DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
Fiscal Year (FY) 2008/2009 Budget Submission

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

February 2007

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APPROPRIATION SUMMARY

DOLLARS IN THOUSANDS

APPROPRIATION	FY 2006	FY 2007	FY 2008	FY 2009	PAGE
Aircraft Procurement, Army	3,400,309	4,949,714	4,179,848	5,172,910	**3**
TOTAL PROCUREMENT PROGRAM	**3,400,309**	**4,949,714**	**4,179,848**	**5,172,910**	

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APPROPRIATION Aircraft Procurement, Army

DOLLARS IN THOUSANDS

	ACTIVITY	**FY 2006**	**FY 2007**	**FY 2008**	**FY 2009**	**PAGE**
01	Aircraft	769,740	1,424,550	1,752,129	2,531,773	**4**
02	Modification of aircraft	1,949,226	2,939,528	1,776,854	1,861,387	**5**
03	Spares and repair parts	3,896	9,408	9,304	6,929	**6**
04	Support equipment and facilities	677,447	576,228	641,561	772,821	**7**
	APPROPRIATION TOTALS	**3,400,309**	**4,949,714**	**4,179,848**	**5,172,910**	

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST	FY 2008 QTY	FY 2008 COST	FY 2009 QTY	FY 2009 COST
	FIXED WING									
1	UTILITY F/W CARGO AIRCRAFT (A11000)			4,860		71,864		157,043		258,622
2	UTILITY F/W AIRCRAFT (A11300)			3,946		4,044				
	SUB-ACTIVITY TOTAL			*8,806*		*75,908*		*157,043*		*258,622*
	ROTARY									
3	ARMED RECONNAISSANCE HELICOPTER (A04203)					101,409		468,259		565,776
4	HELICOPTER, LIGHT UTILITY (LUH) (A05001)	A		88,718		166,505		230,491		226,270
5	UH-60 BLACKHAWK (MYP) (AA0005)		49	(644,426)	59	(973,621)	42	(771,710)	64	(1,028,848)
	Less: Advance Procurement (PY)			(-50,201)		(-77,991)		(-183,009)		(-117,584)
				594,225		895,630		588,701		911,264
6	UH-60 BLACKHAWK (MYP) (AA0005) Advance Procurement (CY)			77,991		185,098		116,745		120,461
7	CH-47 HELICOPTER (A05008)	A					6	(157,908)	16	(462,000)
	Less: Advance Procurement (PY)									(-32,982)
								157,908		429,018
8	CH-47 HELICOPTER (A05008) Advance Procurement (CY)							32,982		17,962
9	HELICOPTER NEW TRAINING (A06500)									2,400
	SUB-ACTIVITY TOTAL			*760,934*		*1,348,642*		*1,595,086*		*2,273,151*
	ACTIVITY TOTAL			**769,740**		**1,424,550**		**1,752,129**		**2,531,773**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST	FY 2008 QTY	FY 2008 COST	FY 2009 QTY	FY 2009 COST
	MODIFICATIONS OF AIRCRAFT									
10	GUARDRAIL MODS (TIARA) (AZ2000)			18,700		57,767		149,062		119,986
11	ARL MODS (TIARA) (AZ2050)	A		6,000		37,847		52,298		23,479
12	AH-64 MODS (AA6605)	A		(913,204)		(1,434,602)		(689,628)		(695,277)
	Less: Advance Procurement (PY)					(-38,736)		(-18,924)		(-40,957)
				913,204		1,395,866		670,704		654,320
13	AH-64 MODS (AA6605) Advance Procurement (CY)			38,736		18,924		40,957		29,373
14	CH-47 CARGO HELICOPTER MODS (AA0252)			(668,787)		(1,118,116)		(577,250)		(727,052)
	Less: Advance Procurement (PY)			(-23,722)		(-24,658)		(-36,592)		(-39,182)
				645,065		1,093,458		540,658		687,870
15	CH-47 CARGO HELICOPTER MODS (AA0252) Advance Procurement (CY)			24,658		36,592		39,182		49,619
16	UTILITY/CARGO AIRPLANE MODS (AA0270)			15,888		9,913		17,175		15,045
17	AIRCRAFT LONG RANGE MODS (AA0560)			619		363		340		582
18	LONGBOW (AA6670)			83,380						
19	UH-60 MODS (AA0480)			58,992		57,957		13,035		10,951
20	KIOWA WARRIOR (AZ2200)			23,736		43,479		20,807		13,846
21	AIRBORNE AVIONICS (AA0700)			88,471		155,824		179,565		176,475
22	GATM Rollup (AA0711)	A		31,777		31,538		53,071		79,841
	SUB-ACTIVITY TOTAL			*1,949,226*		*2,939,528*		*1,776,854*		*1,861,387*
	ACTIVITY TOTAL			**1,949,226**		**2,939,528**		**1,776,854**		**1,861,387**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST	FY 2008 QTY	FY 2008 COST	FY 2009 QTY	FY 2009 COST
	SPARES AND REPAIR PARTS									
23	SPARE PARTS (AIR) (AA0950)			3,896		9,408		9,304		6,929
	SUB-ACTIVITY TOTAL			*3,896*		*9,408*		*9,304*		*6,929*
	ACTIVITY TOTAL			**3,896**		**9,408**		**9,304**		**6,929**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2006 QTY	FY 2006 COST	FY 2007 QTY	FY 2007 COST	FY 2008 QTY	FY 2008 COST	FY 2009 QTY	FY 2009 COST
	GROUND SUPPORT AVIONICS									
24	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)			7,549		29,600		48,120		57,350
25	ASE INFRARED CM (AZ3507)			440,295		304,403		365,472		437,328
	SUB-ACTIVITY TOTAL			*447,844*		*334,003*		*413,592*		*494,678*
	OTHER SUPPORT									
26	AIRBORNE COMMAND & CONTROL (AA0710)			26,678		40,058				
27	AVIONICS SUPPORT EQUIPMENT (AZ3000)			3,284		5,043		5,065		5,065
28	COMMON GROUND EQUIPMENT (AZ3100)			61,349		59,552		80,221		104,693
29	AIRCREW INTEGRATED SYSTEMS (AZ3110)			31,820		40,632		42,727		39,430
30	AIR TRAFFIC CONTROL (AA0050)			63,492		92,504		95,203		123,938
31	INDUSTRIAL FACILITIES (AZ3300)			40,669		2,092		2,377		2,556
32	LAUNCHER, 2.75 ROCKET (A50100)			2,311		2,344		2,376		2,461
	SUB-ACTIVITY TOTAL			*229,603*		*242,225*		*227,969*		*278,143*
	ACTIVITY TOTAL			**677,447**		**576,228**		**641,561**		**772,821**
	APPROPRIATION TOTAL			**3,400,309**		**4,949,714**		**4,179,848**		**5,172,910**

NOMENCLATURE INDEX

SSN INDEX

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
GUARDRAIL MODS (TIARA) (AZ2000)										
GUARDRAIL Information Node (GRFN)	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	13.1									13.1
Upward Frequency extension (UFX)	3.4									3.4
System 2 Tracker & LAN Upgrade	5.1									5.1
Guardian Eagle System Upgrades	28.9									28.9
Comm High Accuracy Location Sys-Compact (CHALS-C	7.8	5.2	8.3	6.8						28.1
System 2 Stabilization	3.5									3.5
Enhance Situational Awareness (ESA) Subsystem		49.9	86.9	87.8	19.5	12.6	46.5	13.3		316.5
Guardrail Ground Base Sub-System		2.7	2.7							5.4
High Band Comint (HBC) Subsystem			44.8	25.5				19.4		89.7
Special Signals Subsystem			6.4		10.5	18.4		14.4		49.7
Total	**75.5**	**57.8**	**149.1**	**120.1**	**30.0**	**31.0**	**46.5**	**47.1**		**557.1**
ARL MODS (TIARA) (AZ2050)										
Radar	11.0	6.0	9.1	2.0	1.0	1.5				30.6
Imagery	6.5	2.8	11.0	5.0	3.8	7.1	2.7	2.8		41.7
Workstation Architecture		4.0	4.2	3.0	0.5	2.0				13.7
Safety Upgrades	11.4	4.0	2.4							17.8
Comint Upgrades	25.2	6.6	6.3	5.9	4.9	4.0				52.9
System Interoperability		6.0	10.3	7.6	6.5	3.0				33.4
ARL-C to ARL-M Conversion		8.4	9.0							17.4
System Standardization	1.1									1.1
Joint Tactical Terminal (JTT) Integration	0.7									0.7
Upgrade to DAMA Compliant Radio	7.7									7.7
Total	**63.6**	**37.8**	**52.3**	**23.5**	**16.7**	**17.6**	**2.7**	**2.8**		**217.0**
AH-64 MODS (AA6605)										
Apache Sensors Life Extension & Upgrades	121.9	5.4	9.4	10.6	8.6	8.8	9.0	9.2		182.9
AH-64A MISC Mods $5M or less (no P3a set)	713.6	5.7	5.4	11.6	8.0	6.4	9.6	6.6		766.9

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
Apache Transformation	34.6	2.7	4.1	4.9			4.0			50.3
Modernized TADS/PNVS (M-TADS)	309.7	204.7	98.9	126.4						739.7
701C Engines (no P3a set)	40.0									40.0
Internal Auxiliary Fuel System (IAFS)	26.4	23.3	7.4	39.0	10.0					106.1
AH-64 R&S & Recap	135.8	76.3	3.0	25.9	20.4	6.0	21.2	8.3		296.9
AH-64D Block III				11.1	162.1	429.4	563.1	615.3	5732.7	7513.7
Fire Control Radar (FCR)Obsolescence & Integration	4.9	4.0	3.8							12.7
AH-64 Training Devices	44.2									44.2
AH-64 Extended Block II Upgrade	49.0	470.4	508.0	430.9	218.1					1676.4
AH-64 Post Production Organic Support	1.1	1.3	2.1	23.3	29.7					57.5
AH-64D Longbow War Replacement Aircraft (WRA)	419.1	621.0								1040.1
AH-64D Modernized Control Laws and Stick Shaker						5.1	21.4	14.8	0.1	41.4
Aircraft Survivability Product Improvement (ASPI)			69.6							69.6
Total	**1900.3**	**1414.8**	**711.7**	**683.7**	**456.9**	**455.7**	**628.3**	**654.2**	**5732.8**	**12638.4**
CH-47 CARGO HELICOPTER MODS (AA0252)										
Engine Filtration System	34.3	8.5	0.2	0.3	0.2	0.3				43.8
Engine Upgrade to T55-GA-714A Configuration	2493.6	46.6	14.4	31.1	28.3	22.4	13.6	29.7	26.9	2706.6
CH-47F	1477.2	1036.6	511.3	626.6	616.5	850.5	1210.4	686.9	4116.5	11132.5
Low Maintenance Rotor Hub	35.9									35.9
Engine Fire Extinguisher (Halon Replacement)	9.8	8.2	8.3	8.4	9.3					44.0
AVCATT		5.0	4.7	1.2					0.7	11.6
Maintenance Training Devices (MTD)	4.3	3.6	5.3	8.3	9.9	7.0	6.4	7.1	0.7	52.6
Transformation Sets, Kits and Outfits	30.6	4.9	7.7	10.3	12.1	13.7	12.7	8.6		100.6
Aircraft Component Parts-Marking		1.3	8.8	7.4	3.5					21.0
Ballistic Protection System (BPS)			4.5	2.7	2.8	2.8	2.8	2.2		17.8
Cargo Handling Floor System				24.9	9.3	9.2	24.7	26.6		94.7
M240 Window/Door Gun Mount		9.3	4.5	5.9	5.1	5.8	5.9	6.4	1.4	44.3
CH-47 MISC Mods $5M or Less	1.5	6.1	10.1	10.4	5.8	5.6	2.5			42.0
Total	**4087.2**	**1130.1**	**579.8**	**737.5**	**702.8**	**917.3**	**1279.0**	**767.5**	**4146.2**	**14347.4**
UTILITY/CARGO AIRPLANE MODS (AA0270)										
Avionics System Cockpit Upgrade	107.8	9.9	17.2	15.0	18.7	10.5	10.3	10.5		199.9

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
Total	**107.8**	**9.9**	**17.2**	**15.0**	**18.7**	**10.5**	**10.3**	**10.5**		**199.9**
UH-60 BLACK HAWK MODS (AA0492)										
Crashworthy External Fuel System (CEFS)	98.7	22.8	13.0	11.0	11.0	11.0	12.0	12.5		192.0
HH-60L Medical Equip Package (MEP)	78.3									78.3
Combat Search and Rescue (CSAR)	7.1									7.1
Adv Hel Transmission Lubricant (AHTL)	3.5									3.5
Brigade Sets	24.5	10.8								35.3
FLIR/Ext. Mount (AN/AAQ-22)	4.0	2.6								6.6
Health Usage Monitoring System (HUMS)	21.2	9.8								31.0
Internal Extended Range Fuel System (Internal 200)		2.7								2.7
Engine Digital Electronic Control		1.0								1.0
UH-60A to UH-60L Conversion		8.3								8.3
Total	**237.3**	**58.0**	**13.0**	**11.0**	**11.0**	**11.0**	**12.0**	**12.5**		**365.8**
KIOWA WARRIOR (AZ2200)										
Safety Enhancement Program (SEP)	309.8	5.7	4.4	0.6						320.5
Safety Enhancement Program - Weight Reduction	17.1	36.3	16.2	12.9	2.9	1.6				87.0
Program Support and Other	2.0	1.5	0.2	0.3	0.5	0.8	1.3	1.9	13.2	21.7
Total	**328.9**	**43.5**	**20.8**	**13.8**	**3.4**	**2.4**	**1.3**	**1.9**	**13.2**	**429.2**
AIRBORNE AVIONICS (AA0700)										
DGNS (AN/ASN-128B) P3I	47.5	11.4	18.7	22.5	20.7	11.1	17.7	15.2		164.8
Aviation Mission Planning System (AMPS)	160.6	17.0	19.1	16.6	18.7	17.1	22.3	23.2		294.6
Embedded GPS Inertial Navigation System (EGI) P3I	21.6	3.7	2.5	3.4	11.3	10.5	10.1	8.2		71.3
Improved Data Modem (IDM)	321.0	50.9	61.8	54.1	65.6	73.5	107.6	91.5		826.0
Aviation Tactical Communication Systems	51.4	57.8	62.5	64.9	98.8	85.4	89.8	103.2		613.8
Joint Precision Approach and Landing Sys (JPALS)					29.2	74.7	111.6	76.9		292.4
Mil Flight Operation Quality Assurance (MFOQA)		15.0	15.0	15.0	15.0	15.0				75.0
Total	**602.1**	**155.8**	**179.6**	**176.5**	**259.3**	**287.3**	**359.1**	**318.2**		**2337.9**
GATM - Fixed Wing Aircraft (AA0703)										
Global Air Traffic Management - FW	110.3	8.1	9.6	8.6	13.6	13.6	14.0	14.0		191.8

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2006 & Prior	2007	2008	2009	2010	2011	2012	2013	To Complete	Total Program
Total	**110.3**	**8.1**	**9.6**	**8.6**	**13.6**	**13.6**	**14.0**	**14.0**		**191.8**
Grand Total	**7513.0**	**2915.8**	**1733.1**	**1789.7**	**1512.4**	**1746.4**	**2353.2**	**1828.7**	**9892.2**	**31284.4**

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty			2	4	7	8	11	7	7		46
Gross Cost		4.9	71.9	157.0	258.6	303.8	427.7	303.7	307.4		1835.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1		4.9	71.9	157.0	258.6	303.8	427.7	303.7	307.4		1835.1
Initial Spares											
Total Proc Cost		4.9	71.9	157.0	258.6	303.8	427.7	303.7	307.4		1835.1
Flyaway U/C											
Weapon System Proc U/C			35.9	39.3	36.9	38.0	38.9	43.4	43.9		276.3

Description:
The Joint Cargo Aircraft (JCA) 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-23s, 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 JCA 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 JCA will bypass unsecured lines of communication and deliver routine sustainment items directly to forward supply bases. The JCA 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 JCA, with its extended range and speed, will meet time sensitive mission critical needs of the Future Force. The JCA will easily cover these distances and free the rotary-wing fleet for their primary tactical missions. The JCA will provide a multi-mission, multi-functional platform for the commanders use in accomplishing the mission.

Justification:
FY08 procures four critically needed Joint Cargo Aircraft. The Joint Cargo Aircraft will meet time sensitive mission critical needs of the warfighter.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Fixed Wing Cargo Aircraft													
Source Selection Evaluation Board (SSEB)		2166			1600								
Hardware					64794	2	32397	144530	4	36133	245838	7	35120
Engineering Support					360			1050			1072		
Support Equipment								2544			2598		
Contractor Logisitics Support								3700			3785		
Program Office Management		2694			5110			5219			5329		
Total:		**4860**			**71864**			**157043**			**258622**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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 $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2007	TBS TBS	C/FFP/REQ	Redstone Arsenal, AL	Jul 07	Jul 08	2	32397	YES		MAR 06
FY 2008	TBS TBS	C/FFP/REQ	Redstone Arsenal, AL	Jan 08	Dec 09	4	36133	YES		MAR 06
FY 2009	TBS TBS	C/FFP/REQ	Redstone Arsenal, AL	Jan 09	Dec 10	7	35120	YES		MAR 06

REMARKS: The initial JCA 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 interim contractor logistics support. 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 15.3, Source Selection. The Source Selection Tradeoff Process will be utilized for the JCA.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

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	2	0	2										A												1			1
	1	FY 08	A	4	0	4																A									4
	1	FY 09	A	7	0	7																									7
Total				13		13																						1			12
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	TBS, TBS	1	11	11		1	Initial	0	10	23	33
							Reorder	0	4	23	27
							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 first aircraft and (15 months) for second aircraft to support government test requirements. Production lead time for remainder of aircraft to be procured is 23 months.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

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	2	1	1	1																						0
	1	FY 08	A	4	0	4															4								0
	1	FY 09	A	7	0	7				A																			7
Total				13	1	12	1														4								7
							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, TBS	1	11	11	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	10	23	33
	Reorder	0	4	23	27
	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 first aircraft and (15 months) for second aircraft to support government test requirements. Production lead time for remainder of aircraft to be procured is 23 months.

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11												Fiscal Year 12											Later
										Calendar Year 11												Calendar Year 12									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware																														
	1	FY 07	A	2	2																									0
	1	FY 08	A	4	4																									0
	1	FY 09	A	7	0	7			7																					0
Total				13	6	7			7																					
							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
1	TBS, TBS	1	11	11		1	Initial	0	10	23	33
							Reorder	0	4	23	27
							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 first aircraft and (15 months) for second aircraft to support government test requirements. Production lead time for remainder of aircraft to be procured is 23 months.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty			12	37	64	80	74	64	66	115	512
Gross Cost			101.4	410.6	549.8	646.6	606.6	537.7	529.6	812.3	4194.6
Less PY Adv Proc					57.6	73.6	69.5	61.4	64.7	72.2	399.0
Plus CY Adv Proc				57.6	73.6	69.5	61.4	64.7	72.2	44.1	443.1
Net Proc P1			101.4	468.3	565.8	642.6	598.5	541.0	537.0	784.2	4238.7
Initial Spares											
Total Proc Cost			101.4	468.3	565.8	642.6	598.5	541.0	537.0	784.2	4238.7
Flyaway U/C											
Weapon System Proc U/C			8.5	12.7	8.8	8.0	8.1	8.5	8.1	6.8	69.5

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:

FY08 procures aircraft, training devices/services, support equipment, interim contractor logistic support and initial spares as well as long lead hardware and tooling to support full rate production in FY09.

