27920**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	ASE WARNING RECEIVERS (AZ3506)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	348.2	2.4	2.1	1.5	1.7	2.0	2.1	2.2	30.6	392.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	348.2	2.4	2.1	1.5	1.7	2.0	2.1	2.2	30.6	392.9
Initial Spares										
Total Proc Cost	348.2	2.4	2.1	1.5	1.7	2.0	2.1	2.2	30.6	392.9
Flyaway U/C										
Weapon System Proc U/C										

Description:
The Aircraft Survivability Equipment Trainer IV (ASET IV) suite is to provide training against a simulated air defense battery. The suite consists of six High Mobility Multi-purpose Wheeled Vehicles (HMMWV) and enables aircrews of Army Aviation Platforms the capability to train in recognizing surface-to-air missiles (SAM) and anti-aircraft artillery (AAA) threats in order to employ the correct aircraft threat avoidance tactics. The ASET IV suites will be retired FY06 in favor of a man-portable training device that simulates shoulder fired weapons. This threat simulator will provide training through the actual stimulation of the Common Missile Warning System (CMWS). The CMWS provides protection against man-portable and other missile systems. Man-portable radar threat simulators are also being produced along with the CMWS stimulators. These man-portable training devices are in the competition phase. The aircraft training against this new man portable training devices include the Apache, Chinook, Kiowa Warrior, Blackhawk, and Fixed Wing platforms.

Justification:
FY 2007 fields man portable CMWS stimulators and radar warning receiver threat simulators for aviation Combat Training Centers (CTC) and home stations.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 4 / Support equipment and facilities	ASE RADAR CM (AZ3508)	
Program Elements for Code B Items:	**Code:**	**Other Related Program Elements:** SSN AA0720; PE/Project 0604270A/665

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	156.8	9.2	5.4	5.3	5.7	5.7	10.7	11.8	577.1	787.6
Less PY Adv Proc	11.6									11.6
Plus CY Adv Proc	11.6									11.6
Net Proc P1	156.8	9.2	5.4	5.3	5.7	5.7	10.7	11.8	577.1	787.6
Initial Spares										
Total Proc Cost	156.8	9.2	5.4	5.3	5.7	5.7	10.7	11.8	577.1	787.6
Flyaway U/C										
Weapon System Proc U/C										

Description:
The AN/AVR-2B is a passive threat laser warning system that alerts the aircrew that they are being targeted by threat forces allowing the aircrew to engage the target or maneuver to break the targeting. Detects aircraft illumination by laser rangefinders, designators, and beam rider surface to air missiles. Provides aircrew visual and audio warnings according to threat lethality. Provides 360 degree azimuth and 90 degree elevation field of view coverage. Detects aircraft illumination by Multiple Integrated Laser Engagement/Air Ground Engagement System (MILES/AGES) II lasers.

Justification:
FY 2007 procures AN/AVR-2B systems for selected aircraft in support of the Required Operational Capability (ROC) and the aircraft missions.

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 RADAR CM (AZ3508)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
AN/AVR-2B Laser Warning										
AN/AVR-2A System Acquisition										
AN/AVR-2B System Acquisition		5874	66	89	5022	40	126	4128	30	138
Engineering Change Proposals										
Non-Recurring Engineering		2524								
Program Management		787			400			400		
Engineering Services								773		
Total		**9185**			**5422**			**5301**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		ASE RADAR CM (AZ3508)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/AVR-2A System Acquisition										
FY 2004	Goodrich Danbury, CT	C/FFP	CECOM, Ft. Monmouth, NJ	Jul 04	Jul 05	20	125	Yes		
AN/AVR-2B System Acquisition										
FY 2005	LSI Shrewsbury,NJ	C/FFP	CECOM, Ft. Monmouth, NJ	Mar 05	Jan 06	66	89	Yes		
FY 2006	LSI Shrewsbury,NJ	C/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Sep 06	40	126	Yes		
FY 2007	LSI Shrewsbury,NJ	C/FFP	CECOM, Ft. Monmouth, NJ	Dec 07	Nov 08	30	138	Yes		

REMARKS: There are two versions of the Laser Detection System, a 4 Sensor version and a 6 Sensor version. The unit cost of system varies because large aircraft, e.g. CH-47 Chinook requires two additional sensors. The 4 sensor unit cost is $89,000 and the 6 sensor unit cost is $128,000.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE RADAR CM (AZ3508)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												Later
										Calendar Year 06														Calendar Year 07								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/AVR-2B System Acquisition																															
	2	FY 05	A	66	0	66				4	10	10	10	10	10	10	2														0
	2	FY 06	A	40	0	40			A									5	5	5	5	5	5	5	5						0
	2	FY 07	A	30	0	30															A										30
Total				136		136				4	10	10	10	10	10	10	2	5	5	5	5	5	5	5	5						30

