DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
FY 2006 / FY 2007 Budget Request

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

February 2005

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APPROPRIATION SUMMARY

DOLLARS IN THOUSANDS

APPROPRIATION	FY 2004	FY 2005	FY 2006	PAGE
Aircraft Procurement, Army	2,172,335	2,814,517	2,800,880	**3**
TOTAL PROCUREMENT PROGRAM	**2,172,335**	**2,814,517**	**2,800,880**	

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APPROPRIATION Aircraft Procurement, Army

DOLLARS IN THOUSANDS

	ACTIVITY	**FY 2004**	**FY 2005**	**FY 2006**	**PAGE**
01	Aircraft	306,477	502,335	767,628	**4**
02	Modification of aircraft	1,542,316	1,783,745	1,569,729	**5**
03	Spares and repair parts	11,215	10,816	3,948	**7**
04	Support equipment and facilities	312,327	517,621	459,575	**8**
	APPROPRIATION TOTALS	**2,172,335**	**2,814,517**	**2,800,880**	

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004 QTY	FY 2004 COST	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST
	FIXED WING							
1	UTILITY F/W CARGO AIRCRAFT (A11000)							4,926
2	UTILITY F/W AIRCRAFT (A11300)		2	52,281	1	11,921		
	SUB-ACTIVITY TOTAL			*52,281*		*11,921*		*4,926*
	ROTARY							
3	ARMED RECONNAISSANCE HELICOPTER (A04203)							70,000
4	HELICOPTER, LIGHT UTILITY (LUH) (A05001)	A				22,911		108,000
5	UH-60 BLACKHAWK (MYP) (AA0005)		17	(249,154)	38	(433,510)	41	(561,952)
	Less: Advance Procurement (PY)			(-22,890)		(-19,719)		(-56,302)
				226,264		413,791		505,650
6	UH-60 BLACKHAWK (MYP) (AA0005) Advance Procurement (CY)			27,932		40,663		79,052
7	HELICOPTER NEW TRAINING (A06500)					13,049		
	SUB-ACTIVITY TOTAL			*254,196*		*490,414*		*762,702*
	ACTIVITY TOTAL			**306,477**		**502,335**		**767,628**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004 QTY	FY 2004 COST	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST
	MODIFICATIONS OF AIRCRAFT							
8	GUARDRAIL MODS (TIARA) (AZ2000)			14,601		2,187		
9	ARL MODS (TIARA) (AZ2050)	A		5,665				
10	AH-64 MODS (AA6605)	A		69,908		40,444		580,392
11	AH-64 MODS (AA6605) Advance Procurement (CY)							19,000
12	CH-47 CARGO HELICOPTER MODS (AA0252)			(511,048)		(854,052)		(675,065)
	Less: Advance Procurement (PY)			(-21,185)		(-20,363)		(-23,722)
				489,863		833,689		651,343
13	CH-47 CARGO HELICOPTER MODS (AA0252) Advance Procurement (CY)			20,363		23,722		24,689
14	UTILITY/CARGO AIRPLANE MODS (AA0270)			9,176		10,054		13,575
15	OH-58 MODS (AA0400)			473				
16	AIRCRAFT LONG RANGE MODS (AA0560)			876		751		779
17	LONGBOW (AA6670)			(786,942)		(661,031)		(84,513)
	Less: Advance Procurement (PY)			(-46,143)		(-14,099)		
				740,799		646,932		84,513
18	LONGBOW (AA6670) Advance Procurement (CY)			14,099				
19	UH-60 MODS (AA0480)			(18,825)		(90,418)		(33,294)
	Less: Advance Procurement (PY)					(-13,500)		
				18,825		76,918		33,294
20	UH-60 MODS (AA0480) Advance Procurement (CY)			13,500				
21	KIOWA WARRIOR (AZ2200)			50,871		39,124		24,478
22	AIRBORNE AVIONICS (AA0700)			72,517		48,901		106,124

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004 QTY	FY 2004 COST	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST
23	GATM Rollup (AA0711)	A		19,245		61,023		31,542
24	AIRBORNE DIGITIZATION (AA0702)			1,535				
	SUB-ACTIVITY TOTAL			*1,542,316*		*1,783,745*		*1,569,729*
	ACTIVITY TOTAL			**1,542,316**		**1,783,745**		**1,569,729**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004 QTY	FY 2004 COST	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST
	SPARES AND REPAIR PARTS							
25	SPARE PARTS (AIR) (AA0950)			11,215		10,816		3,948
	SUB-ACTIVITY TOTAL			*11,215*		*10,816*		*3,948*
	ACTIVITY TOTAL			**11,215**		**10,816**		**3,948**

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

DOLLARS IN THOUSANDS

LINE NO	ITEM NOMENCLATURE	ID	FY 2004 QTY	FY 2004 COST	FY 2005 QTY	FY 2005 COST	FY 2006 QTY	FY 2006 COST
	GROUND SUPPORT AVIONICS							
26	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)			13,801		12,272		11,200
27	ASE INFRARED CM (AZ3507)			112,785		271,115		211,151
	SUB-ACTIVITY TOTAL			*126,586*		*283,387*		*222,351*
	OTHER SUPPORT							
28	AIRBORNE COMMAND & CONTROL (AA0710)			26,378		27,496		28,055
29	AVIONICS SUPPORT EQUIPMENT (AZ3000)			24,357		5,120		3,418
30	COMMON GROUND EQUIPMENT (AZ3100)			16,474		56,325		70,436
31	AIRCREW INTEGRATED SYSTEMS (AZ3110)			32,848		29,694		29,352
32	AIR TRAFFIC CONTROL (AA0050)			59,518		55,235		62,399
33	INDUSTRIAL FACILITIES (AZ3300)			1,194		45,041		41,222
34	LAUNCHER, 2.75 ROCKET (A50100)			2,493		2,404		2,342
35	AIRBORNE COMMUNICATIONS (AA0705)			22,479		12,919		
	SUB-ACTIVITY TOTAL			*185,741*		*234,234*		*237,224*
	ACTIVITY TOTAL			**312,327**		**517,621**		**459,575**
	APPROPRIATION TOTAL			**2,172,335**		**2,814,517**		**2,800,880**

NOMENCLATURE INDEX

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Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2004 & Prior	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
GUARDRAIL MODS (TIARA) (AZ2000)										
GUARDRAIL Information Node (GRFN)	2.6									2.6
SIGINT Transition Program (STP)	5.1									5.0
Interference Cancellation Sys/Radio Relay Sys	5.0									4.8
JTT Upgrades	1.1									1.1
Airborne Tactical Common Data Link	12.6	2.2								14.8
Guardian Eagle System 4 Upgrades	14.1									13.5
Total	**40.4**	**2.2**								**41.7**
ARL MODS (TIARA) (AZ2050)										
TPPU/TPED					5.1		2.6	2.6		10.3
Aircraft Survivability Equipment (ASE)	11.4									8.3
Upgrade to DAMA Compliant Radio	7.7									6.2
Comint Upgrades	10.3									7.9
Aircraft Standardization	1.1									0.9
IMINT Digital Framing	3.2									2.6
Joint Tactical Terminal (JTT) Integration	0.7									0.7
Total	**34.4**				**5.1**		**2.6**	**2.6**		**36.9**
AH-64 MODS (AA6605)										
TADS/PNVS Upgrades	94.8	13.5	13.3	7.8	9.6	11.0				150.0
AH-64A MISC Mods $5M or less (no P3a set)	690.6	12.7	11.7	3.4	6.0	6.3				
Apache Transformation	18.5		5.5	3.3	4.5	3.8				35.7
Modernized TADS/PNVS (M-TADS)	45.0	14.2	256.6	206.6	99.1	125.0				746.5
701C Engines (no P3a set)	40.0									
Internal Auxiliary Fuel System (IAFS)			27.7	23.3	7.4	13.7	35.1			107.2
AH-64A Reliability and Safety (R&S)	11.0		90.6	21.1	0.3	2.9	2.9			128.8
AH-64D R&S & Selected Component Recap			114.8	54.9	1.5					171.1