Funding excludes cost of Common Sensor in FY09 and beyond. Sensor execution and funding has been transferred to the Common Sensor Program.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Cost													
Contract Flyaway					75670	12	6306	216493	37	5851	328172	64	5128
Government Flyaway					11294			34422			77461		
Total Flyaway					**86964**			**250915**			**405633**		
Armament / Mission Kits					3294			10372			18318		
Training Devices / Services					2997			72853			63287		
Support Equipment					5465			35868			12136		
Other Support					2689			40610			50471		
Gross P-1 End Item Cost					**101409**			**410618**			**549845**		
Less: Prior Year Adv Proc											57641		
Net P-1 Full Funding Cost					**101409**			**410618**			**492204**		
Plus: P-1 CY Adv Proc								57641			73572		
Total:					**101409**			**468259**			**565776**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Contract Flyaway										
FY 2007 LRIP 1	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Jun 07	Jun 08	12	6306	No		DEC 04
FY 2008 LRIP 2A	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Dec 07	Dec 08	37	5851	No		DEC 04
FY 2009 LRIP 2B	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Dec 08	Dec 09	12	4552	No		MAR 08
FY 2009 FRP 1	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Mar 09	Mar 10	52	4352	No		MAR 08

REMARKS: FY 2009 Procurement will be two contract actions consisting of LRIP Lot 2B for 12 aircraft and Full Rate Production Lot 1 for 52 aircraft.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date:
February 2007

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 Procurement																														
	1	FY 07 LT 1	A	12	0	12									A												1	1	2	2	6
	2	FY 08 LT2A	A	37	0	37															A										37
	3	FY 09 LT2B	A	12	0	12																									12
	4	FY 09 FRP1	A	52	0	52																									52
Total				113		113																					1	1	2	2	107
							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	Bell Helicopter Textron, Inc, Fort Worth, TX	1	2	2	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	4	
3	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	6	
4	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	10	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	9	12	21
	Reorder	0	1	12	13
2	Initial	0	3	12	15
	Reorder	0	1	12	13
3	Initial	6	3	12	15
	Reorder	0	1	12	13
4	Initial	9	6	12	18
	Reorder	0	1	12	13
	Initial				
	Reorder				

REMARKS

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date: February 2007

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 Procurement																														
	1	FY 07 LT 1	A	12	6	6	2	2	2																					0
	2	FY 08 LT2A	A	37	0	37			2	4	4	4	4	4	2	2	2	3	3	3											0
	3	FY 09 LT2B	A	12	0	12			A												4	4	4								0
	4	FY 09 FRP1	A	52	0	52						A												5	5	6	6	6	6	6	12
Total				113	6	107	2	2	4	4	4	4	4	4	2	2	2	3	3	3	4	4	4	5	5	6	6	6	6	6	12
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+
1	Bell Helicopter Textron, Inc, Fort Worth, TX	1	2	2	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	4	
3	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	6	
4	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	10	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	9	12	21
	Reorder	0	1	12	13
2	Initial	0	3	12	15
	Reorder	0	1	12	13
3	Initial	6	3	12	15
	Reorder	0	1	12	13
4	Initial	9	6	12	18
	Reorder	0	1	12	13
	Initial				
	Reorder				

REMARKS

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date: February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11												Fiscal Year 12										Later
										Calendar Year 11												Calendar Year 12									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Aircraft Procurement																														
	1	FY 07 LT 1	A	12	12																									0
	2	FY 08 LT2A	A	37	37																									0
	3	FY 09 LT2B	A	12	12																									0
	4	FY 09 FRP1	A	52	40	12	6	6																						0
Total				113	101	12	6	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	Bell Helicopter Textron, Inc, Fort Worth, TX	1	2	2	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	2	2	4	
3	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	6	
4	Bell Helicopter Textron, Inc, Fort Worth, TX	4	4	10	

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	9	12	21
	Reorder	0	1	12	13
2	Initial	0	3	12	15
	Reorder	0	1	12	13
3	Initial	6	3	12	15
	Reorder	0	1	12	13
4	Initial	9	6	12	18
	Reorder	0	1	12	13
	Initial				
	Reorder				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty		16	26	44	42	28	23	46	43	54	322
Gross Cost	2.0	88.7	166.5	230.5	226.3	161.1	135.2	254.4	253.1	361.0	1878.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	2.0	88.7	166.5	230.5	226.3	161.1	135.2	254.4	253.1	361.0	1878.8
Initial Spares											
Total Proc Cost	2.0	88.7	166.5	230.5	226.3	161.1	135.2	254.4	253.1	361.0	1878.8
Flyaway U/C											
Weapon System Proc U/C		5.5	6.4	5.2	5.4	5.8	5.9	5.5	5.9	6.7	52.3

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

Justification:
FY08 procures 44 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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Procurement Hardware Costs													
Airframes/Includes non-recurring		79489	16	4968	126263	26	4856	215768	44	4904	209963	42	4999
B Kits (MEDEVAC & Hoist)		1450	8	181	3190	17	188	194	1	194	801	4	200
Subtotal Hardware Cost		**80939**			**129453**			**215962**			**210764**		
Flyaway Support Costs													
System Engineering & Program Management		6469			4782			5581			5592		
System Test & Evaluation		530			3441								
Engineering Services					1320			1632			931		
Subtotal Flyaway Support Costs		**6999**			**9543**			**7213**			**6523**		
Total Flyaway		**87938**			**138996**			**223175**			**217287**		
Other Weapon System Cost													
Procedural Trainers					4660	1	4660	1366	1	1366			
Fielding		780			4749			5950			8983		
Other Weapon System Requirements					18100								
Subtotal Other Weapon System Cost		**780**			**27509**			**7316**			**8983**		
Total Procurement Cost		**88718**			**166505**			**230491**			**226270**		
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:		**88718**			**166505**			**230491**			**226270**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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 $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/Includes non-recurring										
FY 2006	EADS-NA Columbus, MS	FFP	AMCOM	Jun 06	Nov 06	16	4968	No		
FY 2007	EADS-NA Columbus, MS	FFP	AMCOM	Oct 06	Oct 07	26	4856	No		
FY 2008	EADS-NA Columbus, MS	FFP	AMCOM	Nov 07	Oct 08	44	4904	No		
FY 2009	EADS-NA Columbus, MS	FFP	AMCOM	Nov 08	Oct 09	42	4999	No		

REMARKS:

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

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	
Airframes/Includes non-recurring																														
	1	FY 06	A	16	0	16									A					1	1	1	1	1	1	2	2	2	2	2	0
	1	FY 07	A	26	0	26													A												26
	1	FY 08	A	44	0	44																									44
	1	FY 09	A	42	0	42																									42
Total				128		128														1	1	1	1	1	1	2	2	2	2	2	112
							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	EADS-NA, Columbus, MS	16	50	60		1	Initial	0	9	5	14	
							Reorder	0	2	12	14	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

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	
Airframes/Includes non-recurring																														
	1	FY 06	A	16	16																									0
	1	FY 07	A	26	0	26	2	2	2	2	2	2	2	2	2	2	3	3												0
	1	FY 08	A	44	0	44		A											4	4	4	4	4	4	4	4	3	3	3	3	0
	1	FY 09	A	42	0	42														A											42
Total				128	16	112	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	4	4	3	3	3	3	42
							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	EADS-NA, Columbus, MS	16	50	60		1	Initial	0	9	5	14	
							Reorder	0	2	12	14	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11												Later
										Calendar Year 10												Calendar Year 11										
							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/Includes non-recurring																															
	1	FY 06	A	16	16																										0
	1	FY 07	A	26	26																										0
	1	FY 08	A	44	44																										0
	1	FY 09	A	42	0	42	3	3	3	3	3	3	4	4	4	4	4	4													0
Total				128	86	42	3	3	3	3	3	3	4	4	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+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	EADS-NA, Columbus, MS	16	50	60		1	Initial	0	9	5	14	
							Reorder	0	2	12	14	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1637	49	59	42	64	65	46	60	63	806	2891
Gross Cost	9853.7	644.4	973.6	771.7	1028.8	1091.9	871.9	1096.0	1251.2	15748.1	33331.4
Less PY Adv Proc	2485.7	50.2	78.0	183.0	117.6	121.2	88.4	136.5	173.9	2013.5	5448.0
Plus CY Adv Proc	2535.9	78.0	185.1	116.7	120.5	87.9	136.5	174.3	151.0	1862.1	5448.0
Net Proc P1	9903.9	672.2	1080.7	705.4	1031.7	1058.6	920.0	1133.8	1228.3	15596.7	33331.4
Initial Spares	421.3										421.3
Total Proc Cost	10325.2	672.2	1080.7	705.4	1031.7	1058.6	920.0	1133.8	1228.3	15596.7	33752.7
Flyaway U/C											
Weapon System Proc U/C	60.4	13.7	18.3	16.8	16.1	16.3	20.0	18.9	19.5	19.4	219.4

Description:
FY08 procures 42 aircraft, 39 UH-60M baseline aircraft and three UH-60M Upgrade aircraft.

FY07 includes the following Congressional plus up ($343.4 million): $19.2 million for HH-60M for Army Reserve (1 aircraft), $4.1 million for UH-60A to L Conversion, $225.0 million for Black Hawk Battle Losses (15 aircraft) and $95.1 million for Black Hawks for the Army National Guard (5 aircraft).

Supplemental Funding: FY06 Title IX $30.0M, and FY07 Title IX $320.1M.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature	
Aircraft Procurement, Army / 1 / Aircraft	UH-60 BLACK HAWK (MYP) (A05002)	
Program Elements for Code B Items:	Code:	Other Related Program Elements: 0203744A/Project 504

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1634	49	59	42	64	65	46	60	63	806	2888
Gross Cost	9814.2	644.4	973.6	771.7	1028.8	1091.9	871.9	1096.0	1251.2	15748.1	33291.9
Less PY Adv Proc	2485.7	50.2	78.0	183.0	117.6	121.2	88.4	136.5	173.9	2013.5	5448.0
Plus CY Adv Proc	2535.9	78.0	185.1	116.7	120.5	87.9	136.5	174.3	151.0	1862.1	5448.0
Net Proc P1	9864.4	672.2	1080.7	705.4	1031.7	1058.6	920.0	1133.8	1228.3	15596.7	33291.9
Initial Spares	421.3										421.3
Total Proc Cost	10285.7	672.2	1080.7	705.4	1031.7	1058.6	920.0	1133.8	1228.3	15596.7	33713.2
Flyaway U/C											
Weapon System Proc U/C	11.8	13.7	18.3	16.8	16.1	16.3	20.0	18.9	19.5	19.4	170.8

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:
FY08 procures 42 aircraft, 39 UH-60M baseline aircraft and three UH-60M Upgrade aircraft.

Supplemental Funding: FY06 Title IX $30.0M, and FY07 Title IX $320.1M.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Costs													
Airframes/CFE		483526	49	9868	677103	59	11476	486661	42	11587	725811	64	11341
Engines/Accessories		58256	98	594	74597	118	632	54488	84	649	84993	128	664
Avionics (GFE)		36742			40113			30263			30944		
Other GFE		7624			30671			24631			24176		
Armament													
ECO (All FLYAWAY Components)		10716			14938			18386			18542		
Other Costs (Mission Equipment)		2634			41978			42337			44459		
Tooling Equipment					6115			16769			18303		
Other Nonrecurring Cost		2500			847			616			958		
Total FLYAWAY		**601998**			**886362**			**674151**			**948186**		
Support Cost													
Airframe PGSE		3667											
Engine PGSE													
Peculiar Training Equipment					37868			42833			33016		
Publications/Tech Data		1858			1070			1159			1183		
PM Administration		24811			17942			22881			24750		
Fielding		12092			30379			30686			21713		
Subtotal Support Cost		**42428**			**87259**			**97559**			**80662**		
Gross P-1 End Item Cost		**644426**			**973621**			**771710**			**1028848**		
Less: Prior Year Adv Proc		50201			77991			183009			117584		
Net P-1 Full Funding Cost		**-50201**			**-77991**			**-183009**			**-117584**		
Plus: P-1 CY Adv Proc		77991			185098			116745			120461		
Initial Spares													
Total:		**672216**			**1080728**			**705446**			**1031725**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 06	Sep 06	24	9868	Yes		Sep-00
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 06	Jan 07	17	9868	Yes		Oct-04
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Mar 06	Apr 07	8	9868	Yes		Sep-00
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	May 07	Sep 07	38	11476	Yes		May-05
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	May 07	Nov 08	3	11476	Yes		May-05
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Nov 06	May 08	18	11476	Yes		Oct-04
FY 2008	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 08	Jul 08	42	11587	Yes		May-05
FY 2009	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 09	Jul 09	64	11341	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 2007

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	24	0	24																A							2	22
	1	FY 06	A	8	0	8																		A						8
	1	FY 06	A	17	0	17																A								17
	1	FY 07	A	38	0	38																								38
	1	FY 07	A	3	0	3																								3
	1	FY 07	A	18	0	18																								18
	1	FY 08	A	42	0	42																								42
	1	FY 09	A	64	0	64																								64
	1	FY 06	NA	26	0	26																						3	3	20
	1	FY 07	NA	18	0	18																								18
	1	FY 08	NA	18	0	18																								18
	1	FY 09	NA	18	0	18																								18
Total				294		294																						3	5	286
							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

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 2007

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	24	2	22	2		7	1	2	2	3	2	1	1	1													0
	1	FY 06	A	8	0	8							1	1	1	1	1		1	1	1									0
	1	FY 06	A	17	0	17				2	2	3	3	3	4															0
	1	FY 07	A	38	0	38								A				2	3	4	4	4	4	6	5	3	3				0
	1	FY 07	A	18	0	18		A																		1		1		1	15
	1	FY 07	A	3	0	3								A																	3
	1	FY 08	A	42	0	42																A						3	3	3	33
	1	FY 09	A	64	0	64																									64
	1	FY 06	NA	26	6	20	2	2	2	2	2	2	3	2	3																0
	1	FY 07	NA	18	0	18										1	2	1	1	2	2	1	2	1	2	2	1				0
	1	FY 08	NA	18	0	18																						1	2	1	14
	1	FY 09	NA	18	0	18																									18
Total				294	8	286	4	2	9	5	6	7	10	8	9	3	4	3	5	7	7	5	6	7	7	6	4	5	5	5	147
							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					

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

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	24	24																									0
	1	FY 06	A	8	8																									0
	1	FY 06	A	17	17																									0
	1	FY 07	A	38	38																									0
	1	FY 07	A	3	0	3		1	2																					0
	1	FY 07	A	18	3	15	2	2	2	2	3	3	1																	0
	1	FY 08	A	42	9	33	3	3	2	4	3	2	5	6	5															0
	1	FY 09	A	64	0	64				A						5	5	5	5	5	4	6	6	6	6	5	6				0
	1	FY 06	NA	26	26																									0
	1	FY 07	NA	18	18																									0
	1	FY 08	NA	18	4	14	2	2	1	1	2	1	2	2	1															0
	1	FY 09	NA	18	0	18										1	2	1	2	2	1	1	2	1	2	2	1				0
Total				294	147	147	7	8	7	7	8	6	8	8	6	6	7	6	7	7	5	7	8	7	8	7	7				
							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 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost											
Less PY Adv Proc											
Plus CY Adv Proc	2535.9	78.0	185.1	116.7	120.5	87.9	136.5	174.3	151.0	1862.1	5448.0
Net Proc P1	2535.9	78.0	185.1	116.7	120.5	87.9	136.5	174.3	151.0	1862.1	5448.0
Initial Spares											
Total Proc Cost	2535.9	78.0	185.1	116.7	120.5	87.9	136.5	174.3	151.0	1862.1	5448.0
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 Improved Hover Infrared Suppressor Subsystem (IHIRSS) as well as numerous communication, navigation, and Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM).

Justification:
FY08 procures long lead and Economic Order Quantities (EOQ) items such as T700-GE-701D engines, IHIRSS and avionics components for the FY07-FY11 multiyear contract.

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

First System Award Date:

First System Completion Date:

Date: February 2007

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 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
End Item Quantity			1634.0	49.0	59.0	42.0	64.0	65.0	46.0	60.0	63.0	806.0	2888.0
CFE Airframe	18	6	1556.0	37.0	112.3	39.8	36.1	22.1	41.1	72.0	42.2	496.9	2455.5
Engines	13	3	705.2	31.4	40.7	51.4	56.4	44.4	66.0	70.9	75.9	973.3	2115.6
Avionics	0	3	127.9	6.5	29.4	22.1	24.4	18.8	25.9	27.7	29.0	340.9	652.6
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	34.2	1.8	2.7	3.4	3.6	2.6	3.5	3.7	4.0	50.9	110.4
Elastomeric Bearings	10	3	1.5										1.5
Miscellaneous	0	3	42.2										42.2
Total Advance Procurement			**2535.9**	**78.0**	**185.1**	**116.7**	**120.5**	**87.9**	**136.5**	**174.3**	**151.1**	**1862.0**	**5448.0**

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

Date: February 2007

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	2008 Qty	2008 Contract Forecast Date	2008 Total Cost Request	2009 Qty	2009 Contract Forecast Date	2009 Total Cost Request
CFE Airframe	18	1		42.0		39.8	64.0		36.1
Engines	13	2	615.0	84.0		51.4	128.0		56.4
Avionics				42.0		22.1	64.0		24.4
Hover Infrared Suppressor	14	1	103.0	42.0		3.4	64.0		3.6
Total Advance Procurement						**116.7**			**120.5**

Airframes currently being procured on an FY07-11 multiyear contract were authorized by language contained in the FY06 Defense Appropriation Bill. 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.

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

Date: February 2007

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 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
Proposal w/o AP											
Then Year Cost		14	248	744	814	974	1006	752	263	165	4980
Constant Year Cost		14	242	712	763	894	905	662	227	138	4557
Present Value		14	231	660	686	780	765	543	181	104	3964
AP Proposal											
Then Year Cost		14	237	707	775	928	957	713	250	157	4738
Constant Year Cost		14	232	677	726	853	861	627	215	131	4336
Present Value		14	222	628	653	743	728	515	171	99	3773
AP Savings (Difference)											
Then Year Cost			-11	-37	-39	-46	-49	-39	-13	-8	-242
Constant Year Cost			-10	-35	-37	-41	-44	-35	-12	-7	-221
Present Value			-9	-32	-33	-37	-37	-28	-10	-5	-191

Costs shown reflect projected outlays over the period of the projected FY2007-FY2011 airframe multiyear contract. Costs include advance procurement from FY2006 for the multiyear contract and exclude advance procurement in FY2011 for a projected FY2012-FY2016 follow-on contract. Constant dollars shown are FY06.

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

Date: February 2007

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

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

($ in Millions)

		2006					2007					2008		2009	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity					49.0		38			59.0					
CFE Airframe	18	45	Dec 2005	Jan 2006	37.0	37.4	113	May 2007		112.3		42		64	
Engines	13	45	Dec 2005	Jan 2006	31.4	31.4	41	Dec 2006		40.7		84		128	
Avionics		45	Dec 2005	Jan 2006	6.5	6.1	29	Dec 2006		29.4		42		64	
Auxiliary Power Unit	6			Dec 2005	1.3	1.3									
Armored Crew Seat	6														
Hover Infrared Suppressor	14	45	Dec 2005	Dec 2005	1.8	1.8	3	Dec 2006		2.7		42		64	
Elastomeric Bearings	10														
Miscellaneous															
Total Advance Procurement					**78.0**	**78.0**				**185.1**					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	CH-47 HELICOPTER (A05008)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				6	16	7	7	5	5		46
Gross Cost				157.9	462.0	217.3	220.0	137.1	169.2		1363.6
Less PY Adv Proc					33.0	18.0	18.3	11.7	14.4		95.4
Plus CY Adv Proc				33.0	18.0	18.3	11.7	14.4			95.4
Net Proc P1				190.9	447.0	217.7	213.4	139.8	154.9		1363.6
Initial Spares											
Total Proc Cost				190.9	447.0	217.7	213.4	139.8	154.9		1363.6
Flyaway U/C											
Weapon System Proc U/C				31.8	27.9	31.1	30.5	28.0	31.0		180.3

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 CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. 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. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital AFCS and an Extended Range Fuel System II for self-deployment missions. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2025 timeframe. This program is funded to meet the Army Aviation Transformation Plans full requirement for Chinook aircraft. (Prior to FY08, "New Build" aircraft are funded on the CH-47 Cargo Helicopter Mod budget line; 3 ea and 6 ea for FY's 06 and 07, respectively.)

Justification:
FY 2008 procures 6 new build aircraft to equip new Chinook units forming under the Armys Aviation Transformation Plan.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: CH-47 HELICOPTER (A05008)	Weapon System Type:	Date: February 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
AIRCRAFT Flyaway Costs													
Airframes/CFE								152568	6	25428	357681	16	22355
Engine/Accessories								10839	12	903	29514	32	922
CFE Avionics								6496			17570		
GFE								6999			19058		
ECO (Flyaway)								2907			7854		
Other Costs								2105			2426		
Support Costs													
PSE								1135			716		
Peculiar Training Equipment								192			364		
Publications/Tech Data								221			420		
ECO (Support Items)								244			154		
Other Costs								6405			9101		
Initial Spares													
Initial Spares								779			2122		
Subtotal Support Costs								**190890**			**446980**		
Total:								**190890**			**446980**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 1/ Aircraft		CH-47 HELICOPTER (A05008)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2008	The Boeing Company Ridley Park, PA	SS/FFP	AMCOM	Mar 08	Feb 11	6	25428	YES		Apr-07
FY 2009	The Boeing Company Ridley Park, PA	SS/FFP	AMCOM	Jan 09	Dec 11	16	22355			

REMARKS:

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
CH-47 HELICOPTER (A05008)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11												Fiscal Year 12										Later
										Calendar Year 11												Calendar Year 12									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																													
	1	FY 08	A	6	0	6					3	3																	0
	1	FY 09	A	16	0	16															3	3	3	3	3	1					0
Total				22		22					3	3									3	3	3	3	3	1					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	The Boeing Company, Ridley Park, PA	12	24	54		1	Initial	5	5	35	40	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 1 / Aircraft	CH-47 HELICOPTER (A05008)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost											
Less PY Adv Proc											
Plus CY Adv Proc				33.0	18.0	18.3	11.7	14.4			95.4
Net Proc P1				33.0	18.0	18.3	11.7	14.4			95.4
Initial Spares											
Total Proc Cost				33.0	18.0	18.3	11.7	14.4			95.4
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. The CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. Key product improvements integrate the CH-47F Common Avionics Architecture System (CAAS) digital cockpit which will provide future growth potential to meet the Net-Ready Key Performance Parameters (KPPs) and also includes a digital data bus that permits installation of enhanced communication and navigation equipment for improved situational awareness, mission performance, and survivability. The new digital cockpit incorporates all new airframe components and modifies the aircraft to reduce vibration. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other product improvements reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These improvements significantly enhance the Chinook's strategic deployment capability.

Justification:
FY 2008 funding procures long lead time parts 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 2007

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

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

($ in Millions)

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
End Item Quantity													
Airframes	13	14				19.8	10.8	11.0	7.0	8.7			57.3
Avionics	15	16				13.2	7.2	7.3	4.7	5.7			38.1
Total Advance Procurement			**0.0**	**0.0**	**0.0**	**33.0**	**18.0**	**18.3**	**11.7**	**14.4**	**0.0**	**0.0**	**95.4**

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

Date: February 2007

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

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

($ in Millions)

	PLT (mos)	Quantity Per Assembly	Unit Cost	2008 Qty	2008 Contract Forecast Date	2008 Total Cost Request	2009 Qty	2009 Contract Forecast Date	2009 Total Cost Request
Airframes	13	1	1.0	6.0	Mar 08	19.8	16.0	Jan 09	10.8
Avionics	15	1	1.0	6.0	Mar 08	13.2	16.0	Jan 09	7.2
Total Advance Procurement						**33.0**			**18.0**

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

Date: February 2007

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

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

($ in Millions)

	Pr Yrs	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
Proposal w/o AP											
Then Year Cost				149	402	178	181	131			1042
Constant Year Cost				145	392	174	176	127			1014
Present Value				144	380	165	164	116			970
AP Proposal											
Then Year Cost				143	387	172	174	126			1002
Constant Year Cost				140	377	167	170	123			976
Present Value				138	366	159	158	112			933
AP Savings (Difference)											
Then Year Cost				-6	-15	-7	-7	-5			-40
Constant Year Cost				-6	-15	-6	-6	-5			-38
Present Value				-5	-14	-6	-6	-4			-36

Constant Year Dollars are fiscal year 2005.