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Goodrich, Danbury, CT	5	20	30	0
2	LSI, Shrewsbury,NJ	5	20	30	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	1	12	13
	Reorder	0	1	12	13
2	Initial	0	7	9	16
	Reorder	0	1	9	10
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE RADAR CM (AZ3508)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09											Later
							Calendar Year 08												Calendar Year 09											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/AVR-2B System Acquisition																														
	2	FY 05	A	66	66																									0
	2	FY 06	A	40	40																									0
	2	FY 07	A	30	0	30		5	5	5	5	5	5																	0
Total				136	106	30		5	5	5	5	5	5																	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Goodrich, Danbury, CT	5	20	30	0
2	LSI, Shrewsbury,NJ	5	20	30	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	1	12	13
	Reorder	0	1	12	13
2	Initial	0	7	9	16
	Reorder	0	1	9	10

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature		
Aircraft Procurement, Army / 4 / Support equipment and facilities	SIRFC (AZ3511)		
Program Elements for Code B Items:	**Code:**	**Other Related Program Elements:** 0604270A.665 A/C Surv Equip Dev	

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost			3.7	21.1	36.6	24.0	49.2	49.2		183.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			3.7	21.1	36.6	24.0	49.2	49.2		183.7
Initial Spares										
Total Proc Cost			3.7	21.1	36.6	24.0	49.2	49.2		183.7
Flyaway U/C										
Weapon System Proc U/C										

Description:
The objective of the Aircraft Survivability Equipment (ASE) project is to improve radio frequency (RF) ASE for Army aviation. Phase 1 upgrades the Processor Line Replaceable Unit (LRU) of the AN/APR-39A(V)1 Radar Signal Detecting Set through modernization and reduced parts count. Along with improved maintainability and reliability, performance will be enhanced via increased processing speed and expanded memory. These improvements will result in faster response time, better dense environment capability and improved parameter measurement. Phase 1 serves to make the currently fielded system viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3. Phase 2 initiates an improved digital Radar Warning Receiver (RWR) and Phase 3 adds active Electronic Countermeasures (ECM) for selected aircraft.

Justification:
FY 07 APA funds are required to procure Phase I upgrade kits for the APR-39A(V)1.

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: SIRFC (AZ3511)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Systems Eng/Mgt					519			898		
Recurring Production								16756	440	38
Training								67		
Data								57		
Fielding								3347		
Test and Evaluation					3132					
Total					**3651**			**21125**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		SIRFC (AZ3511)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Recurring Production										
FY 2007	TBD TBD	TBD	CECOM, Ft. Monmouth, NJ	Jun 07	Jun 08	440	38			

REMARKS: MS C for Phase I is planned for 2Q FY07.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
SIRFC (AZ3511)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
										Calendar Year 07												Calendar Year 08										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Recurring Production																															
	1	FY 07	A	440	0	440									A												75	75	75	75	140
Total				440		440																					75	75	75	75	140
							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	TBD, TBD	60	80	100	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	3	4	15	19
	Reorder	0	0	0	0
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
SIRFC (AZ3511)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
							Calendar Year 09												Calendar Year 10											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Recurring Production																														
	1	FY 07	A	440	300	140	75	65																						0
Total				440	300	140	75	65																						

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	TBD, TBD	60	80	100	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	3	4	15	19
	Reorder	0	0	0	0
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	136.0	322.6	209.3	305.6	370.5	426.5	322.1	246.6	369.9	2709.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	136.0	322.6	209.3	305.6	370.5	426.5	322.1	246.6	369.9	2709.1
Initial Spares										
Total Proc Cost	136.0	322.6	209.3	305.6	370.5	426.5	322.1	246.6	369.9	2709.1
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.

FY 2005 funding includes $47.7 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom (OIF).

Justification:
FY 2007 procures nonrecurring engineering and recurring production of the ATIRCM/CMWS A-Kits and B-Kits.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
A Kit Recurring	B	62570	782	75	20724	314	66	31015	417	74
A Kit Installation		23361			15000			33503		
A Kit ATIRCM Retrofits										
CMWS Recurring Hardware	B	48430	240	202	69600	240	290	72384	240	302
ATIRCM Recurring Hardware	B	39130	24	1630						
ATIRCM B-Kit Nonrecurring		13512			42028			56884		
A-Kit Integration		83320			5667			36286		
ICS/Spt Eq/Trans/Training		12835			10470			25331		
In House/Matrix Spt		20344			20500			17647		
Program Management		4634			10650			11584		
Spares		11433			10113			16044		
CTR SEPM/ECO/SW Spt		3000			4500			4953		
Total		**322569**			**209252**			**305631**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

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 $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A Kit Recurring										
FY 2005	Various Various	CPFF	Various	Oct 04	Apr 05	782	75	Yes		
FY 2006	Various Various	CPFF	Various	Dec 05	Jun 06	314	66	Yes		
FY 2007	Various Various	CPFF	Various	Dec 06	May 07	417	74	Yes		
CMWS Recurring Hardware										
FY 2005	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct 04	May 05	240	202	Yes		
FY 2006	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 05	Aug 06	240	290	Yes		
FY 2007	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Aug 07	240	302	Yes		
ATIRCM Recurring Hardware										
FY 2005	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 04	Jan 06	24	1630	Yes		