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2004 & Prior	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
AH-64D Block III					6.0	110.2	525.5	609.8	4527.4	5778.9
Fire Control Radar (FCR)Obsolescence & Integration			4.9	4.9	3.8					
AH-64 Training Devices			44.2							44.2
AH-64 Initial Spares (No P-3a Set)			1.5	2.0	2.0	2.0	2.0	2.0		
AH-64 Block II Upgrade			29.0	493.6	508.5	289.2	43.6			1363.8
AH64 Post Production Organic Support			1.1	1.3	2.1	23.3	29.7			57.5
Total	**899.9**	**40.4**	**600.9**	**822.1**	**650.8**	**587.4**	**638.7**	**611.8**	**4527.4**	**8583.7**
CH-47 CARGO HELICOPTER MODS (AA0252)										
Engine Filtration System	19.9	6.5	7.7	6.8	10.3	14.7	14.6	16.5	1.1	98.1
Engine Upgrade to T55-GA-714A Configuration	760.8	165.2	147.9	64.7	5.7					1144.3
CH-47F	808.8	623.9	469.2	486.4	672.8	961.7	795.6	907.0	6089.1	11814.5
Low Maintenance Rotor Hub	16.1	9.6	10.0	11.4	10.8	11.3				69.2
Engine Fire Extinguisher (Halon Replacement)		2.6	7.2	8.4	8.4	8.6	9.5			44.7
Aviation Combined Arms Tactical Trainer (AVCATT)			4.2	4.1	3.6					11.9
Ballistic Protection, Blade Fold Kits, SKOs		24.4	5.1	5.8	6.8	8.6				50.7
Total	**1605.6**	**832.2**	**651.3**	**587.5**	**718.4**	**1005.0**	**819.6**	**923.5**	**6090.1**	**13233.3**
UTILITY/CARGO AIRPLANE MODS (AA0270)										
Avionics System Cockpit Upgrade	81.9	10.1	13.6	9.8	7.0	6.5	10.1	10.4		149.3
Total	**81.9**	**10.1**	**13.6**	**9.8**	**7.0**	**6.5**	**10.1**	**10.4**		**149.3**
AIRCRAFT LONG RANGE MODS (AA0560)										
Aircraft Long Range Mods	14.8	0.8	0.8	0.8	0.6	0.6	0.8	0.8		20.0
Total	**14.8**	**0.8**	**0.8**	**0.8**	**0.6**	**0.6**	**0.8**	**0.8**		**20.0**
LONGBOW APACHE MODS (AA6607)										
Longbow Apache Mods	4637.6	649.1	84.5							5371.2

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2004 & Prior	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
Total	**4637.6**	**649.1**	**84.5**							**5371.2**
UH-60 BLACK HAWK MODS (AA0492)										
Crashworthy External Fuel System (CEFS)	53.7	15.8	19.7	19.6						108.8
HH-60L Medical Equip Package (MEP)	48.2	37.8								86.0
Adv Hel Transmission Lubricant (AHTL)	4.6	2.4								3.5
Combat Search and Rescue (CSAR)		6.8								3.4
Brigade Sets		18.7	13.6	10.8	13.1	11.1				67.3
Total	**106.5**	**81.5**	**33.3**	**30.4**	**13.1**	**11.1**				**269.0**
KIOWA WARRIOR (AZ2200)										
Safety Enhancement Program (SEP)	262.3	33.6	22.3	24.4	5.0	2.6				350.2
Safety Enhancement Program - Weight Reduction	4.2			17.5	16.0	12.9	4.2	4.1	2.7	61.6
Helmet-Mounted Optical Display	2.0									
Sets / Kits / Outfits (Two-Level Maint)		5.5	2.1	1.0						8.6
Program Support							1.7	1.8	10.5	
Total	**268.5**	**39.1**	**24.4**	**43.0**	**20.9**	**15.5**	**5.8**	**5.9**	**13.2**	**420.4**
AIRBORNE AVIONICS (AA0700)										
Improved Data Modem (IDM)	247.6	23.2	50.8	50.3	58.9	47.9	43.6	67.7		589.9
Aviation Mission Planning System (AMPS)	121.7	12.6	9.9	12.1	12.8	13.1	17.2	15.6		215.0
Centralized Automated Flight Records System (CAFRS			6.0	3.6	2.0					11.6
Embedded GPS Inertial Navigation System (EGI) P3I	18.2	2.6	1.3	1.9	1.7	1.8	20.1	10.5		58.1
DGNS (AN/ASN-128B) P3I	27.5	10.5	9.1	12.9	19.2	23.7	10.9	10.7		124.4
Aviation Tactical Communication Systems			23.0	37.6	56.6	67.9	77.7	78.6		341.5
Joint Precision Approach and Landing Sys (JPALS)							48.0	78.7		
Tactical Terrain Visualization System			6.0	1.0	1.0	1.0	1.0	1.0		11.0
Total	**415.0**	**49.0**	**106.1**	**119.4**	**152.1**	**155.4**	**218.4**	**262.9**		**1351.5**
GATM - Fixed Wing Aircraft (AA0703)										
Global Air Traffic Management - FW	61.1	41.6	8.8	8.0	9.4	8.5	13.4	13.4		164.1

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2004 & Prior	2005	2006	2007	2008	2009	2010	2011	To Complete	Total Program
Blue Force Tracking (BFT)	8.2									3.6
Total	**69.3**	**41.6**	**8.8**	**8.0**	**9.4**	**8.5**	**13.4**	**13.4**		**167.7**
Grand Total	**8173.9**	**1745.8**	**1523.6**	**1621.0**	**1577.5**	**1789.8**	**1709.4**	**1831.3**	**10630.7**	**29644.7**

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UTILITY F/W CARGO AIRCRAFT (A11000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost					4.9	107.5	134.3	215.5	255.3	339.4		1057.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					4.9	107.5	134.3	215.5	255.3	339.4		1057.1
Initial Spares												
Total Proc Cost					4.9	107.5	134.3	215.5	255.3	339.4		1057.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Cargo Fixed Wing Aircraft program was established to correct operational shortfalls to cargo mission requirements, provide commonality with other aviation platforms, and replace multiple retiring aircraft systems. Funding also covers support equipment, and simulator requirements associated with the cargo aircraft. This aircraft addresses these shortfalls, and replaces retiring C-26 and C-23 fleets, and selected C-12s beginning in FY 2007 and ending in FY 2025.

Justification:
The FY 2006/2007 request funds the Source Selection process, and procures three critically needed Fixed Wing Cargo aircraft. These Cargo Fixed Wing Aircraft will make delivery of critical time sensitive materiel to the Warfighter; and provide the Army the agility necessary to respond to short-notice requirements and missions, as directed by higher authority. It also provides support equipment, and initial training including associated simulator requirements.

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Cargo Fixed Wing Aircraft													
SSEB								4926					
Hardware											101571	3	33857
Crew Training											2962		
PM Management											3000		
ASE Procurement (NRE)													
Military Interoperability (NRE)													
Base Start Up (NRE)													
Cargo Fixed Wing Aircraft Total								**4926**			**107533**		
Total								**4926**			**107533**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 2007	TBS	C/FFPIDIQ	Redstone Arsenal, AL	Jan 07	Jan 08	3	33857	NA		Dec 06

REMARKS:

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: UTILITY F/W CARGO AIRCRAFT (A11000)

Date: February 2005

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

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	To Be Selected (TBS)	.00	.00	1.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	3	12	15
	REORDER	0	3	23	26

REMARKS

No production information available and no contract award until January 2007.
First unit production lead is 12 months (only very first delivery).
All other production lead time is 23 months.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: UTILITY F/W CARGO AIRCRAFT (A11000)

Date: February 2005

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

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	To Be Selected (TBS)	.00	.00	1.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	3	12	15
	REORDER	0	3	23	26

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UTILITY F/W AIRCRAFT (A11300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	24	1	2	1			1	2				31
Gross Cost	169.7	8.2	52.3	11.9			17.3	34.7				294.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	169.7	8.2	52.3	11.9			17.3	34.7				294.2
Initial Spares												
Total Proc Cost	169.7	8.2	52.3	11.9			17.3	34.7				294.2
Flyaway U/C												
Wpn Sys Proc U/C		8.2	21.3				16.8	16.9				

Description:
The budget line covers the procurement of short and medium range utility fixed wing aircraft. The Army has identified the need for a fast all weather transport for commanders, their staff and critical equipment parts. These aircraft will be capable of rapid, worldwide self-deployment, while continuing to provide for intra-theater missions ranging from Support and Stability Operations to Wartime Operations. New utility aircraft are required to replace the aging fixed wing fleet that will meet the end of their service life within the current Extended Planning Program (EPP). These aircraft will be commercial-off-the-shelf, non-developmental, fixed wing aircraft systems.

Justification:
FY 2006/2007 - No Budget Request.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: UTILITY F/W AIRCRAFT (A11300)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
C-37 Aircraft													
Hardware and Associated Support		44340	1	44340									
Air Force Program Management Fees		200											
C-37 Total		**44540**											
UC-35 Aircraft													
Hardware and Associated Support		7741	1	7741									
UC-35 Total		**7741**											
Utility Aircraft													
Hardware and Associated Support					11921	1	11921						
Utility Aircraft Total					**11921**								
Total		**52281**			**11921**								

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
HELICOPTER, OBSERVATION, Kiowa Warrior Replacement (A04203)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty					10	28	60	90	90	90		368
Gross Cost					70.0	198.8	399.2	579.0	555.0	555.6		2357.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					70.0	198.8	399.2	579.0	555.0	555.6		2357.7
Initial Spares												
Total Proc Cost					70.0	198.8	399.2	579.0	555.0	555.6		2357.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The mission of the Armed Reconnaissance Helicopter (ARH) is to provide a robust reconnaissance and security capability for the Joint Combined arms air-ground maneuver team. The ARH is a combination of a modified off-the-shelf (OTS) airframe integrated with a non-developmental item (NDI) mission equipment package (MEP). The ARH will be fielded to support current forces in the Global War on Terror (GWOT) and will possess the growth potential to bridge the capability gaps to the Future Combat Force. The ARH is a direct replacement for the aging OH-58D Kiowa Warrior fleet.