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

Date: February 2007

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

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

($ in Millions)

		2006					2007					2008		2009	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity															
Airframes	13											6	Mar 08	16	Jan 09
Avionics	15											6	Mar 08	16	Jan 09
Total Advance Procurement															

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	183				1	1		2	2		189
Gross Cost	189.7				2.4	2.4		4.6	4.6		203.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	189.7				2.4	2.4		4.6	4.6		203.7
Initial Spares											
Total Proc Cost	189.7				2.4	2.4		4.6	4.6		203.7
Flyaway U/C											
Weapon System Proc U/C	1.0				1.6	1.7		1.7	1.8		7.8

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.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: HELICOPTER NEW TRAINING (A06500)	Weapon System Type:	Date: February 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
AIRCRAFT											1628	1	1628.234
SUPPORT COSTS											772		
Total:											**2400**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 2 / Modification of aircraft	GUARDRAIL MODS (TIARA) (AZ2000)

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	753.7	18.7	57.8	149.1	120.0	30.0	31.0	46.5	47.1		1253.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	753.7	18.7	57.8	149.1	120.0	30.0	31.0	46.5	47.1		1253.9
Initial Spares											
Total Proc Cost	753.7	18.7	57.8	149.1	120.0	30.0	31.0	46.5	47.1		1253.9
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 Guardrail Ground Base (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 were provided to enhance 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 leverages National and Services Military Intelligence Program (MIP) investments 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). GR/CS contributes directly to the success of Army Modernization by serving as an operational platform for verification of new or improved technologies.

Justification:

The FY08 Budget will provide the following capabilities for GR/CS: An Enhanced precision geo-location subsystem "Communication Hight Accuracy Location System-Compact (CHALS-C)", a greatly improved COMINT Infrastructure and Core COMINT Subsystem "Enhanced Situational Awareness (ESA)"; improved "Guardrail Ground Base Subsystem" hardware and software which is migrating to Distributed Common Ground System - Army (DCGS-A); increased capability against modern signals "High Band COMINT (HBC)" subsystem; and increased capability against low probability of intercept (LPI) "Special Signals" subsystem. Provides critical upgrade capability to collect insurgent threats in support of current OIF/OEF operations.

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

Supplemental Funding: FY06 Title IX $18.7M.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
GUARDRAIL Information Node (GRFN)											
1-01-111-1111		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		13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
Upward Frequency extension (UFX)											
1-05-111-1111		3.4	0.0	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		5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
Guardian Eagle System Upgrades											
1-03-333-3333		28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9
Comm High Accuracy Location Sys-Compact (CHALS-C											
1-06-111-2006		7.8	5.2	8.3	6.8	0.0	0.0	0.0	0.0	0.0	28.1
System 2 Stabilization											
1-06-222-2006		3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Enhance Situational Awareness (ESA) Subsystem											
1-06-333-2006		0.0	49.9	86.9	87.8	19.5	12.6	46.5	13.3	0.0	316.5
Guardrail Ground Base Sub-System											
1-07-111-2007		0.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	5.4
High Band Comint (HBC) Subsystem											
1-07-222-2007		0.0	0.0	44.8	25.5	0.0	0.0	0.0	19.4	0.0	89.7
Special Signals Subsystem											
1-07-333-2007		0.0	0.0	6.4	0.0	10.5	18.4	0.0	14.4	0.0	49.7

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Totals		75.5	57.8	149.1	120.1	30.0	31.0	46.5	47.1	0.0	557.1

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

2QFY07 1st Contract Awd
1QFY08 2nd Contract Awd
2QFY08 Flight Test
NOTE: Systems installation will occur as units become available between deployments.
1QFY09 3rd Contract Awd
2QFY10 Field (1st System)

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs											7				8						7
Outputs															7				8		

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs				7														29
Outputs				7				7										29

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring A-Kits																				
Prototype/Lab	5	4.0																	5	4.0
Non-recurring CHALS-C		3.8																		3.8
Recurring CHALS-C HW			9	4.5	11	5.8	9	4.8											29	15.1
Manuals/Training Doc						0.7														0.7
Test Support						0.5														0.5
Initial Spares			1	0.5	1	0.5	2	1.1											4	2.1
Fielding Support						0.6		0.7												1.3
PM Support/TDY				0.2		0.2		0.2												0.6
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		7.8		5.2		8.3		6.8		0.0		0.0		0.0		0.0		0.0		28.1

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

2QFY07 Award ESA Contract
4QFY08 Factory Acceptance Test
1QFY10 System Assessment Test
2QFY10 Field 1st ESA Upgrade

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs											7				8						7
Outputs															7				8		

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs				7														29
Outputs				7				7										29

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring				11.0				20.0												31.0
Recurring Engr A-Kit			3	5.5	7	12.7	10	17.6	7	7.0									27	42.8
Recurring Eng B-Kit			2	8.4	11	47.3	7	31.5					7	33.6					27	120.8
Spare B-Kit			1	4.2	1	4.4	1	4.4											3	13.0
Engr Models Refurbish			3	2.3															3	2.3
Aircraft Upgrade Cockpit				10.0		12.0		4.0												26.0
Sys Assessment/Test Supt										6.0		4.0		3.4		3.4				16.8
Training Supt										0.5		0.5		0.5		0.5				2.0
Fielding (CHALS/ESA/HBC)										3.1		5.1		4.0		4.0				16.2
PM Support				8.5		10.5		10.3		2.5		2.5		4.6		5.0				43.9
ESA Installations																				
FY 2010 Installation										0.4										0.4
FY 2011 Installation												0.5								0.5
FY 2012 Installation														0.4						0.4
FY 2013 Installation																0.4				0.4
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.4	0	0.5	0	0.4	0	0.4	0	0.0	0	1.7
Total Procurement Cost		0.0		49.9		86.9		87.8		19.5		12.6		46.5		13.3		0.0		316.5

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 Contract Award
1QFY10 System Assessment
2QFY10 Field 1st System
2QFY11 Field 2nd System
4QFY12 Field 3rd System
4QFY14 Field 4th System

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

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs											7				8						7
Outputs															7				8		

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs										7								29
Outputs				7							7							29

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Nonrecurring						14.9														14.9
Recurring					12	29.9	10	25.5							7	19.4			29	74.8
Initial Spare																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		44.8		25.5		0.0		0.0		0.0		19.4		0.0		89.7

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Special Signals Subsystem [MOD 14] 1-07-333-2007

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY08 Contract Award
1QFY10 System Assessment
2QFY11 Field 1st System
3QFY12 Field 2nd System
4QFY12 Field 3rd System
4QFY14 Field 4th System

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

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs															8					7	7
Outputs																			8		

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs								7										29
Outputs			7	7								7						29

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Special Signals Subsystem [MOD 14] 1-07-333-2007

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Nonrecurring						5.0														5.0
B-Kits					1	1.4			7	10.5	12	18.4			9	14.4			29	44.7
Spare																				
Data																				
Training Equipment																				
Support Equipment																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		6.4		0.0		10.5		18.4		0.0		14.4		0.0		49.7

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	86.6	6.0	37.8	52.3	23.5	16.7	17.6	2.7	2.8		246.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	86.6	6.0	37.8	52.3	23.5	16.7	17.6	2.7	2.8		246.0
Initial Spares											
Total Proc Cost	86.6	6.0	37.8	52.3	23.5	16.7	17.6	2.7	2.8		246.0
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:
FY08 continues the standardization and modernization of the ARL fleet. ARL has evolved into three different system configurations: ARL-M in CENTCOM (OIF), ARL-C and ARL-M in SOUTHCOM and ARL-Ms in Republic of Korea (ROK). The budget in FY08 continues 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 standardization. The ARL-Cs will be converted to ARL-Ms (a complete multi-function configuration conversion). This standardization will also address reducing the maintenance burden and operational support costs. 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 2007

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

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Radar											
0-00-05-2222	Operational	11.0	6.0	9.1	2.0	1.0	1.5	0.0	0.0	0.0	30.6
Imagery											
0-00-05-3333	Operational	6.5	2.8	11.0	5.0	3.8	7.1	2.7	2.8	0.0	41.7
Workstation Architecture											
1-08-11-0000	Operational	0.0	4.0	4.2	3.0	0.5	2.0	0.0	0.0	0.0	13.7
Safety Upgrades											
9-99-99-0000	Operational	11.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Comint Upgrades											
6-66-66-0000	Operational	25.2	6.6	6.3	5.9	4.9	4.0	0.0	0.0	0.0	52.9
System Interoperability											
0-00-08-8888	Operational	0.0	6.0	10.3	7.6	6.5	3.0	0.0	0.0	0.0	33.4
ARL-C to ARL-M Conversion											
0-00-07-7777	Operational	0.0	8.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
System Standardization											
8-88-88-0000	Operational	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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
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
Totals		63.6	37.8	52.3	23.5	16.7	17.6	2.7	2.8	0.0	217.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Award Contract	1QFY07	1QFY08	1QFY09
Complete S/W Modifications	3QFY07	3QFY08	3QFY09
Test Configuration/Modes	3QFY07	3QFY08	3QFY09
Field Assets	1QFY08	1QFY09	4QFY10

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		7
Outputs																		7

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

Contract Dates:	FY 2008 - 1QFY08	FY 2009 -	FY 2010 -
Delivery Dates:	FY 2008 - 1QFY09	FY 2009 -	FY 2010 -

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Prime Mission Equipment (PME)	3	1.5	1	0.9	5	4.5	1	0.9											10	7.8
PME, Nonrecurring		0.2		1.4																1.6
Installation Equipment		3.6																		3.6
Installation Equip, Nonrecurring		2.8																		2.8
Engineering Change Orders																				
Software		1.5		2.0		1.4		0.6		1.0		1.5								8.0
PMO Support		0.2		0.1		0.1														0.4
Spares				1.0		0.4														1.4
Test		0.3		0.1		0.2														0.6
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits	3	0.9																	3	0.9
FY 2007 Equip -- Kits			1	0.5															1	0.5
FY 2008 Equip -- Kits					5	2.5													5	2.5
FY 2009 Equip -- Kits							1	0.5											1	0.5
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	3	0.9	1	0.5	5	2.5	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	4.4
Total Procurement Cost		11.0		6.0		9.1		2.0		1.0		1.5		0.0		0.0		0.0		30.6

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	4QFY05	1QFY07	1QFY08	1QFY09
System Status Review	4QFY05	1QFY07	1QFY08	1QFY09
System Acceptance Test	1QFY06	3QFY07	3QFY08	3QFY09
System Fielding	2QFY06	4QFY07	4QFY08	4QFY09

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		16
Outputs																		16

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Equipment	6	0.6	3	2.0	5	3.3	3	2.0											17	7.9
Equipment, Nonrecurring		0.6																		0.6
Installation Kits		2.4																		2.4
Installation Kits, Nonrecurring		0.8																		0.8
Engineering Change Orders																				
Test		0.2																		0.2
Software				0.1		4.5		2.0		3.7		7.0		2.6		2.7				22.6
Support Equipment, Spares						2.0		0.3												2.3
AWR		0.5																		0.5
PMO				0.1		0.1		0.1		0.1		0.1		0.1		0.1				0.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	6	1.4																	6	1.4
FY 2006 -- Kits																				
FY 2007 Equip -- Kits			3	0.6															3	0.6
FY 2008 Equip -- Kits					5	1.1													5	1.1
FY 2009 Equip -- Kits							3	0.6											3	0.6
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	6	1.4	3	0.6	5	1.1	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	3.7
Total Procurement Cost		6.5		2.8		11.0		5.0		3.8		7.1		2.7		2.8		0.0		41.7

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Comint Upgrades [MOD 5] 6-66-66-0000

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs			1		1	1				1				1				1			
Outputs					1		1	1				1				1				1	

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Comint Upgrades [MOD 5] 6-66-66-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
COMINT B-Kits	3	3.3	1	2.0	1	2.0	1	2.0	1	2.0	1	2.0							8	13.3
Installation Kits, Nonrecurring		2.6																		2.6
Equipment		10.0																		10.0
Equipment, Nonrecurring		3.7																		3.7
Testing		1.1		0.5		0.5		0.5		0.5		0.5								3.6
Frequency Extension		2.2		2.0		2.7		2.3		1.3		0.4								10.9
Govt In-House/Program Mgt		1.1		0.1		0.1		0.1		0.1		0.1								1.6
Engineering Change Orders		0.5																		0.5
Support Equipment (Spares)		0.7																		0.7
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits			2	2.0	1	1.0													3	3.0
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits							1	1.0											1	1.0
FY 2010 Equip -- Kits									1	1.0									1	1.0
FY 2011 Equip -- Kits											1	1.0							1	1.0
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	2	2.0	1	1.0	1	1.0	1	1.0	1	1.0	0	0.0	0	0.0	0	0.0	6	6.0
Total Procurement Cost		25.2		6.6		6.3		5.9		4.9		4.0		0.0		0.0		0.0		52.9

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: System Interoperability [MOD 6] 0-00-08-8888

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

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		8
Outputs																		8

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): System Interoperability [MOD 6] 0-00-08-8888

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Spares																				
Data Links			4	6.0	2	3.0	2	3.0	2	3.0									10	15.0
Installation Kits					4	2.0	2	1.0	2	1.0									8	4.0
Software						1.3		1.4		0.3		3.0								6.0
Test						0.9		0.6		0.6										2.1
Program Management Office						0.1		0.1		0.1										0.3
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits					4	3.0													4	3.0
FY 2008 Equip -- Kits							2	1.5											2	1.5
FY 2009 Equip -- Kits									2	1.5									2	1.5
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	4	3.0	2	1.5	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	8	6.0
Total Procurement Cost		0.0		6.0		10.3		7.6		6.5		3.0		0.0		0.0		0.0		33.4

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: ARL-C to ARL-M Conversion [MOD 7] 0-00-07-7777

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

DESCRIPTION / JUSTIFICATION:

FY08 procures the conversion of one ARL-C into a full multi-function aircraft. FY09 will convert the second ARL-C to ARL-M. The conversion will consist of a Triport (three sensor positions) modification to allow for the installation of EO/IR, Digital Camera, or radar payloads (the radar payload will be purchased under the Radar modification); aircraft navigation modification; ASE modification; aircraft power modification; and COMINT antenna modifications. The current COMINT infrastructure will be replaced (COMINT payload will be purchased under COMINT upgrade modification). This modification will also provide an imagery capability (EO/IR and digital pan camera); upgrade the communications suite; and modify the Mission Analysts Workstations.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award	1QFY07 1QFY08
System Status Review	1QFY07 1QFY08
System Acceptance Test	3QFY08 3QFY09
System Fielding	1QFY09 3QFY10

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): ARL-C to ARL-M Conversion [MOD 7] 0-00-07-7777

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Sensors				2.4		3.0														5.4
Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Test																				
Support Equipment																				
Program Management																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits			1	6.0															1	6.0
FY 2008 Equip -- Kits					1	6.0													1	6.0
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	1	6.0	1	6.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	12.0
Total Procurement Cost		0.0		8.4		9.0		0.0		0.0		0.0		0.0		0.0		0.0		17.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	948.4	913.2	1434.6	689.6	695.3	476.8	453.2	627.7	653.2	5746.4	12638.4
Less PY Adv Proc			38.7	18.9	41.0	29.4	9.4	12.0	12.5	137.7	299.7
Plus CY Adv Proc		38.7	18.9	41.0	29.4	9.4	12.0	12.5	13.6	124.2	299.7
Net Proc P1	948.4	951.9	1414.8	711.7	683.7	456.9	455.7	628.3	654.2	5732.8	12638.4
Initial Spares	891.7	1.5	2.9	3.9							900.0
Total Proc Cost	1840.1	953.4	1417.7	715.6	683.7	456.9	455.7	628.3	654.2	5732.8	13538.4
Flyaway U/C											
Weapon System Proc U/C											

Description:

Program provides for an Apache Attack Helicopter fleet consisting of 96 AH-64A model and 634 AH-64D model Apache attack helicopters, all equipped with a single main rotor, twin engines, and a tandem cockpit. In addition, 13 Longbow War Replacement Aircraft (WRA)(replenishments for combat attrition) were added to the Longbow budget line in the FY 05 supplemental appropriation, 14 aircraft were added to this budget line in FY 06, and 18 aircraft in FY07. 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:

Modernization provides near term improvements to the Apache fleet, focusing on reliability and safety (R&S) upgrades and operational deficiencies. The Modernized TADS/PNVS (M-TADS/PNVS) program provides a second generation FLIR (SGF) sensor suite to the Apache. 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 120 AH-64A to the AH-64D configuration (AH-64 Apache Extended Block II Upgrade) via a single year contract, with options. The Apache Block III Modernization is an incremental integration of block modifications providing the capabilities for the Longbow Apache to transition to the Future Force (FF), to increase survivability, and reduce the logistics footprint. Block III satisfies the updated Longbow Apache Capability Development Document (CDD) mandates for modernization.

FY 2008 funds procure: Apache Sensors Life Extension and Upgrades, Miscellaneous mods, M-TADS/PNVS and associated 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, Apache Post Production Organic Support, and Aircraft Survivability Product Improvement (ASPI) modifications.

Supplemental Funding: FY06 Supp $345.0M, FY06 Title IX $74.1M, and FY07 Title IX $621.0M.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Apache Sensors Life Extension & Upgrades											
1-94-01-2005		121.9	5.4	9.4	10.6	8.6	8.8	9.0	9.2	0.0	182.9
AH-64A MISC Mods $5M or less (no P3a set)											
OSIP		713.6	5.7	5.4	11.6	8.0	6.4	9.6	6.6	0.0	766.9
Apache Transformation											
OSIP		34.6	2.7	4.1	4.9	0.0	0.0	4.0	0.0	0.0	50.3
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		309.7	204.7	98.9	126.4	0.0	0.0	0.0	0.0	0.0	739.7
701C Engines (no P3a set)											
OSIP		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)											
OSIP		26.4	23.3	7.4	39.0	10.0	0.0	0.0	0.0	0.0	106.1
AH-64 R&S & Recap											
OSIP		135.8	76.3	3.0	25.9	20.4	6.0	21.2	8.3	0.0	296.9
AH-64D Block III											
OSIP		0.0	0.0	0.0	11.1	162.1	429.4	563.1	615.3	5732.7	7513.7
Fire Control Radar (FCR)Obsolescence & Integration											
OSIP		4.9	4.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	12.7
AH-64 Training Devices											
OSIP		44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2
AH-64 Extended Block II Upgrade											
OSIP		49.0	470.4	508.0	430.9	218.1	0.0	0.0	0.0	0.0	1676.4
AH-64 Post Production Organic Support											
OSIP		1.1	1.3	2.1	23.3	29.7	0.0	0.0	0.0	0.0	57.5
AH-64D Longbow War Replacement Aircraft (WRA)											
0-00-00-0000		419.1	621.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1040.1
AH-64D Modernized Control Laws and Stick Shaker											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	5.1	21.4	14.8	0.1	41.4

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Aircraft Survivability Product Improvement (ASPI)											
000-000-0		0.0	0.0	69.6	0.0	0.0	0.0	0.0	0.0	0.0	69.6
Totals		1900.3	1414.8	711.7	683.7	456.9	455.7	628.3	654.2	5732.8	12638.4

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Operational, and logistical improvement.