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05											Later
							Calendar Year 04												Calendar Year 05											
							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 05	A	782	0	782													A						21	41	72	53	56	38	501
	1	FY 06	A	314	0	314																									314
	1	FY 07	A	417	0	417																									417
CMWS Recurring Hardware																														
	2	FY 05	A	240	0	240													A							10	6	10	28	20	166
	2	FY 06	A	240	0	240																									240
	2	FY 07	A	240	0	240																									240
ATIRCM Recurring Hardware																														
	3	FY 05	A	24	0	24															A										24
	3	FY 06	A		0																										0
	3	FY 07	A		0																										0
Total				2257		2257																			21	51	78	63	84	58	1902
							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	0
2	BAE Systems (CMWS), Nashua, NH	48	200	480	0
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	0

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
Delivery period exceeds 12 months because of multiple delivery orders.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07											Later
							Calendar Year 06												Calendar Year 07											
							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 05	A	782	281	501	44	37	76	59	5	67	64	72	32	30	15													0
	1	FY 06	A	314	0	314			A					0	12	35	40	19	17	26	26	26	26	26	26	35					0
	1	FY 07	A	417	0	417															A					34	34	34	35	35	245
CMWS Recurring Hardware																														
	2	FY 05	A	240	74	166	20	20	20	20	20	20	20	20	6	0	0	0	0	0	0	0									0
	2	FY 06	A	240	0	240			A								20	20	20	20	20	20	20	20	20	20	20	20	0	0	0
	2	FY 07	A	240	0	240															A								20	20	200
ATIRCM Recurring Hardware																														
	3	FY 05	A	24	0	24				2	2	2	2	2	2	2	2	2	2	2	2										0
	3	FY 06	A		0																										0
	3	FY 07	A		0																										0
Total				2257	355	1902	64	57	96	81	27	89	86	94	52	67	77	41	39	48	48	46	46	46	46	89	54	54	55	55	445
							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	0
2	BAE Systems (CMWS), Nashua, NH	48	200	480	0
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	0

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
Production rates are yearly rates.

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09												Later
							Calendar Year 08												Calendar Year 09												
							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 05	A	782	782		0	0	0	0	0	0	0																		0
	1	FY 06	A	314	314		0	0	0																						0
	1	FY 07	A	417	172	245	35	35	35	35	35	35	35																		0
CMWS Recurring Hardware																															
	2	FY 05	A	240	240																										0
	2	FY 06	A	240	240																										0
	2	FY 07	A	240	40	200	20	20	20	20	20	20	20	20	20	20															0
ATIRCM Recurring Hardware																															
	3	FY 05	A	24	24																										0
	3	FY 06	A		0																										0
	3	FY 07	A		0																										0
Total				2257	1812	445	55	55	55	55	55	55	55	20	20	20															
							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	0
2	BAE Systems (CMWS), Nashua, NH	48	200	480	0
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	0

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: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIRBORNE COMMAND & CONTROL (AA0710)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	79.9	28.1	27.7	40.2	53.9	80.0	87.7	18.1		415.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	79.9	28.1	27.7	40.2	53.9	80.0	87.7	18.1		415.6
Initial Spares										
Total Proc Cost	79.9	28.1	27.7	40.2	53.9	80.0	87.7	18.1		415.6
Flyaway U/C										
Weapon System Proc U/C										

Description:

This project funds the procurement of Airborne Battle Command On The Move Systems required to horizontally and vertically integrate a linear and non-linear battlefield. The Army Airborne Command and Control System (A2C2S) is an Army Airborne Battle Command acquisition program for a system supporting the Unit of Employment, and Brigade Combat Teams. The A2C2S enables Commanders and their staffs, to traverse the battle space rapidly - maintaining situational awareness of all battlefield systems - and maintaining communications throughout the decision continuum. Using Battle Command Software and line-of-sight and non-line-of-sight voice and data communications, the A2C2S provides information superiority through a common operational picture. In addition, A2C2S is the airborne first-responder for Homeland Security and disaster relief by providing a robust communications platform for emergency response coordinators of air and ground operations. It will support initial and remote scene operations centers, convoy operations, and disaster coordination between state, federal, civilian and military assets. This system is critical to enhance the Battle Command Group's ability to effectively perform combat unit operations and serve as a force multiplier in the Future Force. The first 5 (five) A2C2S LRIP systems have been fielded to units deploying to support OIF/OEF under an Urgent Material Release.

Justification:

FY 2007 procures seven(7) A2C2S sets which will be fielded to 2ID, 1AD, 1ID and 101st.

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: AIRBORNE COMMAND & CONTROL (AA0710)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
A2C2S Integration/CFE/GFE		15184	4	3796	18000	4	4500	25480	7	3640
Project Mgt/Production Eng		5827			8461			8461		
Fielding (NET, Spares)		2445			1217			2639		
Interim Contract Support		619								
System Refresh/Technology Insertion								3640		
Inmarsat Integration/Retrofit		3400								
CPOF/SIS upgrade		590								
Total		**28065**			**27678**			**40220**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		AIRBORNE COMMAND & CONTROL (AA0710)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A2C2S Integration/CFE/GFE										
FY 2005	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Jan 05	Oct 05	4	3796			N/A
FY 2006	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Nov 05	Mar 06	4	4500			N/A
FY 2007	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Nov 06	Mar 07	7	3640			N/A

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AVIONICS SUPPORT EQUIPMENT (AZ3000)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Initial Spares										
Total Proc Cost	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
Consists of a family of avionics support equipment. Current program consists of the Aviators' Night Vision Imaging System (ANVIS).