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

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

Justification:
FY 2006 / FY 2007 funding will provide 10 and 28 LRIP aircraft, respectively; as well as associated support costs.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: HELICOPTER, OBSERVATION, Kiowa Warrior Replacement (A04203)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Costs								54153	10	5415.3	143471	28	5124.0
Non-Recurring Flyaway Costs								7446			5022		
Total Flyaway								**61599**			**148493**		
Other Procurement Cost								8401			50352		
Total Other Procurement								**8401**			**50352**		
Gross P-1 End Cost								**70000**			**198845**		
Less: Prior Year Adv Proc													
Net P-1 Full Funding Cost													
Plus: P-1 CY Adv Proc													
Other Non P-1 Costs													
Total								**70000**			**198845**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

Appropriation/Budget Activity/Serial No:	Weapon System Type:	P-1 Line Item Nomenclature:
Aircraft Procurement, Army / 1 / Aircraft		HELICOPTER, OBSERVATION, Kiowa Warrior Replacement (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
Aircraft Flyaway Costs										
FY 2006 LRIP I	Pending Source Selection	FFP	Pending Source Selection	JUL 06	JUL 07	10	5415			DEC 04
FY 2007 LRIP II	Pending Source Selection	FFP	Pending Source Selection	JAN 07	JAN 08	28	5124			DEC 04

REMARKS: Low Rate Initial Production (LRIP) I (FY06) and LRIP II (FY07) options will be included as part of the Systems Development and Demonstration (SDD) contract awarded in June 2005.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER, OBSERVATION, Kiowa Warrior Replacement (A04203)

Date: February 2005

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	
Aircraft Procurements																													
	1	FY 06	A	10	0	10										A											1	1	2	6
	1	FY 07	A	28	0	28																A								28
Total				38		38																					1	1	2	34

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER, OBSERVATION, Kiowa Warrior Replacement (A04203)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 08 / CY 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 09 / CY 09 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Aircraft Procurements																															
	1	FY 06	A	10	4	6	2	2	2																						0
	1	FY 07	A	28	0	28				2	2	4	4	4	4	4	4														0
Total				38	4	34	2	2	2	2	2	4	4	4	4	4	4														

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				3	28	50	57	56	38	13	77	322
Gross Cost				22.9	108.0	190.6	221.6	221.8	157.3	58.6	323.8	1304.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				22.9	108.0	190.6	221.6	221.8	157.3	58.6	323.8	1304.7
Initial Spares	0.6											0.6
Total Proc Cost	0.6			22.9	108.0	190.6	221.6	221.8	157.3	58.6	323.8	1305.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Light Utility Helicopter (LUH) will provide organic general aviation support for CONUS based Table of Distribution and Allowance (TDA) and Table of Equipment (TOE) aviation units in the active and reserve components. The primary mission of the LUH is to provide aerial transport for staff and liasion elements, air messenger service, air movement of supplies, maintenance support, and limited command and control. The LUH will be utilized in disaster relief, search and rescue, homeland security operations, and administrative transport operations. The LUH provides time-sensitive transport of supplies or key personnel, air mobility to assist civil authorities through the execution of search and rescue or disaster relief operations, advanced warning/detection of external threats to include threats to our borders, augmentation of air ambulance capabilities, and limited command and control operations in the conduct of homeland security.

Justification:
The FY 2006 / FY 2007 budget request provides 28 and 50 aircraft, respectively. It also funds fielding, and provides Contractor Logistics Support(CLS).

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
AIRCRAFT Flyaway Costs													
Airframes/CFE					10980	3	3660	99777	28	3563	181545	50	3631
Subtotal Flyaway Costs					**10980**			**99777**			**181545**		
Non-Recurring Costs													
Total Flyaway					**10980**			**99777**			**181545**		
Support Cost													
PM Support Cost					2726			3857			3775		
Source Selection Performance Demo					3680								
Other Govt SPT Cost					865			2879			1845		
Simulator					1340								
Fielding								1133			2842		
Publications Tech/Data					100			354			638		
Source Selection Board (SSEB)					3220								
Subtotal Support Costs					**11931**			**8223**			**9100**		
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					**22911**			**108000**			**190645**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
HELICOPTER, LIGHT UTILITY (LUH) (A05001)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2005	TBD	FFP	AMCOM	Sep 05	Sep 06	3	3660	No		
FY 2006	TBD	FFP	AMCOM	Dec 05	Dec 06	28	3563	No		
FY 2007	TBD	FFP	AMCOM	Dec 06	Dec 07	50	3631	No		

REMARKS:

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05 / Calendar Year 05 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 06 / Calendar Year 05 OCT	NOV	DEC	Calendar Year 06 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Airframes/CFE																														
	1	FY 05	A	3	0	3												A												1	2
	1	FY 06	A	28	0	28															A										28
	1	FY 07	A	50	0	50																									50
Total				81		81																								1	80

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	TBD ,	3.00	72.00	100.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	1	11	12	23
	REORDER	0	3	12	15
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08										LATER
							Calendar Year 07												Calendar Year 08										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																													
	1	FY 05	A	3	1	2	1	1																					0
	1	FY 06	A	28	0	28			2	2	2	2	2	2	2	2	2	3	3	4										0
	1	FY 07	A	50	0	50			A												4	4	4	4	4	4	4	4	4	5	9
Total				81	1	80	1	1	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	4	4	4	5	9

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	TBD ,	3.00	72.00	100.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	1	11	12	23
	REORDER	0	3	12	15
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10										LATER
							Calendar Year 09												Calendar Year 10										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																													
	1	FY 05	A	3	3	0																							0
	1	FY 06	A	28	28	0																							0
	1	FY 07	A	50	41	9	5	4																					0
Total				81	72	9	5	4																					

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	TBD ,	3.00	72.00	100.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	1	11	12	23
	REORDER	0	3	12	15
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 BLACKHAWK (MYP) (AA0005)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
0203744A/Project 504

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	1561	19	17	38	41	45	80	76	74	76	854	2881
Gross Cost	8865.5	286.5	249.2	433.5	562.0	740.6	1138.1	1097.7	1106.1	1140.0	15090.8	30710.0
Less PY Adv Proc	2420.0	23.1	22.9	19.7	56.3	79.1	139.4	137.5	139.0	148.0	1979.9	5164.9
Plus CY Adv Proc	2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9
Net Proc (P-1)	8892.3	290.1	254.2	454.5	584.7	846.2	1132.1	1084.6	1088.6	1135.9	14946.9	30710.0
Initial Spares	421.3											421.3
Total Proc Cost	9313.6	290.1	254.2	454.5	584.7	846.2	1132.1	1084.6	1088.6	1135.9	14946.9	31131.3
Flyaway U/C		9.4	10.5	9.6	12.2	14.2	12.6	12.2	12.2	12.6		
Wpn Sys Proc U/C		15.3	15.0	12.0	14.3	18.8	14.2	14.3	14.7	14.9		

Description:
UH-60 BLACK HAWK and associated equipment.

This budget submission reflects the revised Army acquisition strategy to procure all new UH-60M models, in lieu of the previous recap/upgrade program. Corresponding funds have been transferred from the UH-60 MODS budget line.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 BLACK HAWK (MYP) (A05002)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
0203744A/Project 504

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	1558	19	17	38	41	45	80	76	74	76	854	2878
Gross Cost	8826.0	286.5	249.2	433.5	562.0	740.6	1138.1	1097.7	1106.1	1140.0	15090.8	30670.5
Less PY Adv Proc	2420.0	23.1	22.9	19.7	56.3	79.1	139.4	137.5	139.0	148.0	1979.9	5164.9
Plus CY Adv Proc	2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9
Net Proc (P-1)	8852.8	290.1	254.2	454.5	584.7	846.2	1132.1	1084.6	1088.6	1135.9	14946.9	30670.5
Initial Spares	421.3											421.3
Total Proc Cost	9274.1	290.1	254.2	454.5	584.7	846.2	1132.1	1084.6	1088.6	1135.9	14946.9	31091.8
Flyaway U/C		9.4	10.5	9.6	12.2	14.2	12.6	12.2	12.2	12.6		
Wpn Sys Proc U/C		15.3	15.0	12.0	14.3	18.8	14.2	14.3	14.7	14.9		

Description:
The UH-60 BLACK HAWK is a twin engine, single rotor helicopter that is designed to support the Army's air mobility doctrine for employment of land forces in the 21st century. The BLACK HAWK is used in the performance of the Air Assault, General Support, and Aeromedical Evacuation missions. It is designed to carry a crew of four and 11 combat-equipped troops, or an external load up to 9,000 pounds. It performs the missions of transporting troops and equipment into combat, resupplying the troops while in combat, and performing the associated functions of aeromedical evacuation, repositioning of reserves, and command and control.

Justification:
FY 06/07 procures 86 UH-60 aircraft (24 UH-60Ls and 62 UH-60Ms - 14 of the UH-60Ms will also become Commander in Chief (CINC) HAWK and command and control aircraft) continues fielding, and provides for Program Management Office operations. The current multiservice, airframe multiyear contract began in FY 2002 and concludes in FY 2006. A follow on five year multiyear contract covering requirements for FY07-FY11 is being planned to procure UH-60M aircraft.