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	513	6	6	9	9	9	9	9	9	6	6	6	9	9	9	9	9	9	9	9	9
Outputs	489	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	9	9	9	9	9	9	6	5										743
Outputs	9	9	9	9	10	10	9	9										743

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity	501		24		36		36		36		36		36		38				743	
T/P FFP/T&M/CFE/O&A		83.7		4.6		7.4		7.6		7.8		8.0		8.0		8.0				135.1
Equipment (GFE)		35.9				1.2		2.2												39.3
Other		2.3		0.8		0.8		0.8		0.8		0.8		1.0		1.2				8.5
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	458																		458	
FY 2006 -- Kits	31		12																43	
FY 2007 Equip -- Kits			24		12														36	
FY 2008 Equip -- Kits					24		12												36	
FY 2009 Equip -- Kits							24		12										36	
FY 2010 Equip -- Kits									24		12								36	
FY 2011 Equip -- Kits											24		12						36	
FY 2012 Equip -- Kits													24		12				36	
FY 2013 Equip -- Kits															26				26	
Total Installment	489	0.0	36	0.0	36	0.0	36	0.0	36	0.0	36	0.0	36	0.0	38	0.0	0	0.0	743	0.0
Total Procurement Cost		121.9		5.4		9.4		10.6		8.6		8.8		9.0		9.2		0.0		182.9

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64D Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Modernized Target Acquisition & Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) modification program is the Army initiative to provide 2nd Generation Forward Looking Infrared (SGF) (FLIR) sensors for the Apache fleet. Suite modifications encompass: M-TADS/PNVS Line Replaceable Units (LRU), TADS Electronic Display and Control (TEDAC) assemblies, and the Integrated Helmet Display Sight System (IHDSS) assemblies. The SGF system improves overall pilotage and enhances the pilot's ability to engage targets during night and bad weather. Specifically: increased detection range, enhanced recognition and target identification; higher resolution and sensitivity for safety and pilotage performance (especially in adverse weather); better identifying of friend/foe during hostilities; and increased reliability and reduction in O&S costs. The complementary TEDAC and IHDSS upgrade reduces operating costs, increases cockpit space, and exploits the expanded capability of the M-TADS/PNVS. This exhibit identifies funding for 396 of a total of 582 M-TADS production units and associated displays. The Longbow budget line augments funding for 141 M-TADS production units (FY04-FY06) plus 45 M-TADS units are funded (FY05-FY07) for War Time Replacement aircraft. M-TADS installation costs are not separately priced. Other Support procures TDA Salaries, In-house Matrix and Contractor Support, TEDAC, and IHADSS.Output schedule planning is based on aircraft availability and deployment schedules.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Oct 00 -- M-TADS/PNVS EMD/SDD contract award
Jan 01 -- Preliminary Design Review (PDR); Aug 01 -- Critical Design Review (CDR)
May 02 -- Qualification testing
Dec 03 -- M-TADS/PNVS Production Contract Award
June 05 -- M-TADS/PNVS FUE
Feb 07 _ MTADS/PNVS Lot 4 Production Contract Award (Projected)

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	131	32	33	32	33	14	15	14	14	19	20	19	20								
Outputs	4	5	5	5	6	32	33	32	33	32	33	32	33	32	24	16	15	16	8		

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		396
Outputs																		396

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
SDU								1.4												1.4
Equipment	131	219.2	130	172.5	57	93.9	78	120.0											396	605.6
Equipment, Nonrecurring		21.3																		21.3
TEDAC/IHDSS		49.2		20.0																69.2
Other Support		20.0		12.2		5.0		5.0												42.2
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	4		21																25	
FY 2006 -- Kits					106														106	
FY 2007 Equip -- Kits					24		106												130	
FY 2008 Equip -- Kits							24		33										57	
FY 2009 Equip -- Kits									54		24								78	
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- 0 Kits																				
Total Installment	4	0.0	21	0.0	130	0.0	130	0.0	87	0.0	24	0.0	0	0.0	0	0.0	0	0.0	396	0.0
Total Procurement Cost		309.7		204.7		98.9		126.4		0.0		0.0		0.0		0.0		0.0		739.7

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FFP Contract will be used for all IAFS procurements, FY 08 _FY 10

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	210	12	11	11	11	12	12	12	12												
Outputs	210	12	11	11	11	12	12	12	12												

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		303
Outputs																		303

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
A Kits	45	1.0	48	1.0															93	2.0
B Kits	108	23.1	92	20.5	30	7.0	131	35.2	30	7.9									391	93.7
Other Support & Equipment		0.9		1.5		0.1		3.8		2.1										8.4
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	210	1.4																	210	1.4
FY 2006 -- Kits			45	0.3															45	0.3
FY 2007 Equip -- Kits					48	0.3													48	0.3
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	210	1.4	45	0.3	48	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	303	2.0
Total Procurement Cost		26.4		23.3		7.4		39.0		10.0		0.0		0.0		0.0		0.0		106.1

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Apache Recap Program was approved by the VCSA & the AAE in 10 Apr 02. Apache Modernizations and Recap provides near term improvements to the fleet, focusing on reliability and safety (R&S) upgrades and operational deficiencies. The R&S mods and selected component recapitalization are being accomplished by the reman line, field retrofits and through spares. Improvements center on: main transmission, rotor blades, gear boxes, and hydraulic systems. Funding also provides for selected component recap and insertion of R&S mods for the Apache fleet. This funding supports the incorporation of recap 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 NRE analysis of components. These assessments ensure that the recap 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. Beginning FY07, Condition Based Maintenance (CBM) is programmed to begin for fleet retrofit of the AH-64D to incorporate a Modernized Signal Processing Unit (MSPU). Input/Ouput in FY08-09 represents the installation of both R&S and CBM kits. FY10-13 represents the installation of CBM kits only. Recap funding for FY 09 through FY 13 includes selected component recap fixes identified through a Sandia National Laboratory analysis or nonrecurring engineering analysis that were not mature enough to begin earlier or still in the design

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 06 - FFP Contract
Jan 07 - FFP Contract Option
Mar 07 - FFP Contract restructure to support the 96 additional aircraft

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	53	15	15	15	15	30	30	30	30	23	24	24	24	18	18	18	18	15	15	15	15
Outputs	53	15	15	15	15	30	30	30	30	23	24	24	24	18	18	18	18	15	15	15	15

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs					15	15	15	15										520
Outputs					15	15	15	15										520

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
CBM			100	8.6			72	9.5	60	8.8			60	9.6					292	36.5
Other Recap				0.5				11.3		7.5		4.8		7.4		5.9				37.4
Installation Kits, Nonrecurring																				
R&S Equipment (Kits)		108.0	115	65.1															115	173.1
Other Support		15.4						2.5		2.5				4.2		1.1				25.7
Non-recurring engineering		11.0																		11.0
Installation of Hardware																				
FY 2006 & Prior Equip -- R&S Kits	53	1.4	60	2.1															113	3.5
FY 2007 -- R&S Kits					60	2.1	55	2.0											115	4.1
FY 2008 Equip -- R&S Kits																				
FY 2009 Equip -- R&S Kits																				
FY 2010 Equip --R&S Kits																				
FY 2007 Equip -- 100 CBM Kits					60	0.9	40	0.6											100	1.5
FY 2008 Equip -- 0 CBM Kits																				
FY 2009 Equip -- 72 CBM Kits									72	1.6									72	1.6
FY 2010 Equip -- 60 CBM Kits											60	1.2							60	1.2
FY 2011 Equip -- 0 CBM Kits																				
F Y 2012 Equip -- 60 CBM															60	1.3			60	1.3
TC Equip- Kits																				
Total Installment	53	1.4	60	2.1	120	3.0	95	2.6	72	1.6	60	1.2	0	0.0	60	1.3	0	0.0	520	13.2
Total Procurement Cost		135.8		76.3		3.0		25.9		20.4		6.0		21.2		8.3		0.0		296.9

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: AH-64D Block III [MOD 8] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D Longbow Apache

DESCRIPTION / JUSTIFICATION:

AH-64D Apache Longbow modernization is an evolutionary acquisition program implemented in block configurations. Apache Longbow Block III will provide Network-Centric capabilities to 634 Apache Longbows at a critical time as the Army transitions from the current force to the future force. Apache Longbow Block III capability enhancements are achieved via planned technology insertions such as: Future Force (FF) Connectivity-Seamless Global Information Grid Communications (Interim Communications Suite embedded in an Open Systems Architecture (OSA); Off-Board Sensors - Extended Range Sensing; Increased Survivability; Cognitive Decision Aiding System (CDAS) which speeds Critical Battle Tasks; Improved Aircraft Performance: Reduced Operations and Support (O&S) Cost and Logistics Footprint, and Increased Aircraft Readiness. To Complete (TC) funding procures the remaining components required to achieve fully configured Longbow Block III aircraft. Apache Longbow Block III satisfies the updated Apache Capability Development Document (CDD) requirements for modernization. Other Support procures Table of Distribution and Allowances (TDA) Salaries, In-house Matrix and Contractor Support. Non-recurring engineering for Block III in FY05 through FY13 is found in PE 0203744A -- Aircraft Modifications/Product Improvement Program, Project D17.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Advance Procurement (LRIP) Lot 1 Contract Award Production - Third Quarter FY09
Low Rate Initial Production Contract Award - Third Quarter FY10
First Block III Delivery - Third Quarter FY11
Full Rate Production Contract Award - Second quarter FY12

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	7	8	11	11	11	12	12	12	12	12	12	12	12	12	12	12	410	634
Outputs	9	9	9	9	7	8	11	11	11	12	12	12	12	12	12	12	458	634

METHOD OF IMPLEMENTATION: Firm Fixed Price ADMINISTRATIVE LEADTIME: 8 months PRODUCTION LEADTIME: 12 months
Contract

Contract Dates: FY 2008 - FY 2009 - FY 2010 - June 10

Delivery Dates: FY 2008 - FY 2009 - FY 2010 - June 11

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): AH-64D Block III [MOD 8] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Block III Upgrades									8	131.5	36	378.2	48	508.0	48	559.0	494	5195.5	634	6772.2
Other Support										21.2		39.2		42.6		42.8		413.0		558.8
Long Lead Items								11.1		9.4		12.0		12.5		13.5		124.2		182.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip - 8 Kits											8								8	
FY 2011 Equip -- 36 Kits													36						36	
FY 2012 Equip -- 48 Kits															37		11		48	
TC Equip - 542 Kits																	542		542	
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.0	36	0.0	37	0.0	553	0.0	634	0.0
Total Procurement Cost		0.0		0.0		0.0		11.1		162.1		429.4		563.1		615.3		5732.7		7513.7

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funding for the AH-64 Extended Block II Upgrade supports the revised Modernized Strategy for the Apache Helicopter which was approved by the VCSA 1 Nov 2004. The plan allows for the remanufacture of an additional 120 AH-64A aircraft to the AH-64D (Lots 11-14) configuration. The schedule generates greater attack helicopter combat power for the Warfight sooner and accelerates Reserve Component modernization by cascading Longbow Block I aircraft directly to USAR and ARNG Apache battalions. By modernizing additional AH-64As, the Army is acknowledging concerns of OSD and Congress by mapping out a strategy for the entire Apache fleet. Other Support procures TDA Salaries, In-house Matrix and Contractor Support for Apache Project Manager's Office. Long lead procurement is identified in P-10 exhibits. Procurement is thru a single year FFP contract, FY 07, with options FY08-FY09.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs		6	10	10	10	9	9	9	9	9	9	9	5	4	4	4	4				
Outputs						6	10	10	10	9	9	9	9	9	9	9	5	4	4	4	4

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		120
Outputs																		120

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Kit Quantity/Equipment			36	422.1	36	432.1	32	375.8	16	197.2									120	1427.2
Long Lead		38.7		18.9		41.0		18.3												116.9
Other Support		10.3		29.4		34.9		36.8		20.9										132.3
Training																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits					36														36	
FY 2008 Equip -- Kits							36												36	
FY 2009 Equip -- Kits									32										32	
FY 2010 Equip -- Kits											16								16	
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	36	0.0	36	0.0	32	0.0	16	0.0	0	0.0	0	0.0	0	0.0	120	0.0
Total Procurement Cost		49.0		470.4		508.0		430.9		218.1		0.0		0.0		0.0		0.0		1676.4

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: AH-64 Post Production Organic Support [MOD 12] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funds will be used to establish a pilot program (initially at Corpus Christi Army Depot (CAD)) to support transitioning repair/overhaul of selected AH-64D Longbow unique airframe components, currently supported by the contractor/Original Equipment Manufacturer (OEM), to organic depot facilities (Corpus Christi Army Depot and Tobyhanna Army Depot). The transitioning is occuring in phases from the least to the most complex Transition Package.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY08 funds -- MIPR to CCAD, Nov 07

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): AH-64 Post Production Organic Support [MOD 12] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Other - Transition Packages		1.1		1.3		2.1		20.8		27.2										52.5
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip -- Kits																				
Other Support								2.5		2.5										5.0
Total Installment	0	0.0	0	0.0	0	0.0	0	2.5	0	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	5.0
Total Procurement Cost		1.1		1.3		2.1		23.3		29.7		0.0		0.0		0.0		0.0		57.5

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

FY07 funding procures eighteen (18) Longbow WRA (with Fire Control Radar, Modernized TADS/PNVS, and Aircraft Survivability Equipment to include common missile warning system) to replace those helicopters attrited during Operation Iraqi Freedom and Operation Enduring Freedom (OIF/OEF). Essentially, these 18 replacement aircraft will be the same configuration as those produced under the remanufacturing contract, but will be fitted with a new fuselage and materials rather than being remanufactured. WRA fills helps the production gap between Extended Block II (EB2) and the start of Block III. (Thirteen additional WRA are being procured thru a FY05 Supplemental -- funding was housed within the SSN AA6670 Longbow Apache P Forms.)

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	14		4	4	4	4	2														
Outputs									2	2	3	5	6	5	7	2					

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement	14	419.1	18	621.0															32	1040.1
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 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits					2		11		1										14	
FY 2007 Equip -- Kits							5		13										18	
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	2	0.0	16	0.0	14	0.0	0	0.0	0	0.0	0	0.0	0	0.0	32	0.0
Total Procurement Cost		419.1		621.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1040.1

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Aircraft Survivability Product Improvement (ASPI) [MOD 15] 000-000-0

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY 08 Contract Award -- Nov 07

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Aircraft Survivability Product Improvement (ASPI) [MOD 15] 000-000-0

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity					240	69.6													240	69.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits					180		60												240	
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	180	0.0	60	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	240	0.0
Total Procurement Cost		0.0		0.0		69.6		0.0		0.0		0.0		0.0		0.0		0.0		69.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost											
Less PY Adv Proc											
Plus CY Adv Proc		38.7	18.9	41.0	29.4	9.4	12.0	12.5	13.6	124.2	299.7
Net Proc P1		38.7	18.9	41.0	29.4	9.4	12.0	12.5	13.6	124.2	299.7
Initial Spares											
Total Proc Cost		38.7	18.9	41.0	29.4	9.4	12.0	12.5	13.6	124.2	299.7
Flyaway U/C											
Weapon System Proc U/C											

Description:

Description:

The AH-64 MODS upgrade program encompasses modification of 120 AH-64A Apaches (FY07-FY10) to AH64D Apache Longbow configuration (Block II and Extended Block II) and the follow-on upgrade of 634 aircraft systems (FY10-FY24) to the Apache Longbow Block III configuration. The Longbow weapon system includes 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:

FY08 Advanced Procurement funds long-lead items in support of the Apache Extended Block II (EB2) remanufacture program.

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

First System Award Date:	First System Completion Date:	Date: February 2007

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 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
End Item Quantity													
Longbow Extended Block II	12	12		38.7	18.9	41.0	18.3						116.9
Longbow Block III	12	12					11.1	9.4	12.0	12.5	13.6	124.2	182.8
Total Advance Procurement			**0.0**	**38.7**	**18.9**	**41.0**	**29.4**	**9.4**	**12.0**	**12.5**	**13.6**	**124.2**	**299.7**

End Item Procurement Quantities for AH-64 Extended Block II (EB2) Program are as follows:

FY07 - 36 Aircraft

FY08 - 36 Aircraft

FY09 - 32 Aircraft

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

Date: February 2007

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	2008 Qty	2008 Contract Forecast Date	2008 Total Cost Request	2009 Qty	2009 Contract Forecast Date	2009 Total Cost Request
Longbow Extended Block II	12			32.0	1Q FY08	41.0	16.0	1Q FY09	18.3
Longbow Block III	12						8.0	1Q FY09	11.1
Total Advance Procurement						**41.0**			**29.4**

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

Date: February 2007

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

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

($ in Millions)

		2006					2007					2008		2009	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity															
Longbow Extended Block II	12	36	1Q FY06		38.7	38.7	36	1Q FY07		18.9	38.7	32	1Q FY08	16	1Q FY09
Longbow Block III	12													8	1Q FY09
Total Advance Procurement					**38.7**	**38.7**				**18.9**	**38.7**				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	6410.1	668.8	1118.1	577.3	727.1	701.7	910.3	1281.8	762.1	6398.4	19555.7
Less PY Adv Proc	995.5	23.7	24.7	36.6	39.2	49.6	50.7	57.8	55.0	60.3	1393.0
Plus CY Adv Proc	1019.2	24.7	36.6	39.2	49.6	50.7	57.8	55.0	60.3	274.1	1667.1
Net Proc P1	6433.9	669.7	1130.1	579.8	737.5	702.8	917.3	1279.0	767.5	6612.2	19829.8
Initial Spares	260.4	1.5	2.0	2.0	2.0	2.0	2.0			14.0	286.0
Total Proc Cost	6694.2	671.2	1132.1	581.9	739.5	704.8	919.4	1279.0	767.5	6626.2	20115.8
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, Transportable Flight Proficiency Simulators, Cargo Handling Floor system, Ballistic Protection System, Transformation Sets, Kits and Outfits, Aviation Training Devices, M240 Window/Door gun Mounts and an automated maintenance program with a 400-hour phase interval. The recapitalization program rebuilds and upgrades all CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration. This program is funded to meet the Army Aviation Transformation Plan full requirement for Chinook aircraft. Additional Supplements will procure 17 aircraft to replace battle losses during the Global War on Terrorism and 24 aircraft for the National Guard.

Justification:
FY 2008 procures 23 aircraft, safety and operation modification to the CH-47D fleet and trainers to maintain the latest configuration. Safety and operation modification, to include component recapitalization, are planned for all fielded aircraft. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications are Engine Fire Extinguisher, Engine Filtration System, Aviation Combined Arms Tactical Trainer, Transportable Flight Proficiency Simulators and conversion of 15 CH-47Ds to CH-47Fs, 6 MH-47 G Special Operations Aircraft, Ballistic Protection Systems, Aircraft Component Parts-marking, Combining Transmission Fan Drive Shaft, Electric Pump Utility System Hydraulic Accumulator (EPUSHA), Crashworthy Seats, Adjustable Pitch Change Link, Aft Pylon Work Platform, Special Test Sets, Kits, and Outfits, M240 Window Door Gunner Mount, and the T55 Electronic Control Unit (ECU), T55 P3 Check Value to equip new Chinook units forming under the Army's Aviation Transformation Plan.

Supplemental Funding: FY06 Title IX $28.5M, and FY07 Title IX $511.5M.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years									
OSIP No.	Classification	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Engine Filtration System											
1-93-01-0807	Operational	34.3	8.5	0.2	0.3	0.2	0.3	0.0	0.0	0.0	43.8
Engine Upgrade to T55-GA-714A Configuration											
1-96-01-0828	Operational	2493.6	46.6	14.4	31.1	28.3	22.4	13.6	29.7	26.9	2706.6
CH-47F											
0-00-00-0000	Operational	1477.2	1036.6	511.3	626.6	616.5	850.5	1210.4	686.9	4116.5	11132.5
Low Maintenance Rotor Hub											
0-00-00-0000	Operational	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9
Engine Fire Extinguisher (Halon Replacement)											
0-00-00-0000	Operational	9.8	8.2	8.3	8.4	9.3	0.0	0.0	0.0	0.0	44.0
AVCATT											
0-00-00-0000		0.0	5.0	4.7	1.2	0.0	0.0	0.0	0.0	0.7	11.6
Maintenance Training Devices (MTD)											
0-00-00-0000		4.3	3.6	5.3	8.3	9.9	7.0	6.4	7.1	0.7	52.6
Transformation Sets, Kits and Outfits											
0-00-00-0000	Safety	30.6	4.9	7.7	10.3	12.1	13.7	12.7	8.6	0.0	100.6
Aircraft Component Parts-Marking											
0-00-00-0000		0.0	1.3	8.8	7.4	3.5	0.0	0.0	0.0	0.0	21.0
Ballistic Protection System (BPS)											
0-00-00-0000		0.0	0.0	4.5	2.7	2.8	2.8	2.8	2.2	0.0	17.8
Cargo Handling Floor System											
0-00-00-0000		0.0	0.0	0.0	24.9	9.3	9.2	24.7	26.6	0.0	94.7
M240 Window/Door Gun Mount											
0-00-00-0000		0.0	9.3	4.5	5.9	5.1	5.8	5.9	6.4	1.4	44.3
CH-47 MISC Mods $5M or Less											
0-00-00-0000	Operational	1.5	6.1	10.1	10.4	5.8	5.6	2.5	0.0	0.0	42.0
Totals		4087.2	1130.1	579.8	737.5	702.8	917.3	1279.0	767.5	4146.2	14347.4

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

Type of Improvement _ Improved Operational Capability, Improved reliability and lower Operational/Support Costs. This modification will replace the T55-L-712 engine with the T55-GA-714A engine which results in increased 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 radious at 4,000 feet/95 degrees Fahrenheit. With the T55-GA-714A engine the CH-47D does meet the required operational capability. T55-GA-714A engine improvements will increase reliability, increase engine time on wing and lower operational and support costs. Upgrades include a new Electronic Control Unit (ECU). The ECU will replace the Digital Electronic Control Unit (DECU) currently used which will improve reliability and add enhanced features. The Improved Torque Meter will address torque errors associated with the current system. Torque accuracy of the current system is +/-5.9%, the new system is designed to meet +/-2.0%. This will lower operational and support costs and increase torque kit reliability. DECU/ECU remote readout. This program will allow engine performance check data to be viewed when access to the DECU/ECU display window is not possible. P3 Check Valve improvement. The current P3 check valve can crack causing P3 leaks which can lead to uncommanded fuel flow reduction. The new P3 valve resolves this issue and adds a self draining feature. Installation schedules and methods of implementation are not listed because numerous mods of varied schedules, delivery dates, and methods of implementation are included. Contract and delivery are shown in Development Status below.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

ECU: ECP Delivery June 2007; Contract Award Fielding Kits: Sept 2007; First Kit Delivery April 2008.
Improved Torque Meter: ECP Delivery 2Q 2008, ECP Approval 3Q 2008, Contract Award for Kits: 1Q 2009, First Kit Delivery 3Q 2009.
T55 DECU Remote Readout: ECP Delivery 2Q 2008, ECP Approval 3Q 2008, Contract Award for Kits: 1Q 2009, First Kit Delivery 3Q 2009.
T55 P3 Check Valve: ECP 2Q 2007, Contract Award for Kits 1Q 2008

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	381	7	7	7	8	17	15														
Outputs	381	7	7	7	8	17	15														

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		442
Outputs																		442

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 0 months

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
New Engines	1200	2426.5	50	41.8															1250	2468.3
T55 Engine Control Unit Prog (ECU)					56	6.1	131	7.9	140	8.4	97	5.7	73	4.4	338	20.2	415	22.0	1250	74.7
P3 Check Value					139	2.4	234	2.5	112	1.1									485	6.0
Digital ECU Remote Readout							234	9.4	179	7.2	158	6.5							571	23.1
Improved Torque Meter							260	9.1	257	8.9	225	7.9	213	7.5	226	7.9	137	4.9	1318	46.2
PM Admin Support						0.5		1.7		1.3		1.2		0.7		1.0				6.4
Logistics		46.3		2.8		1.5														50.6
--																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	371	20.1																	371	20.1
FY 2006 -- Kits	10	0.7	29	2.0	9	0.6													48	3.3
FY 2007 Equip -- Kits					23	3.3													23	3.3
FY 2008 Equip -- Kits								0.5												0.5
FY 2009 Equip -- Kits										1.4										1.4
FY 2010 Equip -- Kits												1.1								1.1
FY 2011 Equip -- Kits														1.0						1.0
FY 2012 Equip -- Kits																0.6				0.6
TC Equip- Kits																				
Total Installment	381	20.8	29	2.0	32	3.9	0	0.5	0	1.4	0	1.1	0	1.0	0	0.6	0	0.0	442	31.3
Total Procurement Cost		2493.6		46.6		14.4		31.1		28.3		22.4		13.6		29.7		26.9		2706.6

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION / JUSTIFICATION:

The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. The CH-47F Improved Cargo Helicopters mission is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations and is an essential component of the Army Future Force and is vital to the War on Terrorism and the Homeland Security needs of our nation. This budget line for the CH-47F program procures 462 aircraft out of the Armys 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 aircraft requirement consists of 61 special operations MH-47Gs (which includes the three unique Special Operations/Congressionally funded helicopters mentioned above), 24 National Guard aircraft and 377 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. Additional Supplements will procure 17 aircraft to replace battle losses during the Global War on Terrorism and 24 aircraft for the National Guard.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 10 months PRODUCTION LEADTIME: 25 months