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	Code:	Other Related Program Elements:
Aircraft Procurement, Army / 4 / Support equipment and facilities	ANVIS (K35601)	A	Program Elements for Code B Items:

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	2925									2925
Gross Cost	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Initial Spares										
Total Proc Cost	462.4	5.1	3.4	5.1	5.1	5.1	5.1	5.1		496.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
The AN/AVS-6, Aviator's Night Vision Imaging System (ANVIS), supports the Army's objectives by permitting superior tactical mobility of rotary wing aircraft during darkness and low light conditions. The AN/AVS-6 is a binocular, helmet-mounted system for Aviation crew members. The AN/AVS-6(V)3 is an enhanced night vision goggle that significantly expands the input dynamic range to support operations in conditions that vary from below "starlight" illumination levels through strong urban lighting situations.

Justification:
FY2007 procures AN/AVS-6(V)3 systems for fielding to Active, Army Reserves and National Guard Units. The increased capability of the AN/AVS-6(V)3 yields enhanced mission performance and improved safety of flight, compared to what is now possible using previous AN/AVS-6 systems. The AN/AVS-6(V)3 enhances the survivability, lethality, and tactical mobility for aviators.

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: ANVIS (K35601)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
K35601 ANVIS/HUD										
ANVIS		4659	826	6	2657	437	6	4309	764	6
Engineering Support		39			333			353		
Project Management Admin		371			111			116		
Engineering Change Orders					80			58		
Fielding		47			191			226		
Total		**5116**			**3372**			**5062**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		ANVIS (K35601)

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
K35601 ANVIS/HUD										
FY 2005	ITT ROANOKE, VA	C/FP	CECOM	Nov 04	Aug 05	744	6	Yes		
FY 2005	ITT ROANOKE, VA	C/FP	CECOM	Mar 05	Mar 06	82	6	Yes		
FY 2006	ITT ROANOKE, VA	C/FP	CECOM	Jan 06	Oct 06	437	6	Yes		
FY 2007	ITT ROANOKE, VA	C/FP	CECOM	Dec 06	Sep 07	764	6	Yes		

REMARKS:

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ANVIS (K35601)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06											Later
							Calendar Year 05												Calendar Year 06											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
K35601 ANVIS/HUD																														
	1	FY 05	A	744	0	744		A									49	66	58	62	79	42	42	36	62	62	62	62	62		0
	1	FY 05	A	82	0	82						A												82						0
	1	FY 06	A	437	0	437																A								437
	1	FY 07	A	764	0	764																								764
Total				2027		2027											49	66	58	62	79	42	42	118	62	62	62	62	62		1201
							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	ITT, ROANOKE, VA	25	210	355	120

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	4	2	10	12
	Reorder	1	4	9	13
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
MFR delivered systems ahead of schedule.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ANVIS (K35601)

Date:
February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
										Calendar Year 07														Calendar Year 08									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
K35601 ANVIS/HUD																															
	1	FY 05	A	744	744																										0
	1	FY 05	A	82	82																										0
	1	FY 06	A	437	0	437	37	37	37	37	37	36	36	36	36	36	36	36													0
	1	FY 07	A	764	0	764			A									20	68	68	68	68	68	68	68	67	67	67	67		0
Total				2027	826	1201	37	37	37	37	37	36	36	36	36	36	36	56	68	68	68	68	68	68	68	67	67	67	67		
							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	ITT, ROANOKE, VA	25	210	355	120	1	Initial	4	2	10	12	
							Reorder	1	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	610.9	34.9	62.0	64.7	75.5	68.2	67.4	62.8		1046.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	610.9	34.9	62.0	64.7	75.5	68.2	67.4	62.8		1046.4
Initial Spares										
Total Proc Cost	610.9	34.9	62.0	64.7	75.5	68.2	67.4	62.8		1046.4
Flyaway U/C										
Weapon System Proc U/C										

Description:
Provides various types of ground support equipment.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	253.3	34.9	62.0	64.7	75.5	68.2	67.4	62.8		688.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	253.3	34.9	62.0	64.7	75.5	68.2	67.4	62.8		688.8
Initial Spares										
Total Proc Cost	253.3	34.9	62.0	64.7	75.5	68.2	67.4	62.8		688.8
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 II (AVA II), Aviation Intermediate Maintenance (AVIM) Shop Sets, Battle Damage Assessment and Repair (BDAR) System, Aircraft Wash System (AWS), Aviation Ground Power Unit (AGPU), Shop Equipment Contact Maintenance (SECM), Unit Maintenance Aerial Recovery Kit (UMARK), Digital Aircraft Weight Scales (DAWS), Generic Aircraft Nitrogen Generator (GANG), Aviation Turbine Engine Diagnostic System (ATEDS), Standard Aircraft Towing System (SATS), Flexible Engine Diagnostics System (FEDS) Computer Replacements, Nondestructive Test Equipment (NDTE), and Transformation Aviation - Sets, Kits, Outfits and Tools (A-SKOT). These products provide the finest materiel and support solutions to Army Aviation.