This budget submission reflects the revised Army acquisition strategy to procure all new UH-60M models, in lieu of the previous recap/upgrade program. Corresponding funds have been transferred from the UH-60 MODS budget line.

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Aircraft Flyaway Costs													
Airframes/CFE		142123	17	8360	306628	38	8069	403434	41	9840	531917	45	11820
Engines/Accessories		16067	26	618	26437	46	575	48946	82	597	55392	90	615
Avionics (GFE)		13746			18305			33007			35528		
Other GFE		2599			6863			8674			8574		
Armament													
ECO (All FLYAWAY Components)		1404			3848			7316			8638		
Other Costs (Mission Equipment)		3308			1973								
Tooling Equipment					9651			8750			26239		
Other Nonrecurring Cost		7063			4193			79					
Total FLYAWAY		**186310**			**377898**			**510206**			**666288**		
Support Cost													
Airframe PGSE		370			2791						2919		
Engine PGSE		495			69								
Peculiar Training Equipment		25000			5900			10208			5000		
Publications/Tech Data					1819			2372			1825		
PM Administration		30975			35301			29518			28887		
Fielding		6004			9732			9648			35729		
Subtotal Support Cost		**62844**			**55612**			**51746**			**74360**		
Gross P-1 End Item Cost		**249154**			**433510**			**561952**			**740648**		
Less: Prior Year Adv Proc		22890			19719			56302			79052		
Net P-1 Full Funding Cost		**226264**			**413791**			**505650**			**661596**		
Plus: P-1 CY Adv Proc		27932			40663			79052			184604		
Initial Spares													
Total		**254196**			**454454**			**584702**			**846200**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2004	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 03	Mar 04	17	8360	Yes		Sep 00
FY 2005	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 04	Jun 05	33	7322	Yes		Sep 00
FY 2005	Sikorsky Aircraft Stratford CT	SSS/FP	AMCOM	May 05	Jul 06	5	13000	Yes		Oct 04
FY 2006	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 05	Jul 06	36	9820	Yes		Sep 00
FY 2006	Sikorsky Aircraft Stratford CT	SSS/FP	AMCOM	Jan 06	Jan 07	5	9980	Yes		Oct 04
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Mar 07	Jan 08	45	11820	Yes		May 05

REMARKS: FY05 Multi-Year Contract (MYC) award for UH-60L Aircraft included 8 base aircraft and 25 aircraft exercised on the option clause. FY05 Single Year Contract (SYC) is for the procurement of 5 UH-60M aircraft on an LRIP contract. FY06 MYC award includes 28 base aircraft and 8 aircraft to be procured on the option clause. Twelve FY06 UH-60L aircraft will be modified on the production line to UH-60M aircraft. Those 12 aircraft will then receive Mission Equipment Packages to convert them to Commander in Chief HAWK (CINCHAWK) aircraft and command and control aircraft. FY06 SYC is for the the procurement of 5 additional UH-60M aircraft on an LRIP contract. The FY07 contract will be the first year of a 5 year multi-year, multi-service contract for the procurement of UH-60Ms.

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																													
	1	FY 04	A	17	0	17			A			2	1					2			1		2	2	3	2	1	1			0
	1	FY 05	A	38	0	38															A						2	2	2	3	29
	1	FY 06	A	41	0	41																									41
	1	FY 07	A	45	0	45																									45
	1	FY 04	NA	13	0	13										2	1	1	1	1	1	1	1	1	1	1	1				0
	1	FY 05	NA	15	0	15																						1	1	2	11
	1	FY 06	NA	26	0	26																									26
	1	FY 07	NA	30	0	30																									30
Total				225		225						2	1			2	1	3	1	1	2	1	3	3	4	3	4	4	3	5	182

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Sikorsky Aircraft , Stratford CT	2.00	5.00	8.00	0

MFR Number		ADMINLEAD 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

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)

Date: February 2005

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	
Airframes/CFE																													
	1	FY 04	A	17	17	0																							0
	1	FY 05	A	38	9	29	3	3	3	3	3	3	3	2	1	1	1	1	1	1									0
	1	FY 06	A	41	0	41			A							2	3	3	3	3	2	5	5	5	5	3	2				0
	1	FY 07	A	45	0	45																		A							45
	1	FY 04	NA	13	13	0																									0
	1	FY 05	NA	15	4	11	1	2	1	1	1	2	1	1	1																0
	1	FY 06	NA	26	0	26										2	2	2	2	2	2	2	2	2	3	2	3				0
	1	FY 07	NA	30	0	30																						2	3	2	23
Total				225	43	182	4	5	4	4	4	5	4	3	2	5	6	6	6	6	4	7	7	7	8	5	5	2	3	2	68

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Sikorsky Aircraft , Stratford CT	2.00	5.00	8.00	0

MFR Number		ADMINLEAD 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

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08 / Calendar Year 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 09 / Calendar Year 08 OCT	NOV	DEC	Fiscal Year 09 / Calendar Year 09 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Airframes/CFE																															
	1	FY 04	A	17	17	0																									0
	1	FY 05	A	38	38	0																									0
	1	FY 06	A	41	41	0																									0
	1	FY 07	A	45	0	45				4	4	4	4	3	3	3	4	4	4	4	4										0
	1	FY 04	NA	13	13	0																									0
	1	FY 05	NA	15	15	0																									0
	1	FY 06	NA	26	26	0																									0
	1	FY 07	NA	30	7	23	3	2	3	2	3	2	3	2	3																0
Total				225	157	68	3	2	3	6	7	6	7	5	6	3	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	
	Fiscal Year 08 / Calendar Year 08												Fiscal Year 09 / Calendar Year 08			Fiscal Year 09 / Calendar Year 09									LATER

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Sikorsky Aircraft , Stratford CT	2.00	5.00	8.00	0

MFR Number		ADMINLEAD 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

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 BLACKHAWK (MYP)(Adv Proc) (AA0005)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
0203744A/ Project 504

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9
Net Proc (P-1)	2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9
Initial Spares												
Total Proc Cost	2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
FY06/07 Advance Procurement funding provides for the procurement of both Economic Order Quantity (EOQ) and long lead items on the proposed FY 2007-2011 airframe multiyear contract. Advance procurement is also required for the procurement of GFE items, including the T700-GE-701D engine, IHIRSS and some avionics items, since their leadtime exceeds the leadtime of the aircraft (with long lead funding). The funding ramp up starting in FY 06 supports the revised acquisition strategy of buying new UH-60M's.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:

First System Completion Date:

Date: February 2005

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

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

($ in Millions)

0203744A/ Project 504

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Quantity			1558	19	17	38	41	45	80	76	74	76	854	2878
CFE Airframe	18	6	1506.2	16.3	18.3	18.8	37.4	109.2	60.6	52.1	45.6	72.0	880.5	2816.9
Engines	13	3	675.5	8.1	8.1	15.8	27.5	49.6	47.9	47.6	49.8	48.1	630.1	1608.0
Avionics		3	124.6			3.6	10.1	18.3	17.7	17.6	18.4	17.8	232.8	460.7
Auxiliary Power Unit	6	3	44.5	0.5	0.5									45.5
Armored Crew Seat	6	3	22.4	0.6	0.4									23.4
Hover Infrared Suppressor	14	3	30.4	0.7	0.6	2.5	4.2	7.5	7.3	7.3	7.6	6.0	92.5	166.7
Elastomeric Bearings	10	3	1.5											1.5
Miscellaneous		3	41.7	0.5										42.2
Total Advance Procurement			2446.8	26.7	27.9	40.7	79.1	184.6	133.4	124.4	121.4	144.0	1836.0	5164.9

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

Advance Procurement Requirements Analysis-Funding (P10B)

Date: February 2005

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	2006 Qty	2006 Contract Forcast Date	2006 Total Cost Request	2007 Qty	2007 Contract Forcast Date	2007 Total Cost Request
CFE Airframe	18	1		45	Dec 2005	37.357	306	Mar 2007	109.200
Engines	13	2	0.610	45	Dec 2005	27.450	80	Dec 2006	49.600
Avionics				45	Dec 2005	10.078	80	Dec 2006	18.256
Hover Infrared Suppressor	14	1	0.089	45	Dec 2005	4.167	80	Dec 2006	7.548
Total Advance Procurement						79.052			184.604

Airframes are currently being procured on an FY02 through FY06 joint service multiyear contract for the UH-60L and MH-60S. A follow-on FY07-11 multiyear contract procuring additional MH-60S aircraft for the Navy and UH-60M aircraft for the Army is being planned. All FY06 funding requested is for the procurement of FY07 funded aircraft, since multiyear authority has not yet been granted. Airframe quantity and funding in FY07 is for aircraft planned for procurement in FY08 through FY11. No unit price is shown for the airframe, since the the AP is for termination liability. Avionics includes numerous items procured by CECOM. Unit cost of APU, Engine, and HIRSS are the latest contract price. Engine unit price is an NTE price, while FY06/07 values represent the estimated settlement price. The item configuration of the Engine and HIRSS planned for procurement in FY06 and FY07 are upgrades to the existing items.