Contract Dates:	FY 2008 - Mar 08	FY 2009 - Jan 09	FY 2010 - Jan 10
Delivery Dates:	FY 2008 - Apr 10	FY 2009 - Feb 11	FY 2010 - Feb 12

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Recurring Production (Suppl)			17	511.5															17	511.5
Recurring Production (Mods)	60	982.1	15	259.5	23	447.1	23	555.2	26	539.6	28	575.6	28	567.2	27	587.6	182	3654.8	412	8168.7
Recurring Production (New Build)			6	177.5															6	177.5
Recurring (New Build NG)											6	180.0	18	540.0					24	720.0
Other Flyaway		253.0		41.7		30.2		40.2		32.7		46.8		69.9		61.5		335.2		911.2
Other Support		127.8		31.5		19.5		10.3		18.6		21.9		13.8		27.9		81.2		352.5
Training		104.8		11.2		9.1		17.9		18.5		19.0		10.1		0.7		4.3		195.6
Support Equipment		9.5		3.7		5.4		3.0		7.1		7.2		9.4		9.2		41.0		95.5
--																				
--																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		1477.2		1036.6		511.3		626.6		616.5		850.5		1210.4		686.9		4116.5		11132.5

INDIVIDUAL MODIFICATION Date: February 2007

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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs		2	2	2	1	21	21	21	21	21	21	22	21	21	21	22	21	21	21	22	23
Outputs		2	2	2	1	21	21	21	21	21	21	22	21	21	21	22	21	21	21	22	23

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	23	23	23															417
Outputs																		348

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
A-Kit Quantity	74	2.1	85	2.5	85	2.5	85	2.5	92	2.8									421	12.4
Engineering Support		2.7																		2.7
Logistics		0.1		0.2		0.2		0.2		0.2										0.9
PM Support		0.3		0.1		0.1		0.1		0.1										0.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits	74	4.6																	74	4.6
FY 2008 Equip -- Kits			85	5.4															85	5.4
FY 2009 Equip -- Kits					85	5.5													85	5.5
FY 2010 Equip -- Kits							85	5.6											85	5.6
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits									92	6.2									92	6.2
Total Installment	74	4.6	85	5.4	85	5.5	85	5.6	92	6.2	0	0.0	0	0.0	0	0.0	0	0.0	421	27.3
Total Procurement Cost		9.8		8.2		8.3		8.4		9.3		0.0		0.0		0.0		0.0		44.0

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Maintenance Training Devices (MTD) [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Maintenance Training Devices (MTD) [MOD 7] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
MTD Upgrades				2.3	2	3.1	4	7.2	5	8.3	3	5.4	4	4.7	4	5.4			22	36.4
Engineering Support		4.1		1.2		2.1		0.9		1.3		1.3		1.4		1.4				13.7
Logistics		0.2		0.1		0.1		0.2		0.3		0.3		0.3		0.3		0.7		2.5
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		4.3		3.6		5.3		8.3		9.9		7.0		6.4		7.1		0.7		52.6

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Transformation Sets, Kits and Outfits [MOD 8] 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. Procurement of these kits are through requisition in the supply system.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Transformation Sets, Kits and Outfits [MOD 8] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
SKOs	12	30.6	2	4.7	3	7.5	4	10.0	4	12.1	4	13.7	5	12.7	3	8.6			37	99.9
PM Support				0.2		0.2		0.3												0.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		30.6		4.9		7.7		10.3		12.1		13.7		12.7		8.6		0.0		100.6

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

The CH-47 Cargo program will adopt an automatic information system (AIS). This will include automatic identification technology (AIT) which will provide error free documentation of aircraft and components across the fleet. This project will locate mobile partsmarking facilities to allow the Cargo Helicopter PMO to effectively manage the CH-47 fleet.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Component Markings				1.3		8.8		7.4		3.5										21.0
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		1.3		8.8		7.4		3.5		0.0		0.0		0.0		0.0		21.0

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Ballistic Protection System (BPS) [MOD 10] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Ballistic Protection System (BPS) will be used to protect aircrews, passengers, cargo and critical aircraft components from hostile fire while in flight and on the ground. The current BPS system is extremely heavy, maintenance intensive to install and does not allow for easy configuration of the aircraft during missions. It also does not allow for the installation of any Cargo Handling System. This BPS will be lighter than the current system and will increase the CH-47 availability to the war fighter while also increasing its single day mission diversity and reducing the man-hours required for installing and removing for each mission.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

NRE Contract Award Apr 08
production Contract Award Apr 09

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	4	5	5	4	4	5	5	4	5	5								86
Outputs	4	5	5	4	4	5	5	4	5	5								86

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

Contract Dates:	FY 2008 - Apr 08	FY 2009 - Apr 09	FY 2010 - Apr 10
Delivery Dates:	FY 2008 - Aug 08	FY 2009 - Aug 09	FY 2010 - Aug 10

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Ballistic Protection System (BPS) [MOD 10] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
BPS NRE					15	4.3													15	4.3
BPS Kits							18	2.6	18	2.7	18	2.7	18	2.7	14	2.1			86	12.8
PM Support						0.2		0.1		0.1		0.1		0.1		0.1				0.7
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		4.5		2.7		2.8		2.8		2.8		2.2		0.0		17.8

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Cargo Handling Floor System [MOD 11] 0-00-00-0000

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

DESCRIPTION / JUSTIFICATION:

The Cargo Handling Floor Systems will improve the worn out, out dated Helicopter Improved Cargo Handling System. The floors would be integrated into the aircraft. This would allow for units to perform cargo missions and pax missions without stoping to reconfigure the helicopter. The current system is a bolt on system that is maintenance intensive to install and remove. The cargo handling floor would allow a cargo handling system to be installed on the aircraft all the time allowing for in-flight mission changes as needed and reducing mission prep time while eliminating nan-hours needed to install.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

NRE Contract Award mar 09

Production Contract Award mar 10

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																	16	16	16	17	16
Outputs																	16	16	16	17	16

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	16	16	17	44	44	45	45	48	48	48	49							501
Outputs	16	16	17	44	44	45	45	48	48	48	49							501

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

Contract Dates: FY 2008 - FY 2009 - Mar 09 FY 2010 - Mar 10

Delivery Dates: FY 2008 - FY 2009 - Dec 09 FY 2010 - Sep 10

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Cargo Handling Floor System [MOD 11] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Cargo Handling Floor System								24.2	65	8.8	65	8.8	178	24.3	193	26.2	500		1001	92.3
PM Support								0.7		0.5		0.4		0.4		0.4				2.4
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		24.9		9.3		9.2		24.7		26.6		0.0		94.7

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: M240 Window/Door Gun Mount [MOD 12] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D and F

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award - April 08

First Production Hardware Delivery - Sep 08

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs														10	20	20	10	20	20	20	20
Outputs														10	20	20	20	10	20	20	20

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	20	20	20	10	20	20	20	20	40	40	40	10	20	20	20			480
Outputs	20	20	20	20	20	20	20	20										300

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 18 months

Contract Dates: FY 2008 - Apr 08 FY 2009 - Apr 09 FY 2010 - Apr 10

Delivery Dates: FY 2008 - Sep 09 FY 2009 - Sep 10 FY 2010 - Sep 11

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): M240 Window/Door Gun Mount [MOD 12] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Door Gunner Mount A Kits				9.0	50	0.8	100	1.5	80	1.2	100	1.5	100	1.5	70	1.1		1.2	500	17.8
Door Gunner Mount B Kits					70	3.4	80	4.0	70	3.5	76	3.8	80	4.0	97	4.8			473	23.5
PM Support				0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.1		2.2
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits							70	0.1	70	0.1	80	0.2	70	0.1	140	0.2	70	0.1	500	0.8
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	70	0.1	70	0.1	80	0.2	70	0.1	140	0.2	70	0.1	500	0.8
Total Procurement Cost		0.0		9.3		4.5		5.9		5.1		5.8		5.9		6.4		1.4		44.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost											
Less PY Adv Proc											
Plus CY Adv Proc	1019.2	24.7	36.6	39.2	49.6	50.7	57.8	55.0	60.3	325.4	1718.4
Net Proc P1	1019.2	24.7	36.6	39.2	49.6	50.7	57.8	55.0	60.3	325.4	1718.4
Initial Spares											
Total Proc Cost	1019.2	24.7	36.6	39.2	49.6	50.7	57.8	55.0	60.3	325.4	1718.4
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. The CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. Key product improvements integrate the CH-47F Common Avionics Architecture System (CAAS) digital cockpit which will provide future growth potential to meet the Net-Ready Key Performance Parameters (KPPs) and also includes a digital data bus that permits installation of enhanced communication and navigation equipment for improved situational awareness, mission performance, and survivability. The new digital cockpit incorporates all new airframe components and modifies the aircraft to reduce vibration. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability.

Justification:
FY 2008 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 2007

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 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
End Item Quantity													
Avionics	13	14	407.7	9.9	14.6	15.7	19.8	20.3	23.1	22.0	24.1	205.4	762.6
Airframe	25	16	611.5	14.8	22.0	23.5	29.8	30.4	34.7	33.0	36.2	120.0	955.9
Total Advance Procurement			**1019.2**	**24.7**	**36.6**	**39.2**	**49.6**	**50.7**	**57.8**	**55.0**	**60.3**	**325.4**	**1718.5**

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

Date: February 2007

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	2008 Qty	2008 Contract Forecast Date	2008 Total Cost Request	2009 Qty	2009 Contract Forecast Date	2009 Total Cost Request
Avionics	13	1	1.0	23.0	Mar 08	15.7	23.0	Jan 09	19.8
Airframe	25	1	1.0	23.0	Mar 08	23.5	23.0	Jan 09	29.8
Total Advance Procurement						**39.2**			**49.6**

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

Date: February 2007

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)

	Pr Yrs	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	To Comp	Total
Proposal w/o AP											
Then Year Cost				409	426	539	736	1053			3163
Constant Year Cost				399	415	525	716	1024			3078
Present Value				395	403	499	668	937			2901
AP Proposal											
Then Year Cost				393	500	484	673	979			3029
Constant Year Cost				383	487	471	655	952			2947
Present Value				379	472	448	611	871			2782
AP Savings (Difference)											
Then Year Cost				-16	74	-55	-62	-74			-134
Constant Year Cost				-16	72	-53	-61	-72			-130
Present Value				-16	70	-51	-57	-66			-119

Constant Year Dollars are Fiscal Year 2005.

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

Date: February 2007

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)

		2006					2007					2008		2009	
	PLT (mos)	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity															
Avionics	13			Dec 05	9.9	9.9	32	Dec 06	Dec 06	14.6	14.6	23	Mar 08	23	Jan 09
Airframe	25			Dec 05	14.8	14.8	32	Dec06	Dec 06	22.0	22.0	23	Mar 08	23	Jan 09
Total Advance Procurement					**24.7**	**24.7**				**36.6**	**36.6**				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	91.9	15.9	9.9	17.2	15.0	18.7	10.5	10.3	10.5		199.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	91.9	15.9	9.9	17.2	15.0	18.7	10.5	10.3	10.5		199.9
Initial Spares											
Total Proc Cost	91.9	15.9	9.9	17.2	15.0	18.7	10.5	10.3	10.5		199.9
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 2008 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 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Avionics System Cockpit Upgrade											
1-96-01-0612	UNCLASSIFIED	107.8	9.9	17.2	15.0	18.7	10.5	10.3	10.5	0.0	199.9
Totals		107.8	9.9	17.2	15.0	18.7	10.5	10.3	10.5	0.0	199.9

INDIVIDUAL MODIFICATION Date: February 2007

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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	100			2	3			22	23			5	5			9	9			3	3
Outputs	94	6			2	3			22	23			5	5			9	9			3

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			17	17			35	35										288
Outputs	3			17	17			35	35									288

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits	100	76.7	5	7.4	45	12.5	10	10.4	18	13.0	6	7.4	34	7.2	70	7.3			288	141.9
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data		0.6		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.3
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits	100	30.5																	100	30.5
FY 2007 Equip -- Kits			5	2.4															5	2.4
FY 2008 Equip -- Kits					45	4.6													45	4.6
FY 2009 Equip -- Kits							10	4.5											10	4.5
FY 2010 Equip -- Kits									18	5.6									18	5.6
FY 2011 Equip -- Kits											6	3.0							6	3.0
FY 2012 Equip -- Kits													34	3.0					34	3.0
FY 2013 Equip -- Kits															70	3.1			70	3.1
TC Equip-Kits																				
Total Installment	100	30.5	5	2.4	45	4.6	10	4.5	18	5.6	6	3.0	34	3.0	70	3.1	0	0.0	288	56.7
Total Procurement Cost		107.8		9.9		17.2		15.0		18.7		10.5		10.3		10.5		0.0		199.9

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	15.5	0.6	0.4	0.3	0.6	0.8	0.8	0.8	0.8		20.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	15.5	0.6	0.4	0.3	0.6	0.8	0.8	0.8	0.8		20.7
Initial Spares											
Total Proc Cost	15.5	0.6	0.4	0.3	0.6	0.8	0.8	0.8	0.8		20.7
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 2008 procures new C-20/C-37 Communication, Navigation, and Surveillance equipment as well as interior/exterior aircraft upgrades needed to support the crew in meeting the demands of the future air navigation system and the customer. 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 Communication Plan requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	620										620
Gross Cost	7009.0	83.4									7092.4
Less PY Adv Proc	416.9										416.9
Plus CY Adv Proc	416.9										416.9
Net Proc P1	7009.0	83.4									7092.4
Initial Spares	58.0										58.0
Total Proc Cost	7067.0	83.4									7150.4
Flyaway U/C											
Weapon System Proc U/C	45.8										45.8

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

Justification:
No FY 2008 request. All Apache Longbow funding consolidated on SSN AA6605 Apache Mods.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
Less PY Adv Proc	13.5										13.5
Plus CY Adv Proc	13.5										13.5
Net Proc P1	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
Initial Spares											
Total Proc Cost	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
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:
FY08 procures and installs the Crashworthy External Fuel System (CEFS). CEFS is a safety modification that reduces the risk of a post-crash fire.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
Less PY Adv Proc	13.5										13.5
Plus CY Adv Proc	13.5										13.5
Net Proc P1	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
Initial Spares											
Total Proc Cost	750.8	59.0	58.0	13.0	11.0	11.0	11.0	12.0	12.5		938.2
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, the newer UH-60L which was fielded in FY89, and the UH-60M which began 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:
FY08 procures and fields the Crashworthy External Fuel System (CEFS). CEFS is a safety modification that reduces the risk of a post-crash fire.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Crashworthy External Fuel System (CEFS)											
OSIP	Safety	98.7	22.8	13.0	11.0	11.0	11.0	12.0	12.5	0.0	192.0
HH-60L Medical Equip Package (MEP)											
OSIP	Operational	78.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3
Combat Search and Rescue (CSAR)											
OSIP	Operational	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Adv Hel Transmission Lubricant (AHTL)											
OSIP	RAM	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Brigade Sets											
OSIP	Operational	24.5	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
FLIR/Ext. Mount (AN/AAQ-22)											
OSIP	Operational	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
Health Usage Monitoring System (HUMS)											
OSIP	RAM	21.2	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0
Internal Extended Range Fuel System (Internal 200)											
OSIP		0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Engine Digital Electronic Control											
OSIP		0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
UH-60A to UH-60L Conversion											
OSIP		0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Totals		237.3	58.0	13.0	11.0	11.0	11.0	12.0	12.5	0.0	365.8

INDIVIDUAL MODIFICATION Date: February 2007

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

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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	400	77	77	77	78	21	20	20	20	19	19	18	18	18	18	18	18	18	18	17	17
Outputs	370	50	50	50	50	50	50	50	50	39	19	18	18	18	18	18	18	18	18	17	17

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	18	17	17	17	18	18	18	17										1146
Outputs	18	17	17	17	18	18	18	17										1146

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

Contract Dates:	FY 2008 - Nov 07	FY 2009 - Nov 08	FY 2010 - Nov 09
Delivery Dates:	FY 2008 - Aug 08	FY 2009 - Aug 09	FY 2010 - Aug 10

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
A-Kits (A/L)	553	30.9	100	7.5	81	6.4	74	6.1	72	6.1	70	6.0	69	6.1	71	6.5			1090	75.6
A-Kits (GFE to Production)	32	1.7																	32	1.7
A-Kits (GFE to SAR Acft)	10	0.6																	10	0.6
B-kits	324	42.8	50	7.2	30	4.7	20	3.2	20	3.2	20	3.3	25	4.2	25	4.3			514	72.9
Support Equipment/Other		19.0		4.8		1.0		0.9		0.9		0.9		0.9		0.9				29.3
Installation of A-Kits																				
FY2004 & Prior Equip -- 257 Kits	257	2.1																	257	2.1
FY2005 Equip -- 143 Kits	143	1.6																	143	1.6
FY2006 Equip -- 209Kits			209	2.3															209	2.3
FY2007 Equip -- 110 Kits			100	1.0															100	1.0
FY2008 Equip --					81	0.9													81	0.9
FY2009 Equip --							74	0.8											74	0.8
FY2010 Equip --									72	0.8									72	0.8
FY2011 Equip --											70	0.8							70	0.8
TC Equip -													69	0.8	71	0.8			140	1.6
Total Installment	400	3.7	309	3.3	81	0.9	74	0.8	72	0.8	70	0.8	69	0.8	71	0.8	0	0.0	1146	11.9
Total Procurement Cost		98.7		22.8		13.0		11.0		11.0		11.0		12.0		12.5		0.0		192.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	3183.0	23.7	43.5	20.8	13.8	3.4	2.4	1.3	1.9	13.2	3307.1
Less PY Adv Proc	223.3										223.3
Plus CY Adv Proc	223.3										223.3
Net Proc P1	3183.0	23.7	43.5	20.8	13.8	3.4	2.4	1.3	1.9	13.2	3307.1
Initial Spares											
Total Proc Cost	3183.0	23.7	43.5	20.8	13.8	3.4	2.4	1.3	1.9	13.2	3307.1
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, replacing armor panels with lighter-weight, better protective ones, updating the multifunction displays (MFDs) with lightweight MFDs, providing a lighter weight and better positioned common transponder and video data transfer system.

Funding in FY 2008 represents the continuation of SEP field installs and the Weight Reduction efforts.

Justification:
FY08 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 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Safety Enhancement Program (SEP)											
2-97-01-0115	Safety	309.8	5.7	4.4	0.6	0.0	0.0	0.0	0.0	0.0	320.5
Safety Enhancement Program - Weight Reduction											
2-02-01-0116	Safety	17.1	36.3	16.2	12.9	2.9	1.6	0.0	0.0	0.0	87.0
Program Support and Other											
0-00-00-0000		2.0	1.5	0.2	0.3	0.5	0.8	1.3	1.9	13.2	21.7
Totals		328.9	43.5	20.8	13.8	3.4	2.4	1.3	1.9	13.2	429.2

INDIVIDUAL MODIFICATION Date: February 2007

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 better protective set of armor panels. Additionally, extraneous hardware and paint layers will be removed. Of the current fleet of 351 aircraft, various lesser quantities are planned for weight reduction modifications due to the projected retirement schedule of the fleet. These modifications will be applied primarily 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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Nonrecurring				0.5		0.1														0.6
Recurring Labor		1.8		2.0		1.5		1.3		1.0										7.6
Hardware		13.2		31.8		12.6		8.6												66.2
Data/Pubs/Manuals		1.7		0.1																1.8
Support Equipment				0.1																0.1
Technical Support		0.1		1.0		0.8		1.9		1.5		1.4								6.7
Fielding				0.1																0.1
Training/Training Devices				0.2		0.2		0.2												0.6
Installation of Hardware (Retrofit)																				
FY 2003 & Prior Equip -- Kits																				
FY 2004 Equip -- Kits																				
FY 2005 Equip -- Kits																				
FY 2006 Equip -- Kits		0.3																		0.3
FY 2007 Equip -- Kits				0.5																0.5
FY 2008 Equip -- Kits						1.0														1.0
FY 2009 Equip -- Kits								0.9												0.9
FY 2010 Equip -- Kits										0.4										0.4
FY2011 Equip -- Kits												0.2								0.2
TC Eqiup -- Kits																				
Total Installment	0	0.3	0	0.5	0	1.0	0	0.9	0	0.4	0	0.2	0	0.0	0	0.0	0	0.0	0	3.3
Total Procurement Cost		17.1		36.3		16.2		12.9		2.9		1.6		0.0		0.0		0.0		87.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	711.7	88.5	155.8	179.6	176.5	259.3	287.3	359.1	318.2		2536.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	711.7	88.5	155.8	179.6	176.5	259.3	287.3	359.1	318.2		2536.0
Initial Spares	68.5	0.9	4.5	3.3	4.9	7.3	7.6	4.5	4.6		106.2
Total Proc Cost	780.2	89.4	160.3	182.9	181.4	266.5	294.9	363.6	322.8		2642.1
Flyaway U/C											
Weapon System Proc U/C											

Description:

The Airborne Avionics budget line includes the Global Positioning System (GPS), the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), Aviation Tactical Communications Systems (ATCS), the Joint Precision Approach and Landing System (JPALS), 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 (AN/ASN-128D) is being installed on the Blackhawk (UH-60A/L) and Chinook (CH-47D) aircraft. The P3I EGI is being installed on UH-60M, CH-47F, Longobw Apache (AH-64D), Armed Reconnaissance Helicopter (ARH-70A), and Special Operations Aircraft (SOA).

The AMPS is a mission planning/battle synchronization tool that automates aviation mission planning tasks, including tactical command and control, mission planning, and flight planning. It interfaces with the Army Battle Command System (ABCS) and associated networks which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which are loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft, including the Apache Modernization (AH-64A), AH-64-D, ARH-70A, CH-47D/F, Kiowa Warrior (OH-58D), UH-60A/L/M/Q, HH-60L/M, and Unmanned Aerial Systems (UASs).