Justification:
FY 07 procures 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 FY07. 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 - Sets, Kits, Outfits and Tools (A-SKOT) provides standardized tools, kits and outfits which meet transformation modularity, flexability and mobility requirements for repair of rotary wing aircraft. 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 400 hertz (Hz) electrical servicing of the Apache Longbow (AH-64D). The Digital Aircraft Weight Scales (DAWS) performs aircraft weighing without use of load cells or jacking of wheeled aircraft and can be used during deployment to weigh aircraft before loading on C-5 or C-17 aircraft. 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 Aviation Turbine Engine Diagnostic System (ATEDS) provides an on the ground-based engine diagnostic system for UH-60, CH-47F, AH-64D and other Army aircraft. The SATS provides a multipurpose support vehicle to complement AGSE modularization concept. This provides a critical maintenance enabler to the warfighter.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Nondestructive Test Equipment (NDTE)		357						4320		
Unit Maint Aerial Recovery Kit (UMARK)		1895			2590					
Aviation Vibration Analyzer II (AVA II)		355			325					
Aviation Ground Power Unit (AGPU)		4045			14755			7959		
Aviation Turbine Engine Diag Sys (ATEDS)								7656		
Battle Damage Assess Repair Kit (BDAR)		10367			16212			8800		
Standard Aircraft Towing System (SATS)								5755		
Shop Equipment Contact Maint (SECM)		414								
Avn-Sets, Kits, Outfits, Tools (A-SKOT)		945						13115		
Avn Intermediate Maint (AVIM) Shop Sets		11550			9845			10941		
Brigade Aviation Element (BAE)					12000					
Flexible Engine Diagnostics Sys (FEDS)		1737			1609					
Generic Aircraft Nitro Generator (GANG)		1187						1088		
Digital Aircraft Weight Scales (DAWS)					2060			1680		
Program Management Support		1746			2472			3208		
Fielding		10			25			61		
Test and Eval (T&E)		314			100			100		
Subtotal		**34922**			**61993**			**64683**		
Total		**34922**			**61993**			**64683**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	162.4	32.3	31.8	35.3	42.7	39.4	57.4	42.8		444.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	162.4	32.3	31.8	35.3	42.7	39.4	57.4	42.8		444.2
Initial Spares										
Total Proc Cost	162.4	32.3	31.8	35.3	42.7	39.4	57.4	42.8		444.2
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 include 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 2007 procures and fields the Air Warrior Block 1 basic ensemble, including A Kit and B Kit production and installations, and the Electronic Data Manager (EDM) for deploying units and begins procurement of the Aircraft Wireless Intercom System (AWIS).

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Hardware										
-										
Air Warrior Block 1 Ensembles		8207	4801	1.7	6376	3100	2.6	7887	2800	2.8
Air Warrior A Kits		4518	318	14.2	5517	388	14.2	4886	343	14.2
A Kit Installs		2580			2209			2566		
Air Warrior Microclimate Cooling Garment		930	2850	0.3	446	1710	0.3	886	3220	0.3
Air Warrior Microclimate Cooling Units		7086	912	7.8	5118	651	7.9	6828	1105	6.2
-										
Block 2										
Electronic Data Mgr (EDM)		300	42	7.1	897	120	7.5	2280	285	8.0
EDM A Kits		560	56	10.0	1793	375	4.8			
Acft Wireless Intercom Sys (AWIS)								950	54	17.6
AWIS A Kits								297	54	5.5
EDM/AWIS Installs		26						327		
-										
Cockpit Air Bags (CABS) System & Install										
CABS A Kits					160	32	5.0			
CABS B Kits					680	32	21.3			
CABS Installs		6			177					
-		12456								
Total Hardware Costs		**24213**			**23373**			**26907**		
Other Costs										
Manuals		30			70			60		
New Equipment Training		38			195			200		
Initial Spares & Repair Parts		736			560			310		
Support Equipment		135			200			210		
Systems Test and Evaluation		166			157			150		
Total Other Costs		**1105**			**1182**			**930**		
Nonrecurring Costs										
Nonrecurring Engineering					468			500		
Total Nonrecurring Costs					**468**			**500**		

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Air Warrior ECP		292			350			305		
Systems Integration Engineering		2081			2186			2292		
Project Management Admin		2746			3035			3158		
Total ECP, Sys Int, & Admin Costs		**5119**			**5571**			**5755**		
Support Costs										
Fielding		685			800			800		
Contract Logistics Support		149			426			454		
Other										
Mobi-Mat Helipad System		996								
Total		**32267**			**31820**			**35346**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities

Weapon System Type:

P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)