Advance Procurement Requirements Analysis-Funding (P10C)

Date: February 2005

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 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
Proposal w/o AP												
Then Year Cost	74	175	236	263	335	350	140	42	24			1635
Constant Year Cost	76	177	236	260	325	335	132	38	22			1597
Present Value	71	162	213	230	283	288	112	32	18			1405
AP Proposal												
Then Year Cost	72	168	228	256	325	337	135	40	23			1580
Constant Year Cost	74	170	228	252	316	322	126	37	21			1543
Present Value	69	156	205	223	275	277	107	31	18			1358
AP Savings (Difference)												
Then Year Cost	-3	-7	-9	-8	-10	-14	-6	-2	-2			-56
Constant Year Cost	-3	-7	-9	-8	-10	-13	-6	-2	-1			-54
Present Value	-3	-6	-8	-7	-9	-11	-5	-2	-1			-48

Costs shown are total program outlays. The AP proposal represents the current budget, including the Advance Procurement necessary to execute an FY02-06 airframe multiyear contract. Proposal without AP represents the estimated cost of single year contracting over the same time span. Savings does not include any savings realized in the procurement of unexercised option aircraft or other Customers (Other Service/FMS). Constant dollars shown are FY04. A 3.1% discount factor was applied to the constant year dollars. It should be noted that even assuming single year contracting, some AP is required, since actual production lead time is greater than the effective production lead time. GFE items procured using Advance Procurement funds are not included, since they provide no cost benefit--they are procured in advance in order to support the airframe delivery schedule.

Savings realized from the proposed FY07-FY11 UH-60M airframe contract will be incorporated when Congressional approval is granted. Preliminary estimates indicate a savings of approximately $300M for the procurement of 351 aircraft.

Advance Procurement Requirements Analysis-Execution (P10D)

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

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

($ in Millions)

	PTL (mos)	2004 Qty	2004 Contract Forecast Date	2004 Actual Contract Date	2004 Total Cost Request	2004 Actual Contract Cost	2005 Qty	2005 Contract Forecast Date	2005 Actual Contract Date	2005 Total Cost Request	2005 Actual Contract Cost	2006 Qty	2006 Contract Forecast Date	2007 Qty	2007 Contract Forecast Date
End Item Quantity															
CFE Airframe	18	8	Dec 03	Dec 03	18.3	19.6	28	Dec 04		18.8	18.8	45	Dec 2005	306	Mar 2007
Engines	13	12	Jan 04	Jan 04	8.1	6.8	24	Dec 04		15.8	15.8	45	Dec 2005	80	Dec 2006
Avionics							28	Dec 04		3.6	3.6	45	Dec 2005	80	Dec 2006
Auxiliary Power Unit	6	8	Dec 03	Dec 03	0.5	0.5									
Armored Crew Seat	6	16	Dec 03	Dec 03	0.4	0.4									
Hover Infrared Suppressor	14	8	Dec 03	Dec 03	0.6	0.6	28	Dec 04		2.5	2.5	45	Dec 2005	80	Dec 2006
Elastomeric Bearings	10														
Miscellaneous															
Total Advance Procurement					27.9	27.9				40.7	40.7				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
HELICOPTER NEW TRAINING (A06500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	169	6		7								182
Gross Cost	166.8	9.8		13.0								189.7
Less PY Adv Proc	0.0											
Plus CY Adv Proc	0.0											
Net Proc (P-1)	166.8	9.8		13.0								189.7
Initial Spares												
Total Proc Cost	166.8	9.8		13.0								189.7
Flyaway U/C	0.0											
Wpn Sys Proc U/C												

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

Justification:
There is no funding beyond FY05.

Exhibit P-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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
AIRCRAFT					12439	7	1777						
SUPPORT COSTS					610								
Total					**13049**								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AIRCRAFT										
FY 2002	Bell Helicopter Ft. Worth, TX	SS/IDIQ	Redstone Arsenal, AL	May 02	Mar 03	15	1594	Yes		Oct 00
FY 2003	Bell Helicopter Ft. Worth, TX	SS/IDIQ	Redstone Arsenal, AL	Dec 02	Oct 03	6	1597	Yes		Oct 00
FY 2005	Bell Helicopter Ft. Worth, TX	SS/IDIQ	Redstone Arsenal, AL	Dec 04	Apr 06	7	1777	Yes		Oct 00

REMARKS: RFP issued Oct 00 resulted in a 5-year Indefinite Delivery Indefinite Quantity contract.

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER NEW TRAINING (A06500)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04										LATER
							Calendar Year 03												Calendar Year 04										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AIRCRAFT																													
	1	FY 02	A	15	0	15						1	2	2	2	2	2	2	2											0
	1	FY 03	A	6	0	6			A												1	2	2	1							0
	1	FY 05	A	7	0	7																									7
Total				28		28						1	2	2	2	2	2	2	3	2	2	1									7

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Bell Helicopter , Ft. Worth, TX	1.00	3.00	5.00	3

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL		5	5	7	12
	REORDER		0	0	0	0
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					

REMARKS

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: HELICOPTER NEW TRAINING (A06500)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05 / Calendar Year 05 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 06 / Calendar Year 06 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
AIRCRAFT																															
	1	FY 02	A	15	15	0																									0
	1	FY 03	A	6	6	0																									0
	1	FY 05	A	7	0	7			A																1	2	2	2			0
Total				28	21	7																			1	2	2	2			

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+	MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Bell Helicopter , Ft. Worth, TX	1.00	3.00	5.00	3	1	INITIAL	5	5	7	12	
							REORDER	0	0	0	0	

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	708.7	14.0	14.6	2.2								739.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	708.7	14.0	14.6	2.2								739.4
Initial Spares	17.1											17.1
Total Proc Cost	725.8	14.0	14.6	2.2								756.6
Flyaway U/C												
Wpn Sys 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 Aerial Common Sensor (ACS) is fully fielded to the Future Force in FY 2017.

The GRCS has integrated the Improved GUARDRAIL V capability for 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 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 Integrated Processing Facility (IPF). Key performance requirements include a real-time COMINT and ELINT collection and high accuracy target location capability in communications and radar frequencies. The Interoperable Data Link (IDL)/Multi-Role Data Link (MRDL) connects the airborne elements and the ground processing element. A satellite remote relay provides rapid deployment capability. The GUARDRAIL Information Node(GRIFN)is the GRCS downsized and deployable integrated processing facility (IPF), and building block towards the Army Distributed Common Ground Station (DCGS-A). GRIFN will play a vital role in interim DCGS-A which is planned to be demonstrated at the 18th Airborne Corps in FY 04. GR/CS Guardian Eagle (GE) System 2 & 4 were provided updated hardware and software which provided a capability to process non-traditional signals, providing intercept of military communication emitters, and commercially available hand-held communication devices. This capability supports the Global War on Terrorism.

GRCS contributes directly to the success of Army Modernization by serving as an operational platform for verification of new or improved technologies necessary for the future Aerial Common Sensor (ACS).

Justification:
There is no FY2006/2007 Budget Request.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
ARL MODS (TIARA) (AZ2050)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	24.4	20.5	5.7				5.1		2.6	2.6		60.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	24.4	20.5	5.7				5.1		2.6	2.6		60.9
Initial Spares												
Total Proc Cost	24.4	20.5	5.7				5.1		2.6	2.6		60.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
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 Combat 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 currently providing an indications and warnings capability to U.S. Forces in Korea. ARL is configured to allow interoperability with other Army and DOD Intell nodes such as Common Ground Station (CGS) and Tactical Exploitation System (TES). ARL uses Tactical Common Data Links (TCDL) to provide Line of Sight (LOS) communication and Joint Tactical Terminals (JTT) to provide intelligence data thru the Tactical Information Broadcast Service (TIBS)and Tactical Reconnaissance Intelligence Exchange System (TRIX) networks. ARL contributes directly to the success of Army Transformation by serving as an operational platform for verification of new or improved technologies necessary for the Future Force Aerial Common Sensor. ARL will continue to support current operations until they are replaced by ACS beginning in FY 2009.

Justification:
There is no FY2006/2007 Budget Request.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AH-64 MODS (AA6605)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
AA6670, AA0951, AA0978, PE23744 D508, D12 & D17

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	709.1	125.9	69.9	40.4	580.4	820.1	649.8	594.4	636.8	609.6	4536.4	9372.8
Less PY Adv Proc						19.0	19.0	18.0	9.0	8.9	63.8	137.7
Plus CY Adv Proc					19.0	19.0	18.0	9.0	8.9	9.1	54.7	137.7
Net Proc (P-1)	709.1	125.9	69.9	40.4	599.4	820.1	648.8	585.4	636.7	609.8	4527.3	9372.8
Initial Spares					1.5	2.0	2.0	2.0	2.0	2.0		11.5
Total Proc Cost	709.1	125.9	69.9	40.4	600.9	822.1	650.8	587.4	638.7	611.8	4527.3	9384.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Apache Attack Helicopter fleet consists of 203 AH-64A and 501 AH-64D model Apache, attack helicopters equipped with a single main rotor, twin engines, and a tandem cockpit. 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 AH-64 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 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 is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, and a fire and forget Longbow HELLFIRE missile.