AMPS is the aviator's 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). To accommodate rapid commercial technology changes the overall system hardware is replaced after five years of use.

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. With interfaces supporting a 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/210/220/231, ARC-186, ARC-164, 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 AH-64D and OH-58D aircraft and will be installed on the CH-47F, and UH/HH-60M.

The ATCS is an Army Aviation Program to procure Alternative Communications (Alt Comms) A&B Kits to meet minimum acceptable near term communication requirements due to delays in the Joint Tactical Radio System (JTRS) program. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform. ATCS will procure JTRS A-Kits beginning in FY13.

The 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.

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:
FY08 procures GPS AN/ASN-128D B-Kits and A-Kits and installations for the UH-60A/L and CH-47D. P3I is required to meet directed SAASM security requirements and to provide a box level IFR navigation capability. GPS P3I, Global Air Traffic Management (GATM) and JPALS programs are closely linked and have joint perspective/participation.

FY08 procures AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase III.

FY08 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 TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

FY08 procures the EGI non-recurring aircraft integration efforts and systems engineering associated with modifying the EGI to include M-Code capabilities. GPS P3I, GATM, and JPALS programs are closely linked and have joint perspective/participation.

FY08 procures ATCS A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M, and SOA for Alt Comms. An Alt Comms suite of aviation radios comprises a standard configuration of non-developmental and commercially available off-the-shelf equipment. The standard configuration consists of 2 each ARC-201D SINCGARS, an Improved Frequency Modulation (IFM) Power Amplifier (two IFM's for CH-47F), and a Multi Mode Aviation Radio Suite of ARC-231 sets.

FY08 procures and installs MFOQA Digital Source Collectors for Army rotary wing 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 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
DGNS (AN/ASN-128B) P3I											
OSIP	Oper/Log	47.5	11.4	18.7	22.5	20.7	11.1	17.7	15.2	0.0	164.8
Aviation Mission Planning System (AMPS)											
1-95-01-2185	Oper/Log	160.6	17.0	19.1	16.6	18.7	17.1	22.3	23.2	0.0	294.6
Embedded GPS Inertial Navigation System (EGI) P3I											
OSIP	Legislative	21.6	3.7	2.5	3.4	11.3	10.5	10.1	8.2	0.0	71.3
Improved Data Modem (IDM)											
OSIP	Oper/Log	321.0	50.9	61.8	54.1	65.6	73.5	107.6	91.5	0.0	826.0
Aviation Tactical Communication Systems											
OSIP	Operational	51.4	57.8	62.5	64.9	98.8	85.4	89.8	103.2	0.0	613.8
Joint Precision Approach and Landing Sys (JPALS)											
OSIP	Operational	0.0	0.0	0.0	0.0	29.2	74.7	111.6	76.9	0.0	292.4
Mil Flight Operation Quality Assurance (MFOQA)											
OSIP		0.0	15.0	15.0	15.0	15.0	15.0	0.0	0.0	0.0	75.0
Totals		602.1	155.8	179.6	176.5	259.3	287.3	359.1	318.2	0.0	2337.9

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: DGNS (AN/ASN-128B) P3I [MOD 1] OSIP

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 P3I for the current ASN-128B/DGNS for the UH-60A/L and CH-47D aircraft is updating to an ASN-128D. This modification will provide enhanced security with the SAASM and GPS Instrument 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 procurement and installation costs vary by platform.

FY08 procures DGNS AN/ASN-128D B-Kits, A-Kits, and installations for the UH-60A/L and CH-47D. The DGNS P3I is required to meet directed SAASM security requirements and to provide a box-level IFR navigation capability. DGNS P3I, GATM, and JPALS programs are closely linked and have joint perspective/participation.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Full Rate Production (FRP) contract awarded August 2005 for B-Kits. The B-Kit production leadtime is 12 months. All A-Kits have been developed and tested for each aircraft being modified.

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	309	31	31	31	31	25	25	25	25	25	25	30	30	56	57	57	57	34	34	34	34
Outputs	108	62	62	62	62	37	37	28	25	25	25	25	25	30	30	56	57	57	57	34	34

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	40	41	40	40	39	39	38	38	25	25	24	24						1419
Outputs	34	34	40	41	40	40	39	39	38	38	25	25	24	24				1419

METHOD OF IMPLEMENTATION: On Site Log/Repair Team ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 6 months

Contract Dates: FY 2008 - Apr 08 FY 2009 - Apr 09 FY 2010 - Apr 10

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): DGNS (AN/ASN-128B) P3I [MOD 1] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity - B-Kit	223	10.0	114	5.9	218	11.6	226	12.3	193	10.0	110	5.9	192	10.4	143	7.7			1419	73.8
B-Kit Nonrecurring		13.5																		13.5
Kit Quantity A-Kit	433	7.7	110	2.2	128	3.0	199	5.0	225	5.3	72	1.8	154	3.7	98	2.4			1419	31.1
Aircaft Integration - Nonrecurring		4.3																		4.3
ECPs		0.4		0.1		0.2		0.3		0.2		0.2		0.2		0.3				1.9
Data		0.7		0.4		0.5		0.7		0.5		0.3		0.4		0.5				4.0
Training Equipment		0.4		0.2		0.2		0.3		0.1		0.1		0.1		0.2				1.6
Systems Engineering		5.9		0.9		1.2		1.3		1.0		0.8		0.9		1.2				13.2
Other - PM Admin		2.1		0.6		1.0		1.2		1.0		0.5		0.9		1.1				8.4
Other																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	158	1.1																	158	1.1
FY 2006 -- Kits	151	1.4	124	1.1															275	2.5
FY 2007 Equip -- Kits					100	1.0	10	0.2											110	1.2
FY 2008 Equip -- Kits							100	1.2	28	0.3									128	1.5
FY 2009 Equip -- Kits									199	2.3									199	2.3
FY 2010 Equip -- Kits											136	1.5	89	0.6					225	2.1
FY 2011 Equip -- Kits													72	0.5					72	0.5
FY 2012 Equip -- Kits															154	1.8			154	1.8
FY2013 Equip -- Kits																	98		98	
Total Installment	309	2.5	124	1.1	100	1.0	110	1.4	227	2.6	136	1.5	161	1.1	154	1.8	98	0.0	1419	13.0
Total Procurement Cost		47.5		11.4		18.7		22.5		20.7		11.1		17.7		15.2		0.0		164.8

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64A/D, ARH-70A, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, and UASs

DESCRIPTION / JUSTIFICATION:

The AMPS, with the integrated TOPSCENE and CAFRS applications, is used to automate Aviation mission planning tasks. The AMPS includes tactical command and control, mission planning, and mission management. It interfaces with the ABCS components, which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which are loaded onto 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. The system functionality is upgraded through the application of Engineering Change Proposals (ECPs) (includes software) in a spiral acquisition program. AMPS is fielded from Army through Aviation Company, centered in the Combat Aviation Brigade.

FY08 procures AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase III. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. The start of the next cycle is in FY11.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Operational Requirements Document Change 1 was approved in April 1998. The AMPS was approved to enter into production through a Milestone III decision in July 2000. As the AMPS has been fielded, it has increasingly become more useful, resulting in expanded numbers of systems per operational unit and also in more types of units now using the system.

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity-B Kit (Computer)	2410	31.3									444	3.9	770	6.8	492	4.4			4116	46.4
Kit Quantity- B Kit (Upgrades)	650	3.0	742	2.8															1392	5.8
Kit Quantity -B Kit (Peripherals)		15.8		0.9		0.3						1.2		1.4		0.6				20.2
B Kit (Nonrecurring)		10.3																		10.3
ECPs		75.1		7.2		12.3		10.2		12.1		5.5		6.9		10.8				140.1
Systems Engineering		2.3		1.4		1.4		1.4		1.4		1.4		1.5		1.5				12.3
System Test & Eval		2.5		0.6		1.2		1.0		1.2		1.1		1.4		1.4				10.4
Fielding/Training		12.4		3.2		3.3		3.4		3.4		3.4		3.6		3.7				36.4
Other - PM Admin		7.9		0.9		0.6		0.6		0.6		0.6		0.7		0.8				12.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		160.6		17.0		19.1		16.6		18.7		17.1		22.3		23.2		0.0		294.6

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Improved Data Modem (IDM) [MOD 4] OSIP

MODELS OF SYSTEM AFFECTED: IDM MD-1359/A;Aircraft: AH-64D, OH-58D, CH-47, UH/HH-60M

DESCRIPTION / JUSTIFICATION:

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to TI and FS internet for Army aircraft. This hardware/software solution also provides a flexible, software driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the AH-64D and OH-58D aircraft and will be installed on the CH-47F, and UH/HH-60M.

FY08 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 incorporation for the AH-64D, CH-47F, HH/UH-60M helicopters and OH-58D Safety Enhancement Program. FY08 funds are also required to complete IDM Software Block 3 modifications and integrate those modifications into Lot 10-12 AH-64D, CH-47F, OH-58D, UH-60M. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

A hardware upgrade of the IDM to mitigate parts obsolescence issues and to refresh technology will be completed in FY07 to support B-Kit procurements in FY08 and out.

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Improved Data Modem (IDM) [MOD 4] OSIP

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity - B -Kits(IDM)	1037	31.6	83	2.2	159	5.9	139	5.2	150	5.8	157	6.2	164	6.5	157	6.4			2046	69.8
Kit Quantity- B -Kits (IDM Mods)	206	4.5											658	33.2	442	22.8			1306	60.5
B-Kit NonRecurring		71.7		7.1		4.5		10.0		17.9		14.8		14.4		8.7				149.1
Kit Quantity- A-Kits	240	11.9																	240	11.9
Aircraft Integration		162.6		28.2		40.6		28.4		31.7		40.7		40.1		40.6				412.9
ECP (B-Kit HW)		0.7		7.0		0.4		0.4		0.4		0.4		0.5		0.5				10.3
ECP (B-Kit SW)		6.7		1.2		3.4		3.5		3.3		3.6		3.7		3.8				29.2
Data		1.8		0.2		0.2		0.2		0.2		0.2		0.2		0.2				3.2
Systems Engineering		4.5		3.1		3.4		3.3		3.4		3.6		4.0		3.9				29.2
Systems Test and Evaluation		2.6		0.1		0.3		0.3		0.3		0.4		0.4		0.4				4.8
Fielding/Training		5.8		0.5		1.3		1.3		1.3		1.5		1.8		1.7				15.2
Other-PM Admin		16.6		1.3		1.8		1.5		1.3		2.1		2.8		2.5				29.9
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		321.0		50.9		61.8		54.1		65.6		73.5		107.6		91.5		0.0		826.0

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Aviation Tactical Communication Systems [MOD 5] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D, CH-47F, UH/HH-60M, Special Operations Aircraft (SOA)

DESCRIPTION / JUSTIFICATION:

Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure Alt Comms A-Kits and B-Kits to meet minimum acceptable near-term communication requirements as defined by the U.S. Army Aviation Warfighting Center (USAAWC) due to delays in the JTRS program. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. B-Kit hardware is procured through existing Communications Electronics Command (CECOM) contracts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform using funds in this budget line and installed 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. B-Kit unit costs vary based on platform configuration. No installation schedule due to A and B-Kits being installed on the production line.

FY08 procures Alt Comms A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M, and SOA. An Alt Comms suite of aviation radios comprises a standard configuration of non-developmental and commercially available off-the-shelf equipment. The standard configuration consists of 2 each ARC-201D SINCGARS, an Improved Frequency Modulation (IFM) Power Amplifier (two IFM's for CH-47F), and a Multi Mode Aviation Radio Suite of ARC-231 sets.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Alt Comms is a non-developmental program in the production and deployment phase.

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity - B-Kit (ARC-231/Sets)	239	22.8	130	10.8	145	13.4	132	12.6	149	15.2	154	15.2	156	15.5	147	14.3			1252	119.8
Kit Quantity - B-Kit (ARC-201D)	548	13.5	180	6.1	202	7.0	216	7.8	280	10.1	294	10.8	296	11.2	294	12.3			2310	78.8
Kit Quantity - B-Kit (SINCGARS/IFM)	317	6.3	120	2.6	142	3.2	128	2.9	136	3.2	126	3.1	128	3.4	138	3.8			1235	28.5
Kit Quantity - A-Kit			126	16.4	133	16.8	124	15.8	140	18.3	147	19.6	148	20.2	294	42.8			1112	149.9
ECP				13.4		13.0		16.5		40.6		25.7		28.0		18.8				156.0
System Engineering		6.1		3.0		3.2		3.3		3.6		3.7		3.9		3.4				30.2
System Test & Evaluation				1.7		1.8		1.8		1.9		2.0		2.1		1.5				12.8
Fielding/Training				1.0		1.0		1.0		1.0		1.0		1.0		1.1				7.1
Other - PM Admin		2.7		2.8		3.1		3.2		4.9		4.3		4.5		5.2				30.7
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		51.4		57.8		62.5		64.9		98.8		85.4		89.8		103.2		0.0		613.8

INDIVIDUAL MODIFICATION Date: February 2007

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

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

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. Unit costs vary by aircraft platform.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

MFOQA is a non-developmental program and is OSD directed to equip rotary wing aircraft with diagnostic and prognostic systems.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs		74	24	24		70	24	28		70	24	26		70	24	20		70	24	16	
Outputs		54	44	12	12	50	44	16	12	50	44	14	12	50	44	10	10	50	44	16	

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		588
Outputs																		588

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 1 months

Contract Dates:	FY 2008 - Oct 07	FY 2009 - Oct 08	FY 2010 - Oct 09
Delivery Dates:	FY 2008 - Nov 07	FY 2009 - Nov 08	FY 2010 - Nov 09

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity B-Kits			122	6.5	122	6.5	120	6.6	114	6.6	110	6.7							588	32.9
Kit Quantity A-Kits			122	4.2	122	4.3	120	4.3	114	4.3	110	4.3							588	21.4
Fielding																				
Other-PM Admin				2.1		1.8		1.6		1.7		1.6								8.8
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 Equip -- Kits			122	2.2															122	2.2
FY 2008 Equip -- Kits					122	2.4													122	2.4
FY 2009 Equip -- Kits							120	2.5											120	2.5
FY 2010 Equip -- Kits									114	2.4									114	2.4
FY 2011 Equip -- Kits											110	2.4							110	2.4
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	122	2.2	122	2.4	120	2.5	114	2.4	110	2.4	0	0.0	0	0.0	0	0.0	588	11.9
Total Procurement Cost		0.0		15.0		15.0		15.0		15.0		15.0		0.0		0.0		0.0		75.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	185.5	31.8	31.5	53.1	79.8	105.9	103.6	109.0	89.0		789.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	185.5	31.8	31.5	53.1	79.8	105.9	103.6	109.0	89.0		789.2
Initial Spares											
Total Proc Cost	185.5	31.8	31.5	53.1	79.8	105.9	103.6	109.0	89.0		789.2
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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Fixed Wing Aircraft (AA0703)		9407			8084			9559			8634		
Rotary Wing Aircraft (AA0704)		22370			23454			43512			71207		
Total:		**31777**			**31538**			**53071**			**79841**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	101.0	9.4	8.1	9.6	8.6	13.6	13.6	14.0	14.0		191.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	101.0	9.4	8.1	9.6	8.6	13.6	13.6	14.0	14.0		191.8
Initial Spares											
Total Proc Cost	101.0	9.4	8.1	9.6	8.6	13.6	13.6	14.0	14.0		191.8
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 2008 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 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Global Air Traffic Management - FW											
GATM-FW	Operational	110.3	8.1	9.6	8.6	13.6	13.6	14.0	14.0	0.0	191.8
Totals		110.3	8.1	9.6	8.6	13.6	13.6	14.0	14.0	0.0	191.8

INDIVIDUAL MODIFICATION Date: February 2007

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 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	121			3	3			23	22			4	4			11	10			5	4
Outputs	115	6			3	3			23	22			4	4			11	10			5

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			19	19			31	30										309
Outputs	4			19	19			31	30									309

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits	121	71.3	6	5.6	45	6.7	8	5.9	21	9.5	9	9.5	38	9.7	61	9.7			309	127.9
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data		0.4		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.1
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits	121	38.6																	121	38.6
FY 2007 Equip -- Kits			6	2.4															6	2.4
FY 2008 Equip -- Kits					45	2.8													45	2.8
FY 2009 Equip -- Kits							8	2.6											8	2.6
FY 2010 Equip -- Kits									21	4.0									21	4.0
FY 2011 Equip -- Kits											9	4.0							9	4.0
FY 2012 Equip -- Kits													38	4.2					38	4.2
FY 2013 Equip -- Kits															61	4.2			61	4.2
TC Equip- Kits																				
Total Installment	121	38.6	6	2.4	45	2.8	8	2.6	21	4.0	9	4.0	38	4.2	61	4.2	0	0.0	309	62.8
Total Procurement Cost		110.3		8.1		9.6		8.6		13.6		13.6		14.0		14.0		0.0		191.8

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	84.5	22.4	23.5	43.5	71.2	92.4	90.0	95.0	75.0		597.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	84.5	22.4	23.5	43.5	71.2	92.4	90.0	95.0	75.0		597.4
Initial Spares											
Total Proc Cost	84.5	22.4	23.5	43.5	71.2	92.4	90.0	95.0	75.0		597.4
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 Mode S Identification Friend or Foe (IFF) transponder for Mode 5 capability.

Justification:
FY08 procures and installs APX-123 B-Kits and A-Kits for the AH-64D, CH-47D, UH-60A/L/M, and Special Operations Aircraft (SOA) which will allow Rotary Wing aircraft to meet near-term GATM requirements and Mode 5 capability. Procures and installs APX-118 B-Kits and A-Kits for platforms not migrating to Mode 5, and APX-118 Mode 5 retrofit kits for previously fielded Mode S transponders. Europe mandates a Mode S transponder for all flights after March 2009 and continues expansion of 8.33 kHz VHF-AM controlled airspace to the ground in high volume traffic areas in FY09 and beyond. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates unless the necessary Mode S upgrades are made. The Mode S transponder impacts 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. Procures and installs B-Kits and UH-60A/L A-Kits and completes integration on the CH-47D to meet the 8.33 KHZ channel spacing communication requirement. 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 2007

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	2006 & PR	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Global Air Traffic Management - RW											
GATM-RW	Unclassified	106.9	23.5	43.5	71.2	92.4	90.0	95.0	75.0	0.0	597.5
Totals		106.9	23.5	43.5	71.2	92.4	90.0	95.0	75.0	0.0	597.5

INDIVIDUAL MODIFICATION Date: February 2007

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:

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. 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 Mode S Identification Friend or Foe (IFF) transponder for Mode 5 capability.

FY08 procures and installs APX-123 B-Kits and A-Kits for the AH-64D, CH-47D, UH-60A/L/M, and Special Operations Aircraft (SOA) which will allow Rotary Wing aircraft to meet near-term GATM requirements and Mode 5 capability. Procures and installs APX-118 B-Kits and A-Kits for platforms not migrating to Mode 5, and APX-118 Mode 5 retrofit kits for previously fielded Mode S transponders. Procures and installs B-Kits and UH-60A/L A-Kits and completes integration on the CH-47D to meet the 8.33 KHZ channel spacing requirement. 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.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

A-Kits and B-Kits were initially procured in FY02 to address a March 03 Mode S Mandate in Europe. That mandate has since slipped to March 2009. Began fielding the APX-118 Mode S Transponders for the UH-60 and CH-47 fleet in May 2004. Installation has progressed slower than anticipated due to lack of aircraft availability as a result of deployments. The APX-123 provides the Mode 5 capability of enhanced security and greatly improved performance over IFF Mode 4. The APX-123 reached Milestone C in July 2006. B-Kit quantities exceed A-Kit and installation quantities because: some aircraft B-Kits are being installed on the production line and the A-Kits and installs are not funded from this budget line; the APX-118 Mode 5 retrofit kits for previously fielded Mode S transponders do not require an A-Kit; and some B-Kits are for trainers and simulators. A-Kit and B-Kit unit cost and installation costs vary by platform.

Installation Schedule

	Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	904	35	35	35	35	45	47	45	47	61	58	86	76	105	120	125	130	130	130	112	110
Outputs	727	61	61	61	61	38	35	45	47	45	47	61	58	86	76	105	120	125	130	130	130

	FY 2012				FY 2013				FY 2014				FY 2015				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	113	113	50	44	46	47	47	48	47	47	37	37	35	35				3217
Outputs	112	110	113	113	50	44	46	47	47	48	47	47	37	37	35	35		3217

INDIVIDUAL MODIFICATION				Date: February 2007
METHOD OF IMPLEMENTATION:	OLR Team	ADMINISTRATIVE LEADTIME:	6 months	PRODUCTION LEADTIME: 11 months
Contract Dates:	FY 2008 - Mar 08		FY 2009 - Mar 09	FY 2010 - Mar 10
Delivery Dates:	FY 2008 - Feb 09		FY 2009 - Feb 10	FY 2010 - Feb 11

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	FY 2006 and Prior		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity - B Kits	1400	51.7	262	11.4	816	35.7	869	48.8	804	49.4	506	35.0	447	32.9	248	25.6			5352	290.5
B-Kits, Nonrecurring		2.8		2.6				2.5		9.8		14.8		23.2		16.1				71.8
Kit Quantity - A Kits	1178	5.0	108	0.5	446	4.1	513	5.5	452	5.8	187	4.5	189	4.7	144	4.5			3217	34.6
Aircraft Integration - Nonrecurring		14.9		3.6		0.1		3.8		12.0		19.2		19.4		16.1				89.1
ECP		1.7		0.8		0.4		1.0		1.5		1.5		1.5		1.5				9.9
Data		3.3		0.4		0.4		0.7		0.8		0.8		0.7		0.7				7.8
Training Equipment		1.1		0.3		0.3		0.5		0.8		1.2		1.2		1.2				6.6
Systems Engineering		4.8		1.7		0.4		3.0		3.0		3.1		3.1		3.1				22.2
Fielding/Training		1.4		0.4		0.3		0.5		0.6		0.6		0.7		0.7				5.2
Other PM Admin		1.2		0.5		0.4		2.2		3.9		4.4		4.2		3.5				20.3
Other		13.2																		13.2
TC Equip-Kits																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits	904	5.8																	904	5.8
FY 2006 -- Kits			140	1.3	134	0.9													274	2.2
FY 2007 Equip -- Kits					50	0.5	58	0.5											108	1.0
FY 2008 Equip -- Kits							223	2.2	223	2.2									446	4.4
FY 2009 Equip -- Kits									257	2.6	256	2.6							513	5.2
FY 2010 Equip -- Kits											226	2.3	226	2.4					452	4.7
FY 2011 Equip -- Kits													94	1.0	93	1.0			187	2.0
FY 2012 Equip -- Kits															95	1.0	94		189	1.0
FY 2013 Equip -- Kits																	144		144	
Total Installment	904	5.8	140	1.3	184	1.4	281	2.7	480	4.8	482	4.9	320	3.4	188	2.0	238	0.0	3217	26.3
Total Procurement Cost		106.9		23.5		43.5		71.2		92.4		90.0		95.0		75.0		0.0		597.5

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost		3.9	9.4	9.3	6.9	9.3	9.6	4.5	4.6		57.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1		3.9	9.4	9.3	6.9	9.3	9.6	4.5	4.6		57.6
Initial Spares											
Total Proc Cost		3.9	9.4	9.3	6.9	9.3	9.6	4.5	4.6		57.6
Flyaway U/C											
Weapon System Proc U/C											

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

Justification:
FY08 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 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		SSN AA0720; PE/Project 0604270A/665

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	516.6	7.5	29.6	48.1	57.4	70.0	68.4	73.6	76.8	607.7	1555.8
Less PY Adv Proc	11.6										11.6
Plus CY Adv Proc	11.6										11.6
Net Proc P1	516.6	7.5	29.6	48.1	57.4	70.0	68.4	73.6	76.8	607.7	1555.8
Initial Spares											
Total Proc Cost	516.6	7.5	29.6	48.1	57.4	70.0	68.4	73.6	76.8	607.7	1555.8
Flyaway U/C											
Weapon System Proc U/C											

Description:
The Aircraft Survivability Equipment (ASE) project includes ASE Laser Countermeasures, ASE Trainers, and Radio Frequency Countermeasures (RFCM). The description and justification for each project are included on the designated P-Form.