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
Air Warrior Block 1 Ensembles										
FY 2005	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Dec 04	Mar 05	4801	1.7	Yes		Feb 03
FY 2006	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 06	Apr 06	3100	2.6	Yes		Feb 03
FY 2007	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 07	Apr 07	2800	2.8	Yes		Feb 03
Air Warrior A Kits										
FY 2005	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Jan 05	Apr 05	318	14.2	Yes		Dec 02
FY 2006	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 05	Apr 06	388	14.2	Yes		Dec 02
FY 2007	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 06	Apr 07	343	14.2	Yes		Dec 02
Air Warrior Microclimate Cooling Garment										
FY 2005	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 04	Apr 05	350	0.5	Yes		Aug 02
FY 2005	Med Eng, Inc Ogdensburg, NY	C/FP	Redstone Arsenal, AL	Jun 05	Jul 05	2500	0.3	Yes		Jan 05
FY 2006	Med Eng, Inc Ogdensburg, NY	C/Option	Redstone Arsenal, AL	Feb 06	May 06	1710	0.3	Yes		Jan 05
FY 2007	Med Eng, Inc Ogdensburg, NY	C/Option	Redstone Arsenal, AL	Dec 06	Apr 07	3220	0.3	Yes		Jan 05
Air Warrior Microclimate Cooling Units										
FY 2005	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 04	Jun 05	912	7.8	Yes		Aug 02
FY 2006	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Jan 06	Jun 06	651	7.9	Yes		Aug 02
FY 2007	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 06	Jun 07	1105	6.2	Yes		Aug 02
Electronic Data Mgr (EDM)										
FY 2005	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Mar 05	Jul 05	42	7.1	Yes		Jan 05
FY 2006	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Jan 06	Apr 06	120	7.5	Yes		Jan 05

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2006

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		AIRCREW INTEGRATED SYSTEMS (AZ3110)

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
FY 2007	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Dec 06	Apr 07	285	8.0	Yes		Jan 05
EDM A Kits										
FY 2005	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Mar 05	Jul 05	56	10.0	Yes		Jan 05
FY 2006	JVYS Huntsville, AL	C/FP	Huntsville, AL	Dec 05	Jan 06	375	4.8	Yes		Oct 05
Acft Wireless Intercom Sys (AWIS)										
FY 2007	TBS TBS	C/FP	TBS	Jan 07	Jun 07	54	17.6	No		
AWIS A Kits										
FY 2007	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Jan 07	Jun 07	54	5.5	No		
CABS A Kits										
FY 2006	Westwind Corporation Huntsville, AL	C/FFP	Huntsville, AL	Mar 06	Sep 06	32	5.0	Yes		May 02
CABS B Kits										
FY 2006	Simula, Inc. Phoenix, AZ	SS/FFP	Redstone Arsenal, AL	Mar 06	Sep 06	32	21.3	Yes		May 02

REMARKS: 1. Unit cost of Air Warrior Block 1 Ensembles is determined by the mix of items that make up a complete ensemble. FY06 includes procurement of overwater equipment.
2. The unit cost of Air Warrior A Kits varies by airframe. The mix of A Kits procured will effect the unit cost in that year.
3. Air Warrior Microclimate Cooling Unit cost varies due to the mix of Apache units purchased each year.

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06											Later
							Calendar Year 05												Calendar Year 06											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Air Warrior Block 1 Ensembles																														
	6	FY 05	A	4801	0	4801			A			128	572	500	520	520	520	520	520	520	481										0
	6	FY 06	A	3100	0	3100																A			370	520	520	520	520	520	130
	6	FY 07	A	2800	0	2800																									2800
Air Warrior A Kits																														
	9	FY 05	A	318	0	318				A			50	80	80	80	28														0
	9	FY 06	A	388	0	388															A				20	46	62	60	60	60	80
	9	FY 07	A	343	0	343																									343
Air Warrior Microclimate Cooling Garment																														
	10	FY 05	A	350	0	350			A				100	100	150																0
	15	FY 05	A	2500	0	2500									A	180	240	280	300	300	300	300	300	300							0
	15	FY 06	A	1710	0	1710																	A			300	300	300	300	300	210
	15	FY 07	A	3220	0	3220																									3220
Air Warrior Microclimate Cooling Units																														
	10	FY 05	A	912	0	912			A						80	120	120	120	120	120	120	112									0
	10	FY 06	A	651	0	651																A					51	80	80	80	360
	10	FY 07	A	1105	0	1105																									1105
							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+
6	Simula, Inc., Phoenix, AZ	1000	4000	8000	0
9	Westwind Corporation, Huntsville, AL	190	600	1000	0
10	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	0
13	Raytheon Technical Services, Indianapolis, IN	25	600	1200	0
15	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	0
17	JVYS, Huntsville, AL	200	600	1000	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	Initial	6	4	4	8
	Reorder	0	2	3	5
9	Initial	5	4	4	8
	Reorder	0	3	3	6
10	Initial	4	2	4	6
	Reorder	0	2	4	6
13	Initial	0	5	4	9
	Reorder	0	2	4	6
15	Initial	0	8	1	9
	Reorder	0	2	4	6