Justification:
Apache Modernizations provide near term improvements to the Apache fleet focusing on reliability and safety (R&S) upgrades and addressing operational deficiencies. The Modernized TADS/PNVS (M-TADS/PNVS) program provides a second generation FLIR (SGF) sensor suite to the Apache. The SGF enhancements, over the present Apache FLIR, include increased range for detection, recognition and identification of targets; higher resolution and improved sensitivity for improved safety and pilotage performance, especially in adverse weather; increased capability to identify friend versus foe during hostilities; and increased reliability with a corresponding reduction in Operating and Support Cost. 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. The Block III Modernization is a spiral integration of block modifications providing the capabilities for the Longbow Apache to transition to the future force, to increase survivability, and reduce the logistics footprint. Block III satisfies the updated Longbow Apache Operational Requirements Document (ORD) requirements for modernization.

FY 2006 / FY 2007 funds procure TADS/PNVS Upgrades, Miscellaneous mods for the AH-64A, M-TADS/PNVS, IAFS, R&S modifications, Selected Component Recapitalization, FCR Obsolescence and Integration, AH-64 Training Devices, Initial Spares and Apache Transformation, AH-64 Block II Upgrade and AH-64 Post Production Organic Support.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: AH-64 MODS (AA6605)

Program Elements for Code B Items:

Code:

Other Related Program Elements: AA6670, AA0951, AA0978, PE23744 D508, D12 & D17

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
TADS/PNVS Upgrades											
1-94-01-2005		94.8	13.5	13.2	7.8	9.6	11.0	0.0	0.0	0.0	149.9
AH-64A MISC Mods $5M or less (no P3a set)											
		690.6	12.7	11.7	3.4	6.0	6.3	0.0	0.0	0.0	730.7
Apache Transformation											
		18.5	0.0	5.5	3.3	4.5	3.8	0.0	0.0	0.0	35.6
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		45.0	14.2	256.6	206.6	99.0	125.0	0.0	0.0	0.0	746.4
701C Engines (no P3a set)											
		40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
Internal Auxiliary Fuel System (IAFS)											
		0.0	0.0	27.7	23.3	7.4	13.7	35.1	0.0	0.0	107.2
AH-64A Reliability and Safety (R&S)											
		11.0	0.0	90.6	21.1	0.3	2.9	2.9	0.0	0.0	128.8
AH-64D R&S & Selected Component Recap											
		0.0	0.0	114.8	54.9	1.5	0.0	0.0	0.0	0.0	171.2
AH-64D Block III											
		0.0	0.0	0.0	0.0	6.0	110.2	525.5	609.8	4527.4	5778.9
Fire Control Radar (FCR)Obsolescence & Integration											
		0.0	0.0	4.9	4.9	3.8	0.0	0.0	0.0	0.0	13.6

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: AH-64 MODS (AA6605)

Program Elements for Code B Items:

Code:

Other Related Program Elements: AA6670, AA0951, AA0978, PE23744 D508, D12 & D17

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
AH-64 Training Devices		0.0	0.0	44.2	0.0	0.0	0.0	0.0	0.0	0.0	44.2
AH-64 Initial Spares (No P-3a Set)		0.0	0.0	1.5	2.0	2.0	2.0	2.0	2.0	0.0	11.5
AH-64 Block II Upgrade		0.0	0.0	29.0	493.6	508.5	289.2	43.6	0.0	0.0	1363.9
AH64 Post Production Organic Support		0.0	0.0	1.1	1.3	2.1	23.3	29.7	0.0	0.0	57.5
Totals		899.9	40.4	600.8	822.2	650.7	587.4	638.8	611.8	4527.4	9379.4

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Operational, and logistical improvement.
Provides for system upgrade through new/updated hardware integration into Lots III thru XII 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 Block II upgrade (96 aircraft). This mod facilitates maintainers' access to TADS/PNVS systems thereby allowing for accelerated application of outstanding ECPs. Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrade/integration of hardware in the TADS/PNVS.

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

Contract Dates:	FY 2006	Dec 05	FY 2007	Dec 06	FY 2008
Delivery Date:	FY 2006	Jan 06	FY 2007	Jan 07	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	402		64		35		36		36		24								597	
T/P FFP/T&M/CFE/O&A	0	66.0		10.7		7.0		7.0		7.6		7.0								105.3
Installation Kits, Nonrecurring	0																			
Equipment (GFE)	0	28.0		2.2		5.3				1.4		2.0								38.9
Other	0	0.8		0.6		0.9		0.8		0.6		2.0								5.7
..	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	274																		274	
FY2003 Equip -- Kits	60																		60	
FY2004 Equip -- Kits	60		8																68	
FY2005 Equip -- Kits	0		56		8														64	
FY2006 Equip -- Kits	0				35														35	
FY2007 Equip -- Kits	0						24		12										36	
FY2008 Equip -- Kits	0								24		12								36	
FY2009 Equip -- Kits	0										24								24	
TC Equip- Kits	0																			
Total Installment	394	0.0	64	0.0	43	0.0	24	0.0	36	0.0	36	0.0		0.0		0.0		0.0	597	0.0
Total Procurement Cost		94.8		13.5		13.2		7.8		9.6		11.0		0.0		0.0		0.0		149.9

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Apache Transformation [MOD 3]

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Funding supports Force Structure requirements and modularity capabilities for both the Active and Reserve Components as a result of Army Aviation Transformation directives

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Apache Transformation [MOD 3]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	0																			
Installation Kits	0																			
Sets, Kits & Outfits (SKO)	0					3.5		3.3		4.5		3.8								15.1
Equipment, Nonrecurring	0	18.5																		18.5
ASL/PLL	0					2.0														2.0
..	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		18.5		0.0		5.5		3.3		4.5		3.8		0.0		0.0		0.0		35.6

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: AH-64A Apache Helicopter

DESCRIPTION/JUSTIFICATION:

The Modernized Target Acquisition & Designation Site/Pilot Night Vision Sensor (M-TADS/PNVS) modification program is a U.S. Army initiative to provide a Second Generation Forward Looking Infrared (FLIR) (SGF) sensors suite for the Army's fleet of Apache aircraft. Suite modifications encompass: M-TADS/PNVS Line Replaceable Unit (LRU), TADS Electronic Display and Control (TEDAC) assemblies, and the Improved Helmet Display Sight System (IHDSS) assemblies. The SGF system improves overall pilotage of the aircraft and enhances the pilot's ability to engage targets during night operations and adverse weather conditions. Improvements over the present Apache FLIR include: increased range for detection, enhanced recognition and identification of targets; higher resolution and improved sensitivity for improved safety and pilotage performance (especially in adverse weather); increased capability to identify friend versus foe during hostilities; and increased reliability with a corresponding reduction in O&S costs. The complimentary TEDAC and IHDSS upgrades enhance the overall war fighting capability of the Apache aircraft by: 1) significantly enhancing the pilot's visibility and safety; 2) providing improved clarity and ability to fly and navigate; 3) improving aircraft survivability with increased standoff ranges; and 4) reducing the risk of fratricide. Funds will procure 557 of 704 M-TADS. Balance of 147 to be procured with Longbow Apache Funds. M-TADS installation costs are not separately priced within the contract. Other Support procures TDA Salaries, In-house Matrix and Contractor Support for Apache Project Manager's Office.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	0	0	2	0	0	2	0	0	2	2	2	15	56	56	51	40	56	44	25	25
Outputs	0	0	0	2	0	0	2	0	0	0	2	2	17	56	48	59	40	56	44	18	32

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	29	29	29	30	35	27												557
Outputs	28	24	17	48	48	13	1											557

METHOD OF IMPLEMENTATION: Contract Lot 3 ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 23 Months

Contract Dates:	FY 2006	Nov 05	FY 2007	Nov 06	FY 2008
Delivery Date:	FY 2006	Oct 07	FY 2007	Aug 08	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	0																			
Installation Kits	0																			
Installation Kits, Nonrecurring	0																			
Equipment	4	23.6	6	7.2	150	195.1	186	172.9	91	83.4	120	109.0							557	591.2
Equipment, Nonrecurring	0	21.4																		21.4
Other (TEDAC/IHDSS/OTHER)	0			7.0		41.5		21.5		10.7		11.0								91.7
Other Support	0					20.0		12.2		4.9		5.0								42.1
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip 4 Kits	0		2		2														4	
FY2005 Equip 6 Kits	0						6												6	
FY2006 Equip 150 Kits	0						15		135										150	
FY2007 Equip 186 Kits	0								68		118								186	
FY2008 Equip 91 Kits	0										32		59						91	
FY2009 Equip 120 Kits	0												58		62				120	
TC Equip- 0 Kits	0																			
Total Installment	0	0.0	2	0.0	2	0.0	21	0.0	203	0.0	150	0.0	117	0.0	62	0.0		0.0	557	0.0
Total Procurement Cost		45.0		14.2		256.6		206.6		99.0		125.0		0.0		0.0		0.0		746.4

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

FY06-10 funding will procure 413 Internal Auxiliary Fuel System (IAFS) Combo-paks and 45 A-Kits (smaller A-kit quantity purchased due to prior year procurements) that meet the requirements established by Task Force Hawk, as approved for incorporation by the VCSA. The system is ballistically tolerant, crashworthy, self sealing and increases aircraft mission endurance by increasing fuel capacity by 100 gallons. This additional capacity provides increased mission time of 30-45 minutes which keeps the Apache in the fight longer and reduces Forward Area Refuel Point (FARP) iterations. The Combo-pak also has a 246 round 30mm capacity which meets critical operational needs associated with current operations in OIF/OEF as well as future contingencies. During ongoing OIF/OEF requirements the AH-64 in the Quick Reaction Force (QRF) and in support of Close Combat missions the Apache is required to remain on station longer to protect ground troops with immediate suppression by the 30mm weapon. 210 A-kits installed in FY06 were funded and purchased as part of Longbow Apache profile (SSN AA6670)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

November 05 Contract Award scheduled.