Supplemental Funding: FY06 Title IX $11.2M.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
ASE Trainers		2127			1488			1720			1992		
ASE Laser CM		5422			7072			9836			18155		
Radio Frequency CM					21040			36564			37203		
Total:		**7549**			**29600**			**48120**			**57350**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	350.7	2.1	1.5	1.7	2.0	2.1	2.2	4.0	5.0	30.6	401.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	350.7	2.1	1.5	1.7	2.0	2.1	2.2	4.0	5.0	30.6	401.9
Initial Spares											
Total Proc Cost	350.7	2.1	1.5	1.7	2.0	2.1	2.2	4.0	5.0	30.6	401.9
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 (MAST) that simulates shoulder fired weapons. MAST 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. Other MAST 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 2008 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 2007

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

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		SSN AA0720; PE/Project 0604270A/665

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	166.0	5.4	7.1	9.8	18.2	10.7	11.8	65.0	67.5	577.1	938.5
Less PY Adv Proc	11.6										11.6
Plus CY Adv Proc	11.6										11.6
Net Proc P1	166.0	5.4	7.1	9.8	18.2	10.7	11.8	65.0	67.5	577.1	938.5
Initial Spares											
Total Proc Cost	166.0	5.4	7.1	9.8	18.2	10.7	11.8	65.0	67.5	577.1	938.5
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 2008 procures AN/AVR-2B systems for selected aircraft in support of required operational capabilities.

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 Laser CM (AZ3508)	Weapon System Type:	Date: February 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
AN/AVR-2B Laser Warning													
AN/AVR-2B System Acquisition		5022	40	126	5152	32	161	6535	54	121	10540	85	124
Engineering Change Proposals													
Non-Recurring Production													
Program Management		400			400			500			921		
System Engineering/Logistics					1520			1817			4878		
Spares								984			1816		
Total:		**5422**			**7072**			**9836**			**18155**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army/ 4/ Support equipment and facilities		ASE Laser 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 $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/AVR-2B System Acquisition										
FY 2006	LSI Shrewsbury,NJ	C/FFP	CECOM, Ft. Monmouth, NJ	Jan 06	Oct 06	40	126	Yes		
FY 2007	Goodrich Danbury, CT	C/FFP	CECOM, Ft. Monmouth, NJ	Feb 07	Jan 08	32	161	Yes		
FY 2008	Goodrich Danbury, CT	C/FFP	CECOM, Ft. Monmouth, NJ	Jan 08	Oct 08	54	121	Yes		
FY 2009	Goodrich Danbury, CT	C/FFP	CECOM, Ft. Monmouth, NJ	Feb 09	Jan 10	85	124	Yes		

REMARKS: FY2007 unit cost is for 6 sensor units, FY2008 & FY2009 are for 4 sensor units.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE Laser CM (AZ3508)

Date:
February 2007

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 06	A	40	0	40				A										5	5	5	5	5	5	5	5				0
	1	FY 07	A	32	0	32																	A							32
	1	FY 08	A	54	0	54																								54
	1	FY 09	A	85	0	85																								85
Total				211		211														5	5	5	5	5	5	5	5				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+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Goodrich, Danbury, CT	5	20	30		1	Initial	0	1	9	10	
							Reorder	0	1	9	10	
2	LSI, Shrewsbury,NJ	5	20	30		2	Initial	0	7	9	16	
							Reorder	0	1	9	10	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE Laser CM (AZ3508)

Date:
February 2007

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 06	A	40	40																									0
	1	FY 07	A	32	0	32				5	5	5	5	5	5	2														0
	1	FY 08	A	54	0	54				A									5	5	5	5	5	5	5	5	5	5	4		0
	1	FY 09	A	85	0	85																	A								85
Total				211	40	171				5	5	5	5	5	5	2			5	5	5	5	5	5	5	5	5	5	4		85
							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	Goodrich, Danbury, CT	5	20	30	
2	LSI, Shrewsbury,NJ	5	20	30	

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

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE Laser CM (AZ3508)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
										Calendar Year 10														Calendar Year 11								
							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 06	A	40	40																									0
	1	FY 07	A	32	32																									0
	1	FY 08	A	54	54																									0
	1	FY 09	A	85	0	85				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					0
Total				211	126	85				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
							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	Goodrich, Danbury, CT	5	20	30	
2	LSI, Shrewsbury,NJ	5	20	30	

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

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	Radio Frequency CM (AZ3511)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		0604270A.665 A/C Surv Equip Dev

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost			21.0	36.6	37.2	57.3	54.4	4.6	4.3		215.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1			21.0	36.6	37.2	57.3	54.4	4.6	4.3		215.4
Initial Spares											
Total Proc Cost			21.0	36.6	37.2	57.3	54.4	4.6	4.3		215.4
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 08 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: Radio Frequency CM (AZ3511)	Weapon System Type:	Date: February 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Systems Eng/Mgt								1429			1528		
Recurring Production					20552	500	41	33666	990	34	34097	983	35
Training													
Data					71			114			116		
Fielding					417			673			682		
Test and Evaluation													
Total Package Fielding											120		
Other Procurement (PDSS)								682			660		
Total:					**21040**			**36564**			**37203**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

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
Recurring Production										
FY 2007	TBD TBD	TBD	CECOM, Ft. Monmouth, NJ	Jun 07	Jul 08	500	41			
FY 2008	TBD TBD	TBD	CECOM, Ft. Monmouth, NJ	Nov 07	Jan 09	990	34			
FY 2009	TBD TBD	TDB	CECOM, Ft. Monmouth, NJ	Nov 08	Jan 10	983	35			

REMARKS:

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
Radio Frequency CM (AZ3511)

Date:
February 2007

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	
Recurring Production																														
	1	FY 06	A	0	0																									0
	1	FY 07	A	500	0	500																					A				500
	1	FY 08	A	990	0	990																									990
	1	FY 09	A	983	0	983																									983
Total				2473		2473																								2473
							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	TBD, TBD	70	80	100		1	Initial	3	4	15	19	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
Radio Frequency CM (AZ3511)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	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	
Recurring Production																														
	1	FY 06	A	0	0																									0
	1	FY 07	A	500	0	500										10	20	100	100	100	100	70									0
	1	FY 08	A	990	0	990		A														30	50	91	91	91	91	91	91	91	273
	1	FY 09	A	983	0	983														A										983
Total				2473		2473										10	20	100	100	100	100	100	50	91	91	91	91	91	91	91	1256
							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	TBD, TBD	70	80	100		1	Initial	3	4	15	19	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
Radio Frequency CM (AZ3511)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
										Calendar Year 10														Calendar Year 11								
							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 06	A	0	0																									0
	1	FY 07	A	500	500																									0
	1	FY 08	A	990	717	273	91	91	91																					0
	1	FY 09	A	983	0	983				82	82	82	82	82	82	82	82	82	82	82	81									0
Total				2473	1217	1256	91	91	91	82	82	82	82	82	82	82	82	82	82	82	81									
							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	TBD, TBD	70	80	100		1	Initial	3	4	15	19	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	458.6	440.3	304.4	365.5	437.3	333.9	254.0	227.7	223.0	1979.1	5023.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	458.6	440.3	304.4	365.5	437.3	333.9	254.0	227.7	223.0	1979.1	5023.7
Initial Spares											
Total Proc Cost	458.6	440.3	304.4	365.5	437.3	333.9	254.0	227.7	223.0	1979.1	5023.7
Flyaway U/C											
Weapon System Proc U/C											

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

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

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

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

Justification:
FY 2008/2009 procures nonrecurring engineering and recurring production of the ATIRCM/CMWS A-Kits and B-Kits.

Supplemental Funding: FY06 Title IX $69.6M.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
A Kit Recurring	B	46098	764	60	31015	347	89	49588	410	121	86916	380	229
A Kit Installation		39537			33503			32446			42175		
A Kit ATIRCM Retrofits								2278			33273		
CMWS Recurring Hardware	B	250914	700	358	72384	240	302	88175	305	289	35751	85	421
ATIRCM Recurring Hardware	B							30756	24	1282	63807	49	1302
ATIRCM B-Kit Nonrecurring		4164			55656			32754			30175		
A-Kit Integration		27830			36286			31153			34143		
ICS/Spt Eq/Trans/Training		28340			25331			19431			18992		
In House/Matrix Spt		23784			17647			14977			14870		
Program Management		6795			11584			12569			14689		
Spares		5972			16044			19775			25489		
CTR SEPM/ECO/SW Spt		6861			4953			31570			37048		
Total:		**440295**			**304403**			**365472**			**437328**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A Kit Recurring										
FY 2006	Various Various	CPFF	Various	Dec 05	Jun 06	764	60	Yes		
FY 2007	Various Various	CPFF	Various	Dec 06	May 07	347	89	Yes		
FY 2008	Various Various	CPFF	Various	Dec 07	May 08	410	121	Yes		
FY 2009	Various Various	CPFF	Various	Dec 08	May 09	380	229			
CMWS Recurring Hardware										
FY 2006	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 05	Aug 06	700	358	Yes		
FY 2007	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Aug 07	240	302	Yes		
FY 2008	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 07	Aug 08	305	289	Yes		
FY 2009	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 08	Aug 09	85	421			
ATIRCM Recurring Hardware										
FY 2008	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Jun 08	Apr 09	24	1282			
FY 2009	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Jun 09	Apr 10	49	1302			

REMARKS:

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

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	
A Kit Recurring																														
	1	FY 06	A	764	0	764															A						60	64	64	64	512
	1	FY 07	A	347	0	347																									347
	1	FY 08	A	410	0	410																									410
	1	FY 09	A	380	0	380																									380
CMWS Recurring Hardware																														
	2	FY 06	A	700	0	700			A																				58	58	584
	2	FY 07	A	240	0	240																									240
	2	FY 08	A	305	0	305																									305
	2	FY 09	A	85	0	85																									85
ATIRCM Recurring Hardware																														
	3	FY 06	A	0	0																										0
	3	FY 07	A	0	0																										0
	3	FY 08	A	24	0	24																									24
	3	FY 09	A	48	0	48																									48
Total				3303		3303																					60	64	122	122	2935
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS
Delivery period exceeds 12 months because of multiple delivery orders.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

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	
A Kit Recurring																													
	1	FY 06	A	764	252	512	64	64	64	64	64	64	64	64															0
	1	FY 07	A	347	0	347			A					28	29	29	29	29	29	29	29	29	29	29						0
	1	FY 08	A	410	0	410															A					34	34	34	34	34	240
	1	FY 09	A	380	0	380																									380
CMWS Recurring Hardware																													
	2	FY 06	A	700	116	584	58	58	58	58	58	59	59	59	58	59															0
	2	FY 07	A	240	0	240			A								20	20	20	20	20	20	20	20	20	20	20	20			0
	2	FY 08	A	305	0	305															A								26	26	253
	2	FY 09	A	85	0	85																									85
ATIRCM Recurring Hardware																													
	3	FY 06	A	0	0																										0
	3	FY 07	A	0	0																										0
	3	FY 08	A	24	0	24																					A				24
	3	FY 09	A	48	0	48																									48
Total				3303	368	2935	122	122	122	122	122	123	123	151	87	88	49	49	49	49	49	49	49	49	49	54	54	54	60	60	1030
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS
Production rates are yearly rates.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

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	
A Kit Recurring																														
	1	FY 06	A	764	764																									0
	1	FY 07	A	347	347																									0
	1	FY 08	A	410	170	240	34	34	34	34	34	35	35																	0
	1	FY 09	A	380	0	380			A					32	32	32	32	32	32	32	32	31	31	31	31						0
CMWS Recurring Hardware																														
	2	FY 06	A	700	700																									0
	2	FY 07	A	240	240																									0
	2	FY 08	A	305	52	253	26	26	26	26	25	25	25	25	25	24														0
	2	FY 09	A	85	0	85			A								28	28	29												0
ATIRCM Recurring Hardware																														
	3	FY 06	A	0	0																									0
	3	FY 07	A	0	0																									0
	3	FY 08	A	24	0	24							2	2	2	2	2	2	2	2	2	2	2	2						0
	3	FY 09	A	48	0	48									A										4	4	4	4	4	4	24
Total				3303	2273	1030	60	60	60	60	59	60	62	59	59	58	62	62	63	34	34	33	33	33	35	4	4	4	4	4	24
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11												Fiscal Year 12											Later
							Calendar Year 11												Calendar Year 12											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit Recurring																														
	1	FY 06	A	764	764																									0
	1	FY 07	A	347	347																									0
	1	FY 08	A	410	410																									0
	1	FY 09	A	380	380																									0
CMWS Recurring Hardware																														
	2	FY 06	A	700	700																									0
	2	FY 07	A	240	240																									0
	2	FY 08	A	305	305																									0
	2	FY 09	A	85	85																									0
ATIRCM Recurring Hardware																														
	3	FY 06	A	0	0																									0
	3	FY 07	A	0	0																									0
	3	FY 08	A	24	24																									0
	3	FY 09	A	48	24	24	4	4	4	4	4	4																		0
Total				3303	3279	24	4	4	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	Various, Various	18	200	800	
2	BAE Systems (CMWS), Nashua, NH	48	200	480	
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240	

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

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	117.6	27.7	40.2								185.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	117.6	27.7	40.2								185.5
Initial Spares											
Total Proc Cost	117.6	27.7	40.2								185.5
Flyaway U/C											
Weapon System Proc U/C											

Description:

This project funds the procurement of an Airborne Battle Command On The Move System. Provides the maneuver commander with a highly mobile, self-contained and reliable airborne digital command post with command, control, communications, and computers (C4) systems needed to command and control in joint, interagency, and multi-national environments. Tasks in this project support procurement efforts in the Low Rate Initial Production (LRIP) phase of this system. The Army Airborne Command and Control System (A2C2S) supports the Brigade Combat Teams, Division, Corps and Theater Army Commanders. The A2C2S enables Commanders and their staffs, to traverse the battle space rapidly - maintaining situational awareness of all battlefield systems and maintaining communications. Using Battle Command Software coupled with line-of-sight and non-line-of-sight voice and data communications the A2C2S provides information superiority through a common operational picture. This system is critical to enhance the Battle Command Group's ability to effectively perform combat operations and serve as a force multiplier in the Future Force. Due to new technology and requirements to be compatible, design integration will be required to retrofit existing A2C2S systems. A2C2S supports the Chief's Vision and the modularity concept of the Army Over Time. In addition, A2C2S is the airborne first-responder for Homeland Defense and disaster relief by providing a robust communications platform for emergency response coordinators of air and ground operations. It will support disaster coordination between state, federal, civilian and military organizations.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
A2C2S Integration/CFE/GFE		18000	5	3600	11298	2	5649						
Project Mgt/Production Eng		8461			8461								
Fielding (NET, Spares)		1217			2639								
Interim Contract Support													
System Refresh/Technology Insertion					14182								
Inmarsat Integration/Retrofit					3640								
CPOF/SIS upgrade													
Total:		**27678**			**40220**								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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 $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A2C2S Integration/CFE/GFE										
FY 2006	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Oct 05	Mar 06	5	3600			N/A
FY 2007	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Jan 07	Mar 07	2	5649			N/A

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2925										2925
Gross Cost	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
Initial Spares											
Total Proc Cost	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
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 2007

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

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2925										2925
Gross Cost	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
Initial Spares											
Total Proc Cost	467.5	3.3	5.0	5.1	5.1	5.1	5.1				496.1
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:
FY2008 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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
K35601 ANVIS/HUD													
ANVIS		2803	497	6	4247	753	6	4023	713	6	4023	713	6
Engineering Support		176			350			353			353		
Project Management Admin		248			181			405			405		
Engineering Change Orders					58			58			58		
Fielding		57			207			226			226		
Total:		**3284**			**5043**			**5065**			**5065**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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 2006	ITT ROANOKE, VA	C/FP	CECOM	Jan 06	Dec 07	497	5.640	Yes		
FY 2007	ITT ROANOKE, VA	C/FP	CECOM	Dec 06	Dec 07	753	5.640	Yes		
FY 2008	ITT ROANOKE, VA	C/FP	CECOM	Dec 07	Dec 08	713	5.640	Yes		
FY 2009	ITT ROANOKE, VA	C/FP	CECOM	Dec 08	Dec 09	713	5.640	Yes		

REMARKS:

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ANVIS (K35601)

Date:
February 2007

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	
K35601 ANVIS/HUD																													
	1	FY 06	A	497	0	497				A											40	40	40	62	40	40	40	40	40	40	75
	1	FY 07	A	753	0	753															A										753
	1	FY 08	A	713	0	713																									713
	1	FY 09	A	713	0	713																									713
Total				2676		2676															40	40	40	62	40	40	40	40	40	40	2254
							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	11	13	
							Reorder	1	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ANVIS (K35601)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	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	
K35601 ANVIS/HUD																													
	1	FY 06	A	497	422	75	40	35																					0
	1	FY 07	A	753	0	753			60	60	60	60	60	60	60	60	60	70	70	73										0
	1	FY 08	A	713	0	713			A												60	60	60	60	60	59	59	59	59	59	118
	1	FY 09	A	713	0	713															A									713
Total				2676	422	2254	40	35	60	60	60	60	60	60	60	60	60	70	70	73	60	60	60	60	60	59	59	59	59	59	831
							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	11	13	
							Reorder	1	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ANVIS (K35601)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
										Calendar Year 10														Calendar Year 11								
							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 06	A	497	497																									0
	1	FY 07	A	753	753																									0
	1	FY 08	A	713	595	118	59	59																						0
	1	FY 09	A	713	0	713			60	60	60	60	60	59	59	59	59	59	59	59										0
Total				2676	1845	831	59	59	60	60	60	60	60	59	59	59	59	59	59	59										
							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	11	13	
							Reorder	1	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	COMMON GROUND EQUIPMENT (AZ3100)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		63801/B32 63801/B33

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	495.1	61.3	59.6	80.2	104.7	87.2	65.5	71.9	99.5		1125.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	495.1	61.3	59.6	80.2	104.7	87.2	65.5	71.9	99.5		1125.0
Initial Spares											
Total Proc Cost	495.1	61.3	59.6	80.2	104.7	87.2	65.5	71.9	99.5		1125.0
Flyaway U/C											
Weapon System Proc U/C											

Description:
Provides various types of ground support equipment.