REMARKS

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05												Fiscal Year 06											Later
							Calendar Year 05												Calendar Year 06											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Electronic Data Mgr (EDM)																														
	13	FY 05	A	42	0	42						A				22	20													0
	13	FY 06	A	120	0	120																A			50	50	20				0
	13	FY 07	A	285	0	285																									285
EDM A Kits																														
	9	FY 05	A	56	0	56						A				25	31														0
	17	FY 06	A	375	0	375															A	64	64	64	94	89					0
Acft Wireless Intercom Sys (AWIS)																														
	14	FY 07	A	54	0	54																									54
AWIS A Kits																														
	9	FY 07	A	54	0	54																									54
CABS A Kits																														
	6	FY 06	A	32	0	32																		A					32	0
CABS B Kits																														
	6	FY 06	A	32	0	32																		A					32	0
Total				23248		23248						128	722	680	830	947	959	920	940	940	901	476	364	364	534	1005	953	960	960	1024	8641
							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+
6	Simula, Inc., Phoenix, AZ	1000	4000	8000	0
9	Westwind Corporation, Huntsville, AL	190	600	1000	0
10	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	0
13	Raytheon Technical Services, Indianapolis, IN	25	600	1200	0
15	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	0
17	JVYS, Huntsville, AL	200	600	1000	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	Initial	6	4	4	8
	Reorder	0	2	3	5
9	Initial	5	4	4	8
	Reorder	0	3	3	6
10	Initial	4	2	4	6
	Reorder	0	2	4	6
13	Initial	0	5	4	9
	Reorder	0	2	4	6
15	Initial	0	8	1	9
	Reorder	0	2	4	6

REMARKS

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
							Calendar Year 07												Calendar Year 08												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Air Warrior Block 1 Ensembles																															
	6	FY 05	A	4801	4801																										0
	6	FY 06	A	3100	2970	130	130																								0
	6	FY 07	A	2800	0	2800				A			320	520	520	520	520	400													0
Air Warrior A Kits																															
	9	FY 05	A	318	318																										0
	9	FY 06	A	388	308	80	40	40																							0
	9	FY 07	A	343	0	343			A				24	50	50	55	55	55	54												0
Air Warrior Microclimate Cooling Garment																															
	10	FY 05	A	350	350																										0
	15	FY 05	A	2500	2500																										0
	15	FY 06	A	1710	1500	210	210																								0
	15	FY 07	A	3220	0	3220			A				300	300	300	300	300	300	300	300	300	300	220								0
Air Warrior Microclimate Cooling Units																															
	10	FY 05	A	912	912																										0
	10	FY 06	A	651	291	360	90	90	90	90																					0
	10	FY 07	A	1105	0	1105			A						95	130	140	140	150	150	150	150									0
							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+
6	Simula, Inc., Phoenix, AZ	1000	4000	8000	0
9	Westwind Corporation, Huntsville, AL	190	600	1000	0
10	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	0
13	Raytheon Technical Services, Indianapolis, IN	25	600	1200	0
15	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	0
17	JVYS, Huntsville, AL	200	600	1000	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	Initial	6	4	4	8
	Reorder	0	2	3	5
9	Initial	5	4	4	8
	Reorder	0	3	3	6
10	Initial	4	2	4	6
	Reorder	0	2	4	6
13	Initial	0	5	4	9
	Reorder	0	2	4	6
15	Initial	0	8	1	9
	Reorder	0	2	4	6

REMARKS

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2006

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08												Later
							Calendar Year 07												Calendar Year 08												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Electronic Data Mgr (EDM)																															
	13	FY 05	A	42	42																										0
	13	FY 06	A	120	120																										0
	13	FY 07	A	285	0	285			A				50	50	50	50	50	35													0
EDM A Kits																															
	9	FY 05	A	56	56																										0
	17	FY 06	A	375	375																										0
Acft Wireless Intercom Sys (AWIS)																															
	14	FY 07	A	54	0	54				A						20	20	14													0
AWIS A Kits																															
	9	FY 07	A	54	0	54				A						20	20	14													0
CABS A Kits																															
	6	FY 06	A	32	32																										0
CABS B Kits																															
	6	FY 06	A	32	32																										0
Total				23248	14607	8641	470	130	90	90			694	920	1015	1095	1105	958	504	450	450	450	220								
							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+
6	Simula, Inc., Phoenix, AZ	1000	4000	8000	0
9	Westwind Corporation, Huntsville, AL	190	600	1000	0
10	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	0
13	Raytheon Technical Services, Indianapolis, IN	25	600	1200	0
15	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	0
17	JVYS, Huntsville, AL	200	600	1000	0

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	Initial	6	4	4	8
	Reorder	0	2	3	5
9	Initial	5	4	4	8
	Reorder	0	3	3	6
10	Initial	4	2	4	6
	Reorder	0	2	4	6
13	Initial	0	5	4	9
	Reorder	0	2	4	6
15	Initial	0	8	1	9
	Reorder	0	2	4	6

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	369.0	55.0	61.6	86.4	93.5	74.1	76.5	84.1		900.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	369.0	55.0	61.6	86.4	93.5	74.1	76.5	84.1		900.1
Initial Spares										
Total Proc Cost	369.0	55.0	61.6	86.4	93.5	74.1	76.5	84.1		900.1
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. 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. TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. 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:

FY07 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, VCSS, ILS, NAVAIDS, FBPAR) provide the Army a joint service capability required for the DoD/FAA 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.