Installation Schedule:

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

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		255
Outputs																		255

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

Contract Dates:	FY 2006	Nov 05	FY 2007		FY 2008
Delivery Date:	FY 2006	Feb 06	FY 2007		FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
A Kits					45	1.0													45	1.0
B Kits					108	23.2	96	21.4	30	7.0	48	11.8	131	33.8					413	97.2
Support Equipment						2.2		1.6		0.4		1.9		1.3						7.4
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 210 Kits					210	1.3													210	1.3
FY 2007 Equip 45 Kits							45	0.3											45	0.3
FY 2008 Equip Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	210	1.3	45	0.3		0.0		0.0		0.0		0.0		0.0	255	1.6
Total Procurement Cost		0.0		0.0		27.7		23.3		7.4		13.7		35.1		0.0		0.0		107.2

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: AH-64A Reliability and Safety (R&S) [MOD 7]

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION/JUSTIFICATION:

The AH-64A R&S effort is a major component of the Apache Recapitalization Program, as approved by the VCSA and the AAE, 10 April 2002. R&S modifications to 203 A Model aircraft will be accomplished by field retrofit. The overall goal of the A Model R&S program is to improve safety and enhance aircraft performance by increasing unscheduled mean time between removal (MTBR) for selected components. The principal improvements will focus on: main transmission, rotor blades, gear boxes and hydraulic systems. The modification program and schedule is driven by Firm Fixed Price Options that should be exercised in FY's 06/07 to avoid renegotiation which would result in a cost increases; material long lead times and economic order quantity material buys concurrent with the AH-64D R&S/Recap program; and the operational readiness requirements of the Army, i.e. only 8 aircraft per month to maintain acceptable readiness.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Nov 05 - R & S Contract Option
Nov 06 - R & S Contract Option

Installation Schedule:

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

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	24	24	24	24														203
Outputs	24	24	24	24														203

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 32 Months

Contract Dates:	FY 2006	Nov 05	FY 2007	Nov 06	FY 2008
Delivery Date:	FY 2006	July 08	FY 2007	May 10	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): AH-64A Reliability and Safety (R&S) [MOD 7]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					157	85.2	46	21.1											203	106.3
Non-recurring engineering		11.0																		11.0
Other Support						5.4														5.4
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 157 Kits									11	0.3	96	2.9	50	1.5					157	4.7
FY 2007 Equip 46 Kits													46	1.4					46	1.4
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0	11	0.3	96	2.9	96	2.9		0.0		0.0	203	6.1
Total Procurement Cost		11.0		0.0		90.6		21.1		0.3		2.9		2.9		0.0		0.0		128.8

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: AH-64D R&S & Selected Component Recap [MOD 8]

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This AH-64D modification effort is a major part of the Apache Recapitalization Program. Funding will recapitalize selected aircraft components and insert Reliability and Safety (R&S) modifications for the remaining 212 (of 501) Apache D model aircraft, as approved by the VCSA and the AAE, 10 April 2002. Modifications will be accomplished on the production line (FY06 only) and through field retrofit and spares. The program also includes select Task Force Hawk initiatives (i.e., HF Radio, Video, and New Video Recorder). The selected component recap fixes were identified through a Sandia National Laboratory analysis of components coupled with the results of a nonrecurring engineering analysis of components. These assessments ensure that the recapitalization resources are focused on the highest payoff components. In summary, the goal of this modification program is to improve safety, maximize marginal return on recapped components, increase the 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 Apache Project Manager's Office.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Nov 05 - Contract Option

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs						18	24	24	24	18	18	18	18	18	18	14					
Outputs						18	24	24	24	18	18	18	18	18	18	14					

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		212
Outputs																		212

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 1 Months

Contract Dates:	FY 2006	Nov 05	FY 2007	Nov 06	FY 2008
Delivery Date:	FY 2006	Dec 05	FY 2007	Dec 06	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): AH-64D R&S & Selected Component Recap [MOD 8]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					139	102.1	73	52.7											212	154.8
Other Support						10.0														10.0
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 139 Kits					90	2.7	49	1.5											139	4.2
FY 2007 Equip 73Kits							23	0.7	50	1.5									73	2.2
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	90	2.7	72	2.2	50	1.5		0.0		0.0		0.0		0.0	212	6.4
Total Procurement Cost		0.0		0.0		114.8		54.9		1.5		0.0		0.0		0.0		0.0		171.2

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: AH-64 Training Devices [MOD 11]

MODELS OF SYSTEM AFFECTED: AH-64D Longbow Apache

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Award - Second Quarter FY 06.

Installation Schedule:

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

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

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

Contract Dates:	FY 2006	March 06	FY 2007		FY 2008
Delivery Date:	FY 2006	June 06	FY 2007		FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): AH-64 Training Devices [MOD 11]

FINANCIAL PLAN: ($ in Millions)

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: AH-64 Block II Upgrade [MOD 13]

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Funding for the AH-64 Block II Upgrade supports the revised Modernized Strategy for the Apache Helicopter which was approved by the VCSA 1 Nov 2004. The plan allows for the remanufacture of 96 AH-64A aircraft to the AH-64D (lot 10) 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.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Award Lot 1 - October 2007

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Firm Fixed Price Contract ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 12 Months

Contract Dates:	FY 2006	FY 2007	Oct 07	FY 2008
Delivery Date:	FY 2006	FY 2007	Oct 08	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): AH-64 Block II Upgrade [MOD 13]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Kit Quantity							36		36		24								96	
Equipment								438.0		452.0		264.0								1154.0
Long Lead Items						19.0		19.0		12.0										50.0
Other Supoort						10.0		36.6		44.5		25.2								116.3
Training														43.6						43.6
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits									36										36	
FY 2008 Equip -- 36 Kits											36								36	
FY 2009 Equip -- 36 Kits													24						24	
FY 2010 Equip -- 24 Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0	36	0.0	36	0.0	24	0.0		0.0		0.0	96	0.0
Total Procurement Cost		0.0		0.0		29.0		493.6		508.5		289.2		43.6		0.0		0.0		1363.9

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AH-64 MODS(Adv Proc) (AA6605)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc					19.0	19.0	18.0	9.0	8.9	9.1	54.7	137.7
Net Proc (P-1)					19.0	19.0	18.0	9.0	8.9	9.1	54.7	137.7
Initial Spares												
Total Proc Cost					19.0	19.0	18.0	9.0	8.9	9.1	54.7	137.7
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
Justification:
FY06 and FY07 Advanced Procurement funds support deliveries of airframes for AH-64A Apaches which will be remanufactured to the common AH-64D configuration.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:

First System Completion Date:

Date: February 2005

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 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Qty - AH-64 Block II & Block III								36	36	36	38	60	391	597
Airframe - AH-64 Block II Upgrade	12	12					19.0	19.0	12.0					50.0
AH-64 Block III	12	12							6.0	9.0	8.9	9.1	54.7	87.7
Total Advance Procurement			0.0	0.0	0.0	0.0	19.0	19.0	18.0	9.0	8.9	9.1	54.7	137.7

End Item Quantities for AH-64 Block II Upgrade and AH-64 Block III Programs are as follows:
AH-64 Block II Upgrade (FY07-36 Aircraft); (FY08-36 Aircraft); (FY09-24 Aircraft)
AH-64 Block III Program (FY09-12 Aircraft); (FY10-38 Aircraft); (FY11-60 Aircraft) (To Complete-391 Aircraft)

Advance Procurement Requirements Analysis-Funding (P10B)

Date: February 2005

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	2006 Qty	2006 Contract Forcast Date	2006 Total Cost Request	2007 Qty	2007 Contract Forcast Date	2007 Total Cost Request
End Item Quantity:									
Airframe - AH-64 Block II Upgrade	12			36	1Q FY06	19.000	36	1Q FY07	19.000
AH-64 Block III	12								
Total Advance Procurement						19.000			19.000

Advance Procurement Requirements Analysis-Execution (P10D)

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

($ in Millions)