Supplemental Funding: FY07 Title IX $2.2M.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		63801/B32 63801/B33

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	315.6	61.3	59.6	80.2	104.7	87.2	65.5	68.7	96.3		939.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	315.6	61.3	59.6	80.2	104.7	87.2	65.5	68.7	96.3		939.1
Initial Spares											
Total Proc Cost	315.6	61.3	59.6	80.2	104.7	87.2	65.5	68.7	96.3		939.1
Flyaway U/C											
Weapon System Proc U/C											

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

Justification:
FY 08 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 FY 08. The Battle Damage Assessment Repair (BDAR) system will provide aviation maintenance organizations an expeditious means for combat damage assessment, deferment, and/or rapid repair for all Army helicopters. Aviation Intermediate Maintenance (AVIM) Shop Set complexes provide a transportable aviation intermediate and limited depot level maintenance capability in force projection or contingency operations. Aviation Ground Power Units (AGPUs) will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for electrical servicing of the Apache Longbow (AH-64D). The Generic Aircraft Nitrogen Generator (GANG) provides 95.5% pure nitrogen to service/adjust aircraft accumulators, main rotor blades, landing gear struts and tires and also refills nitrogen bottles used at all levels of aviation maintenance. The Non-Destructive Test Equipment (NDTE) is a set of four electronic test instruments that inspect aircraft components and structures for defects, corrosion, or the presence of foreign objects without complete disassembly or removal of component from the aircraft. The Standard Aircraft Towing System (SATS) will be used to reposition fixed-wing and rotary-wing aircraft as well as AGSE in-and-around hangars and maintenance areas and will standardize the Army's aviation tug fleet along with reducing the logistics footprint through the use of standardized repair parts. The SATS provide a multipurpose support vehicle to complement AGSE modularization concept. Aviation - Sets, Kits, Outfits and Tools (A-SKOTS) provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft. The Shop Equipment Contact Maintenance (SECM) will provide the combat maintainer a contact maintenance vehicle with containerized tools/spares/modules for repair capability at the aircraft in support of the Army's Two Level Maintenance Concept. Supplemental Funding: FY07 Title IX $2.2M.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Nondestructive Test Equipment (NDTE)					5126			6540			6540		
Unit Maint Aerial Recovery Kit (UMARK)		2071											
Aviation Vibration Analyzer (AVA)					816								
Aviation Ground Power Unit (AGPU)		17348			9310			13200			13200		
Battle Damage Assess Repair Kit (BDAR)		13147			8756			5515			7085		
Standard Aircraft Towing System (SATS)					7775			17811			18020		
Shop Equipment Contact Maint (SECM)								762			13512		
Avn-Sets, Kits, Outfits, Tools (A-SKOT)		12111			3791			11462			28385		
Aviation Maint Fall Protection Platforms		1400			2900								
Avn Intermediate Maint (AVIM) Shop Sets		9124			16088			16475			11911		
Generic Aircraft Nitro Generator (GANG)					1360			4250			595		
Digital Aircraft Weight Scales (DAWS)		2992			384								
Program Management Support		3006			2976			3931			5130		
Fielding		25			45			45			85		
Test and Eval (T&E)		125			225			230			230		
Subtotal		**61349**			**59552**			**80221**			**104693**		
Total:		**61349**			**59552**			**80221**			**104693**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		RDTE 0603801(DB45), 0604801(DC45), 0603827(S51), 0604601(S61)

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	194.6	31.8	40.6	42.7	39.4	57.4	42.8	138.6	125.6		713.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	194.6	31.8	40.6	42.7	39.4	57.4	42.8	138.6	125.6		713.7
Initial Spares											
Total Proc Cost	194.6	31.8	40.6	42.7	39.4	57.4	42.8	138.6	125.6		713.7
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 2008 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 procurement of the unencrypted 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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Hardware													
-													
Air Warrior Block 1 Ensembles		6376	3100	2.1	9281	4900	1.9	8159	4900	1.7	5986	3920	1.5
Air Warrior A Kits		5517	388	14.2	3302	250	13.2	4458	356	12.5	4364	348	12.5
A Kit Installs		2209			2499			2956			2863		
Air Warrior Microclimate Cooling Garment		446	1710	0.3	292	1100	0.3	701	2501	0.3	701	2501	0.3
Air Warrior Microclimate Cooling Units		5118	651	7.9	6984	919	7.6	7315	1000	7.3	7040	978	7.2
-													
Block 2													
Electronic Data Mgr (EDM)		897	120	7.5	2720	310	8.8	4755	558	8.5	4030	479	8.4
EDM A Kits		1793	375	4.8	96	25	3.8	2112	558	3.8	2427	479	5.1
Acft Wireless Intercom Sys (AWIS)					251	180	1.4	48	36	1.3	48	36	1.3
AWIS A Kits					472	60	7.9	90	12	7.5	117	15	7.8
EDM/AWIS Installs					1158			1374			1269		
Portable Oxygen System					2000	166	12.0						
-													
Cockpit Air Bags (CABS) System & Install													
CABS A Kits		160	32	5.0									
CABS B Kits		680	32	21.3									
CABS Installs		177											
CABS B-Kit Retrofit					628	196	3.2						
-													
Total Hardware Costs		**23373**			**29683**			**31968**			**28845**		
Other Costs													
Manuals		70			110			115			117		
New Equipment Training		195			200			215			220		
Initial Spares & Repair Parts		560			522			500			505		
Support Equipment		200			210			215			217		
Systems Test and Evaluation		157			800			807			810		
Total Other Costs		**1182**			**1842**			**1852**			**1869**		
Nonrecurring Costs													

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Nonrecurring Engineering		468			892			902			600		
Total Nonrecurring Costs		**468**			**892**			**902**			**600**		
Air Warrior ECP		350			585			605			684		
Systems Integration Engineering		2186			2299			2307			2314		
Project Management Admin		3035			3100			3216			3225		
Total ECP, Sys Int, & Admin Costs		**5571**			**5984**			**6128**			**6223**		
Support Costs													
Fielding		800			825			835			845		
Contract Logistics Support		426			1000			1042			1048		
Other													
Other Costs					406								
Total:		**31820**			**40632**			**42727**			**39430**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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
Air Warrior Block 1 Ensembles										
FY 2006	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 06	Apr 06	3100	2.1	Yes		Feb 03
FY 2007	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Dec 06	Feb 07	4900	1.9	Yes		Feb 03
FY 2008	TBS TBS	C/Option	Redstone Arsenal, AL	Jan 08	Apr 08	4900	1.7	Yes		Feb 03
FY 2009	TBS TBS	C/Option	Redstone Arsenal, AL	Jan 09	Apr 09	3920	1.5	Yes		Feb 03
Air Warrior A Kits										
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	250	13.2	Yes		Dec 02
FY 2008	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 07	Apr 08	356	12.5	Yes		Dec 02
FY 2009	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 08	Apr 09	348	12.5	Yes		Dec 02
Air Warrior Microclimate Cooling Garment										
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	Nov 06	Mar 07	1100	0.3	Yes		Jan 05
FY 2008	Med Eng, Inc Ogdensburg, NY	C/Option	Redstone Arsenal, AL	Nov 07	Mar 08	2501	0.3	Yes		Jan 05
FY 2009	Med Eng, Inc Ogdensburg, NY	C/Option	Redstone Arsenal, AL	Nov 08	Mar 09	2501	0.3	Yes		Jan 05
Air Warrior Microclimate Cooling Units										
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	Mar 07	919	7.6	Yes		Aug 02
FY 2008	TBS TBS	C/Option	Redstone Arsenal, AL	Dec 07	Mar 08	1000	7.3	Yes		Aug 02
FY 2009	TBS	C/Option	Redstone Arsenal, AL	Dec 08	Mar 09	978	7.2	Yes		Aug 02

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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
	TBS									
Electronic Data Mgr (EDM)										
FY 2006	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Jan 06	Apr 06	120	7.5	Yes		Jan 05
FY 2007	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Dec 06	Apr 07	310	8.8	Yes		Jan 05
FY 2008	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Dec 07	Apr 08	558	8.5	Yes		Jan 05
FY 2009	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Dec 08	Apr 09	479	8.4	Yes		Jan 05
EDM A Kits										
FY 2006	JVYS Huntsville, AL	C/FP	Redstone Arsenal, AL	Dec 05	Jan 06	375	4.8	Yes		Oct 05
FY 2007	JVYS Huntsville, AL	C/FP	Redstone Arsenal, AL	Jan 07	May 07	25	3.8	Yes		Oct 05
FY 2008	JVYS Huntsville, AL	C/FP	Redstone Arsenal, AL	Jan 08	May 08	558	3.8	Yes		Oct 05
FY 2009	JVYS Huntsville, AL	C/FP	Redstone Arsenal, AL	Jan 09	May 09	479	5.1	Yes		Oct 05
Acft Wireless Intercom Sys (AWIS)										
FY 2007	TELEPHONICS Farmingdale, NY	C/FP	Redstone Arsenal, AL	Jun 07	Oct 07	180	1.4	Yes		Sep 05
FY 2008	TELEPHONICS Farmingdale, NY	C/FP	Redstone Arsenal, AL	Jun 08	Oct 08	36	1.3	Yes		Sep 05
FY 2009	TELEPHONICS Farmingdale, NY	C/FP	Redstone Arsenal, AL	Jun 09	Oct 09	36	1.3	Yes		Sep 05
AWIS A Kits										
FY 2007	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Apr 07	Aug 07	60	7.9	Yes		
FY 2008	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Apr 08	Aug 08	12	7.5	Yes		
FY 2009	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Apr 09	Aug 09	15	7.8	Yes		
Portable Oxygen System										
FY 2007	TBS TBS	C/FFP	TBS	May 07	Aug 07	166	12.0	No		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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
CABS A Kits										
FY 2006	Westwind Corporation Huntsville, AL	C/FFP	Redstone Arsenal, AL	Jun 08	Oct 08	32	5.0	Yes		May 02
CABS B Kits										
FY 2006	Simula, Inc. Phoenix, AZ	SS/FFP	Ft Eustis, VA	Jul 08	Jan 09	32	21.3	Yes		May 02
CABS B-Kit Retrofit										
FY 2007	Simula, Inc. Phoenix, AZ	SS/FFP	Ft. Eustis, VA	Sep 07	Oct 07	196	3.2	No		

REMARKS: 1. Unit cost of Air Warrior Block 1 Ensembles is determined by the mix of items that make up a complete ensemble. FY06 and FY07 includes Congressional Plus-up for 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. Increases in FY09 unit cost for EDM A Kits is caused by procurement of Dual EDM Retrofit A Kits.
4. Procurement of CABS A and B Kits will resume following sensor engineering changes.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
Air Warrior Block 1 Ensembles																													
	1	FY 06	A	3100	0	3100				A			370	520	520	520	520	520	130											0
	1	FY 07	A	4900	0	4900															A		520	520	520	520	520	520	520	520	740
	1	FY 08	A	4900	0	4900																									4900
	1	FY 09	A	3920	0	3920																									3920
Air Warrior A Kits																													
	2	FY 06	A	388	0	388			A				20	46	62	60	60	60	60	20											0
	2	FY 07	A	250	0	250															A				60	60	60	60	10		0
	2	FY 08	A	356	0	356																									356
	2	FY 09	A	348	0	348																									348
Air Warrior Microclimate Cooling Garment																													
	5	FY 06	A	1710	0	1710					A			300	300	300	300	300	210											0
	5	FY 07	A	1100	0	1100														A				300	300	300	200			0
	5	FY 08	A	2501	0	2501																									2501
	5	FY 09	A	2501	0	2501																									2501
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
Air Warrior Microclimate Cooling Units																													
	3	FY 06	A	651	0	651				A					51	80	80	80	80	80	80	80	40							0
	3	FY 07	A	919	0	919															A			80	80	80	80	80	80	80	359
	3	FY 08	A	1000	0	1000																									1000
	3	FY 09	A	978	0	978																									978
Electronic Data Mgr (EDM)																															
	4	FY 06	A	120	0	120				A			50	50	20																0
	4	FY 07	A	310	0	310															A				50	50	50	50	50	50	10
	4	FY 08	A	558	0	558																									558
	4	FY 09	A	479	0	479																									479
EDM A Kits																															
	6	FY 06	A	375	0	375			A	64	64	64	94	89																	0
	6	FY 07	A	25	0	25																A			25						0
	6	FY 08	A	558	0	558																									558
	6	FY 09	A	479	0	479																									479
Acft Wireless Intercom Sys (AWIS)																															
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
	7	FY 07	A	180	0	180																					A				180
	7	FY 08	A	36	0	36																									36
	7	FY 09	A	36	0	36																									36
AWIS A Kits																															
	2	FY 07	A	60	0	60																			A				20	20	20
	2	FY 08	A	12	0	12																									12
	2	FY 09	A	15	0	15																									15
Portable Oxygen System																															
	8	FY 07	A	166	0	166																				A			20	20	126
CABS A Kits																															
	2	FY 06	A	32	0	32																									32
CABS B Kits																															
	1	FY 06	A	32	0	32																									32
CABS B-Kit Retrofit																															
	1	FY 07	A	196	0	196																								A	196
Total				33191		33191				64	64	64	534	1005	953	960	960	960	480	100	80	80	560	900	1010	1035	910	710	700	690	20372
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
Air Warrior Block 1 Ensembles																														
	1	FY 06	A	3100	3100																									0
	1	FY 07	A	4900	4160	740	520	220																						0
	1	FY 08	A	4900	0	4900				A			520	520	520	520	520	520	520	520	520	220									0
	1	FY 09	A	3920	0	3920																A			520	520	520	520	520	520	800
Air Warrior A Kits																														
	2	FY 06	A	388	388																									0
	2	FY 07	A	250	250																									0
	2	FY 08	A	356	0	356			A				60	60	60	60	60	56													0
	2	FY 09	A	348	0	348															A				60	60	60	60	60	48	0
Air Warrior Microclimate Cooling Garment																														
	5	FY 06	A	1710	1710																									0
	5	FY 07	A	1100	1100																									0
	5	FY 08	A	2501	0	2501		A				300	300	300	300	300	300	300	300	101											0
	5	FY 09	A	2501	0	2501														A				300	300	300	300	300	300	300	401
Air Warrior Microclimate Cooling Units																														
	3	FY 06	A	651	651																									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+
1	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
	3	FY 07	A	919	560	359	80	80	80	80	39																			0
	3	FY 08	A	1000	0	1000			A			80	80	80	80	80	80	80	80	80	80	80	80	40							0
	3	FY 09	A	978	0	978															A			80	80	80	80	80	80	80	418
Electronic Data Mgr (EDM)																															
	4	FY 06	A	120	120																										0
	4	FY 07	A	310	300	10	10																								0
	4	FY 08	A	558	0	558			A				50	50	50	50	50	50	50	50	50	50	50	8							0
	4	FY 09	A	479	0	479															A				50	50	50	50	50	50	179
EDM A Kits																															
	6	FY 06	A	375	375																										0
	6	FY 07	A	25	25																										0
	6	FY 08	A	558	0	558				A				64	64	64	64	64	64	64	64	64	46								0
	6	FY 09	A	479	0	479																	A				64	64	64	64	64	159
Acft Wireless Intercom Sys (AWIS)																															
	7	FY 07	A	180	0	180	25	25	25	25	25	25	25	5																	0
	7	FY 08	A	36	0	36									A				25	11											0
	7	FY 09	A	36	0	36																						A			36
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

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	
AWIS A Kits																														
	2	FY 07	A	60	40	20	20																							0
	2	FY 08	A	12	0	12							A				12													0
	2	FY 09	A	15	0	15																			A				15	0
Portable Oxygen System																														
	8	FY 07	A	166	40	126	20	20	20	20	20	20	6																	0
CABS A Kits																														
	2	FY 06	A	32	0	32									A				8	8	8	8								0
CABS B Kits																														
	1	FY 06	A	32	0	32										A						8	8	8	8					0
CABS B-Kit Retrofit																														
	1	FY 07	A	196	0	196	20	20	20	20	20	20	20	20	20	16														0
Total				33191	12819	20372	695	365	145	145	104	445	1061	1099	1094	1090	1086	1070	1047	834	722	412	138	436	1018	1074	1074	1074	1089	1062	1993
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
										Calendar Year 10														Calendar Year 11								
							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																														
	1	FY 06	A	3100	3100																									0
	1	FY 07	A	4900	4900																									0
	1	FY 08	A	4900	4900																									0
	1	FY 09	A	3920	3120	800	520	280																						0
Air Warrior A Kits																														
	2	FY 06	A	388	388																									0
	2	FY 07	A	250	250																									0
	2	FY 08	A	356	356																									0
	2	FY 09	A	348	348																									0
Air Warrior Microclimate Cooling Garment																														
	5	FY 06	A	1710	1710																									0
	5	FY 07	A	1100	1100																									0
	5	FY 08	A	2501	2501																									0
	5	FY 09	A	2501	2100	401	300	101																						0
Air Warrior Microclimate Cooling Units																														
	3	FY 06	A	651	651																									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+
1	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
							Calendar Year 10												Calendar Year 11											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
	3	FY 07	A	919	919																									0
	3	FY 08	A	1000	1000																									0
	3	FY 09	A	978	560	418	80	80	80	80	80	18																		0
Electronic Data Mgr (EDM)																														
	4	FY 06	A	120	120																									0
	4	FY 07	A	310	310																									0
	4	FY 08	A	558	558																									0
	4	FY 09	A	479	300	179	50	50	50	29																				0
EDM A Kits																														
	6	FY 06	A	375	375																									0
	6	FY 07	A	25	25																									0
	6	FY 08	A	558	558																									0
	6	FY 09	A	479	320	159	64	64	31																					0
Acft Wireless Intercom Sys (AWIS)																														
	7	FY 07	A	180	180																									0
	7	FY 08	A	36	36																									0
	7	FY 09	A	36	0	36	12	12	12																					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+
1	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10												Fiscal Year 11											Later
							Calendar Year 10												Calendar Year 11											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AWIS A Kits																														
	2	FY 07	A	60	60																									0
	2	FY 08	A	12	12																									0
	2	FY 09	A	15	15																									0
Portable Oxygen System																														
	8	FY 07	A	166	166																									0
CABS A Kits																														
	2	FY 06	A	32	32																									0
CABS B Kits																														
	1	FY 06	A	32	32																									0
CABS B-Kit Retrofit																														
	1	FY 07	A	196	196																									0
Total				33191	31198	1993	1026	587	173	109	80	18																		
							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	Simula, Inc., Phoenix, AZ	1000	4000	8000	
2	Westwind Corporation, Huntsville, AL	190	600	1000	
3	Carleton Technologies, Inc., Orchard Park, NY	150	2000	4000	
4	Raytheon Technical Services, Indianapolis, IN	25	600	1200	
5	Med Eng, Inc, Ogdensburg, NY	150	2000	4000	
6	JVYS, Huntsville, AL	200	600	1000	

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

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

	Prior Years	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	424.0	63.5	92.5	95.2	123.9	79.5	85.9	85.8	88.7		1139.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	424.0	63.5	92.5	95.2	123.9	79.5	85.9	85.8	88.7		1139.0
Initial Spares											
Total Proc Cost	424.0	63.5	92.5	95.2	123.9	79.5	85.9	85.8	88.7		1139.0
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. Mobile Tower System (MOTS) provides positive air traffic control and aircraft separation for both air and ground operations at tactical or remote landing sites. Its capabilities include weather information, secure and anti-jam communications across all required frequency bands and ranges, and precision location. MOTS serves as an effective air traffic control tower for aviation safety, especially during night and inclement weather operations. Fixed Base ATC requirements will be met through a vast array of high technology solutions resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the National Airspace System (NAS). This includes upgrading and automating the complete infrastructure, systematically replacing antiquated analog systems (radars and communications switching system) with installation of state of the art digital technology. These new systems include Voice Communication Switching System (VCSS), Department of Defense (DoD) Advanced Automation System (DAAS), Digital Airport Surveillance Radar (DASR), Instrument Landing System (ILS), and Navigational Aids (NAVAIDS). Fixed Base Precision Approach Radar (FBPAR) will be the Army's primary ground controlled precision approach capability to recover aircraft to fixed base facilities, ensuring safe landing in adverse weather conditions.

Justification:

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

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

ensures interoperability between the Army and FAA systems.

Supplemental Funding: FY07 Title IX $6.5M.

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 2007

ACFT Cost Elements	ID CD	FY 06			FY 07			FY 08			FY 09		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Fixed Base Precision Approach Radar								324					
Voice Communication Switching Syst(VCSS)													
DoD Advanced Automation System (DAAS)								11000					
Digital Airport Surveillance Radar(DASR)								13458					
Tactical Airspace Integration Sys (TAIS)								24958					
Air Traffic Navigation and Integration								33851					
TAIS Airspace Workstation (AWS)								1745					
ILS/NAVAIDS								3990					
TTCS Upgrades								5877					
Mobile Tower System (MOTS)											12151		
Total:								**95203**			**12151**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	369.3	40.7	2.1	2.4	2.6	1.6	1.6	1.7	1.7		423.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	369.3	40.7	2.1	2.4	2.6	1.6	1.6	1.7	1.7		423.5
Initial Spares											
Total Proc Cost	369.3	40.7	2.1	2.4	2.6	1.6	1.6	1.7	1.7		423.5
Flyaway U/C											
Weapon System Proc U/C											

Description:
Army Test and Evaluation Command (ATEC): This program provides funding to the ATEC, Developmental Test Command (DTC) to establish, modernize, expand or replace test facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Aviation Technical Test Center (ATTC), Fort Rucker, AL and Yuma Proving Ground (YPG), Yuma, AZ. Note: 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 is required today and will be moved with the Test Center to Huntsville and will be used for Aircraft Testing in the relocation of this mission. In FY06, funds provide aviation sustainment level (Depot) tools, tool sets and test equipment for the four Aviation Classification Repair Activity Depots (AVCRAD).

Justification:
ATEC: For ATTC, FY 2008 procures various types of airborne instrumentation including analog and inertial sensors, GPS receivers, signal conditioning units, various types of data acquisition equipment and cockpit display components used to obtain aircraft performance data; replaces obsolete servers, storage systems and other LAN equipment used for helicopter test data processing and provides life cycle replacement/upgrade of LAN network components used for data transmission that will allow test directors to more easily access, store, plot, and analyze test data; replaces 1980s vintage telemetry tracking antenna used to track aircraft and collect telemetry data; procures state-of-the-art engineering PC based workstations and tools for engineers to use in test data analysis, presentation, and reporting; procures calibration and support equipment for flight test instrumentation; and replaces aged equipment used to perform in-flight airborne icing tests. At YPG, FY 2008 replaces and upgrades aircraft instrumentation hardware for the time-stamping of on-board recording and telemetering of standard 1553 multiples bus, analog video from sensors, intercom (voice), and analog sensors; and procures on-board recorders and telemetry equipment that can meet the environment and data speeds needed for production base aviation programs; installs down link transmit antennae on top of the hanger(s) with coaxial cables long enough to connect to the aircraft transmitters, so that preflight check out of the entire data/video handling system can be performed with the aircraft still inside the hanger allowing a thorough check out of the airborne instrumentation system and links to Mission Control prior to the test vehicle being moved to the flight line; procures on-board instrumentation for real-time collection of performance data; procures a suite of on-board instrumentation to support testing of the AH-64D Apache helicopter (note: these are standard instrumentation devices that can be employed on other types of aircraft); and develops a ground thermal target to test aircraft electro-optical systems. Instrumentation being upgraded or replaced is obsolete or exceeded it's economic life. Benefits include increased test efficiencies and decreased costs and risks.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty											
Gross Cost	64.0	2.3	2.3	2.4	2.5	2.8	3.0	3.0	3.3		85.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	64.0	2.3	2.3	2.4	2.5	2.8	3.0	3.0	3.3		85.6
Initial Spares											
Total Proc Cost	64.0	2.3	2.3	2.4	2.5	2.8	3.0	3.0	3.3		85.6
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:
FY08 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.