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: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
Fixed Base Precision Approach Radar		847			3057			9443		
Voice Communication Switching Syst(VCSS)		1043			1475			1320		
DoD Advanced Automation System (DAAS)		6904			6736			8768		
Digital Airport Surveillance Radar(DASR)		5592			7246			11196		
Tactical Airspace Integration Sys (TAIS)		19509			14907			16034		
Air Traffic Navigation and Integration		16197			24254			26261		
TAIS Airspace Workstation (AWS)								3957		
ILS/NAVAIDS					225			2402		
TTCS Upgrades		4914			3662			6970		
Total		**55006**			**61562**			**86351**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	INDUSTRIAL FACILITIES (AZ3300)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	324.3	45.0	40.7	2.1	2.4	2.6	1.6	1.6		420.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	324.3	45.0	40.7	2.1	2.4	2.6	1.6	1.6		420.2
Initial Spares										
Total Proc Cost	324.3	45.0	40.7	2.1	2.4	2.6	1.6	1.6		420.2
Flyaway U/C										
Weapon System Proc U/C										

Description:

This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace test facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Aviation Technical Test Center (ATTC), Fort Rucker, AL and, beginning in FY 2007, Yuma Proving Ground (YPG), Yuma, AZ. Note: Preliminary Base Realignment and Closure (BRAC) decisions move the ATTC to the Redstone Technical Test Center in Huntsville, AL. All of the instrumentation and equipment to be procured for ATTC will be moved with the Test Center to Huntsville and will be used for Aircraft Testing in the relocation of this mission. This program also funds aviation sustainment level (Depot) tools, tool sets and test equipment for the four Aviation Classification Repair Activity Depots (AVCRAD).

Justification:

For ATTC, FY 2007 procures upgraded Local Area Network (LAN) components and interfaces used in handling large volumes of test data (replacement of obsolete servers, storage systems and other LAN equipment used for helicopter test data processing; LAN upgrades will provide increased reliability and decrease downtime due to equipment failure; software upgrades will enhance security and provide stable, vendor supported platforms for development activities); state-of-the-art engineering PC based workstations and tools for engineers to use in test data analysis, presentation, and reporting (workstation systems and engineering analysis software provide access to aviation performance and system test data); on-board instrumentation recorder for monitoring high speed digital avionics busses; various types of airborne instrumentation including analog and inertial sensors, Global Positioning System receivers, signal conditioning units, various types of data acquisition equipment and cockpit display components used to obtain aircraft performance data; new telemetry system components (Bit Sync, Receivers, Time Code Generators, etc.) and replacement of aging data acquisition systems, telemetry computer systems and telemetry operator stations; calibration and support equipment for flight test instrumentation and cameras and video recorders to capture in-flight events and document equipment failures. At YPG, FY 2007 procures development of a ground thermal target to test aircraft electro-optical systems and replacement of analytical equipment used for post mission data analysis and graphics data production of Best Estimate of Trajectory, Time, Space and Position Information Data Optimal Processor and Target Motion Resolution data. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded it's economic life. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	LAUNCHER, 2.75 ROCKET (A50100)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	61.6	2.4	2.3	2.4	2.4	2.5	2.8	3.0		79.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	61.6	2.4	2.3	2.4	2.4	2.5	2.8	3.0		79.3
Initial Spares										
Total Proc Cost	61.6	2.4	2.3	2.4	2.4	2.5	2.8	3.0		79.3
Flyaway U/C										
Weapon System Proc U/C										

Description:
The M261 19-tube and M260 7-tube rocket launchers are used to fire 2.75 Inch HYDRA 70 rockets from the following platforms: AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. The launchers are non-repairable yet durable enough to withstand as many as 32 rocket firings before being discarded. The empty weight of the M260 launcher is approximately 35 pounds, and the empty weight of the M261 launcher is approximately 82 pounds. The launcher permits fuze-timing selection from the cockpit and will launch rockets using either the MK 40 or the MK 66 motors.

Justification:
FY 2007 procures M260 7-tube rocket launchers for AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. Procurement replaces launchers expended as a result of annual rocket firings for training and replenishes the limited issuable stockage that has been depleted below levels acceptable to support training and war reserve requirements of Active Army, Special Operations Forces and Reserve Component usage.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIRBORNE COMMUNICATIONS (AA0705)

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	315.8	9.4								325.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	315.8	9.4								325.2
Initial Spares										
Total Proc Cost	315.8	9.4								325.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
The AN/ARC-220/VRC-100 High Frequency (HF) Radio Program answers Army Aviation's critical long-standing requirement for a Non-Line of Sight (NLOS) communications capability. The HF radio system allows continuous and reliable secure/non-secure communication between Army aircraft flying Nap-of-the-Earth (NOE) maneuvers and at NLOS distances with Aviation Tactical Operations Centers (TOC) and other Army aircraft. The radio incorporates Automatic Link Establishment (ALE) to eliminate manual searches for workable frequencies reducing pilot workload and enhancing communication connectivity. The AN/ARC-220/VRC-100 also provides a frequency hopping capability and is night vision compatible. The AN/ARC-220/VRC-100 provides a position reporting and data capability enhancing situational awareness and command and control.

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: AIRBORNE COMMUNICATIONS (AA0705)	Weapon System Type:	Date: February 2006

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
RECURRING COSTS										
A. AN/ARC-220 NOE HF Airborne Radio										
B. AN/VRC-100 Ground Radio										
C. A-Kits										
D. A-Kit Installation		4631	159	29						
SUBTOTAL		**4631**								
SUPPORT COST										
A. Fielding Support		4316								
B. Program Management		470								
SUBTOTAL		**4786**								
SUBTOTAL										
Total		**9417**								