	PTL (mos)	2004 Qty	2004 Contract Forecast Date	2004 Actual Contract Date	2004 Total Cost Request	2004 Actual Contract Cost	2005 Qty	2005 Contract Forecast Date	2005 Actual Contract Date	2005 Total Cost Request	2005 Actual Contract Cost	2006 Qty	2006 Contract Forecast Date	2007 Qty	2007 Contract Forecast Date
End Item Qty - AH-64 Block II & Block III															
Airframe - AH-64 Block II Upgrade	12											36	1Q FY06	36	1Q FY07
AH-64 Block III	12														
Total Advance Procurement					0.0	0.0				0.0	0.0				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
CH-47 CARGO HELICOPTER MODS (AA0252)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
RDTE PE 0203744A

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	4329.6	720.7	511.0	854.1	675.1	612.2	753.3	1042.2	859.6	965.6	6424.2	17747.6
Less PY Adv Proc	940.0	13.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	334.1	1532.2
Plus CY Adv Proc	953.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	42.4	291.6	1532.2
Net Proc (P-1)	4343.6	728.0	510.2	857.4	676.0	622.4	755.7	1045.0	861.7	965.9	6381.8	17747.6
Initial Spares					1.5	2.0	2.0	2.0	2.0	2.0		11.5
Total Proc Cost	4343.6	728.0	510.2	857.4	677.5	624.4	757.7	1047.0	863.7	967.9	6381.8	17759.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the War On Terrorism and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2025 timeframe. The CH-47F recapitalization program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. Key modifications integrate a new-machined airframe, an upgraded T55-GA-714A engine to restore performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital AFCS, and an Extended Range Fuel System II for self-deployment missions. The CH-47F program extends the Army's Chinook fleet useful life 20 years incorporating reliability and maintainability improvements including airframe tuning for vibration reduction, corrosion protection, digital source collectors, and an automated maintenance program with a 400-hour phase interval. The recapitalization program rebuilds and upgrades all CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration. In addition to recapitalization, a new build program will add new Chinooks to the inventory starting in FY06. These programs are funded to meet the Army Aviation Transformation Plan full requirement for Chinook aircraft.

Justification:
FY 2006/2007 funding procures safety and operational modifications to the CH-47D fleet and trainers to maintain the latest configuration. Safety and operational modifications, to include component recapitalization, are planned for all fielded aircraft. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications are Conversion of the T55-L-712 to T55-GA-714A Engines, Engine Fire Extinguisher, Engine Filtration System, Low Maintenance Rotor Head, Aviation Combined Arms Tactical Trainer and conversion of 30 CH-47Ds to CH-47Fs, 4 new build CH-47Fs, 12 MH-47G Special Operations Aircrafts, Ballistic Protection Systems, Blade Fold Kits, and Special Test Sets, Kits and Outfits to equip new Chinook units forming under the Army's Aviation Transformation Plan.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: CH-47 CARGO HELICOPTER MODS (AA0252)

Program Elements for Code B Items:

Code:

Other Related Program Elements: RDTE PE 0203744A

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Engine Filtration System											
1-93-01-0807	Operational	19.9	6.7	7.7	6.8	10.3	14.7	14.5	16.5	1.0	98.1
Engine Upgrade to T55-GA-714A Configuration											
1-96-01-0828	Operational	760.9	165.3	148.0	64.7	5.6	0.0	0.0	0.0	0.0	1144.5
CH-47F											
0-00-00-0000	Operational	808.7	623.9	469.2	486.5	672.9	961.7	795.7	906.9	6089.1	11814.6
Low Maintenance Rotor Hub											
0-00-00-0000	Operational	16.1	9.7	10.1	11.4	10.8	11.4	0.0	0.0	0.0	69.5
Engine Fire Extinguisher (Halon Replacement)											
0-00-00-0000	Operational	0.0	2.6	7.2	8.4	8.5	8.6	9.5	0.0	0.0	44.8
Aviation Combined Arms Tactical Trainer (AVCATT)											
0-00-00-0000		0.0	0.0	4.3	4.1	3.6	0.0	0.0	0.0	0.0	12.0
Ballistic Protection, Blade Fold Kits, SKOs											
0-00-00-0000	Safety	0.0	24.3	5.1	5.7	6.8	8.6	0.0	0.0	0.0	50.5
Totals		1605.6	832.5	651.6	587.6	718.5	1005.0	819.7	923.4	6090.1	13234.0

INDIVIDUAL MODIFICATION Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

Contract Dates:	FY 2006	Jan 06	FY 2007	Jan 07	FY 2008
Delivery Date:	FY 2006	Jan 07	FY 2007	Jan 08	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
B-Kit Quantity	47	14.4	16	5.5	19	6.4	16	5.5	25	8.8	36	12.9	35	12.8	39	14.6			233	80.9
A-Kits	337	3.8																	337	3.8
Logistics	0	0.7		0.7		0.8		0.9		0.9		0.9		0.9		0.9				6.7
PM Support	0	0.8		0.3		0.3		0.3		0.4		0.6		0.6		0.7				4.0
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	26	0.2	9	0.1															35	0.3
FY2003 Equip -- Kits	0		10	0.1	26	0.2	17	0.1	25	0.2	37	0.3	30	0.2	8	0.1	27	0.2	180	1.4
FY2004 Equip -- Kits	0														26	0.2	96	0.8	122	1.0
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	26	0.2	19	0.2	26	0.2	17	0.1	25	0.2	37	0.3	30	0.2	34	0.3	123	1.0	337	2.7
Total Procurement Cost		19.9		6.7		7.7		6.8		10.3		14.7		14.5		16.5		1.0		98.1

INDIVIDUAL MODIFICATION Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

Contract Dates:	FY 2006	Jan 06	FY 2007	Jan 07	FY 2008
Delivery Date:	FY 2006	Jun 07	FY 2007	Jun 08	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
New Engines	749	570.6	160	129.7	147	121.3	69	57.9											1125	879.5
Engine Fielding Kits	663	77.4	142	15.8	79	9.1													884	102.3
Airframe Kits	371	36.0	48	5.7	23	2.8													442	44.5
PM Admin Support	0	28.6		5.5		4.6		3.9		1.7										44.3
Logistics	0	35.6		5.2		5.5		0.9		1.7										48.9
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	262	12.7	13	0.9															275	13.6
FY2003 Equip -- Kits	0		37	2.5	11	0.7													48	3.2
FY2004 Equip -- Kits	0				48	3.3													48	3.3
FY2005 Equip -- Kits	0				10	0.7	29	2.0	9	0.6									48	3.3
FY2006 Equip -- Kits	0								23	1.6									23	1.6
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	262	12.7	50	3.4	69	4.7	29	2.0	32	2.2		0.0		0.0		0.0		0.0	442	25.0
Total Procurement Cost		760.9		165.3		148.0		64.7		5.6		0.0		0.0		0.0		0.0		1144.5

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION/JUSTIFICATION:

As the Army's only heavy-lift helicopter capable of intra-theater cargo movement of payloads up to 16,000 lb in a high, hot environment, the CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. This budget line for the CH-47F program procures 510 aircraft out of the Army's Aviation Transformation Chinook total requirement of 513 aircraft. Three MH-47G aircraft were procured previously with unique Special Operations/Congressional funding outside of this budget line item. The total requirement of 513 aircraft consists of 55 new build CH-47Fs, 61 special operations MH-47Gs (which includes the three unique Special Operations/Congressionally funded helicopters mentioned above) and 397 remanufactured CH-47Fs. The CH-47F program installs a new digital cockpit, incorporates all new airframe components, and modifies the aircraft to reduce vibration. The CH-47F Common Avionics Architecture System (CAAS) digital cockpit will provide future growth potential, include a digital data bus that permits installation of enhanced communications and navigation equipment for improved situational awareness, mission performance, and survivability. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

Contract Dates:	FY 2006	Dec 05	FY 2007	Mar 07	FY 2008
Delivery Date:	FY 2006	Dec 06	FY 2007	Mar 08	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Recurring Production (New Build)	7	177.7	10	242.6	2	48.1	2	48.5	2	49.1	12	296.6	4	99.7	7	176.5	9	236.2	55	1375.0
Recurring Production (Mods)	23	393.3	16	215.3	21	329.7	21	346.9	29	496.8	31	541.3	32	578.5	33	603.9	249	4846.4	455	8352.1
Other Flyaway		178.9		40.4		33.7		37.8		59.4		60.0		56.3		58.2		359.0		883.7
Training		48.7		34.4		21.7		21.1		31.8		21.9		22.4		22.8		29.8		254.6
Other Support		9.0		87.9		30.9		28.4		29.4		34.9		29.0		36.4		547.6		833.5
Support Equipment		1.1		3.3		5.1		3.8		6.4		7.0		9.8		9.1		70.1		115.7
--																				
--																				
--																				
--																				
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		808.7		623.9		469.2		486.5		672.9		961.7		795.7		906.9		6089.1		11814.6

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: CH-47D&F

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Critical Design Review (CDR) - Dec 00
Production Contract Award - Mar 04
LMRH Production Contract Award - Mar 05

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Low Maintenance Rotor Head	0	11.3		8.5		8.9		11.1		10.5		11.1								61.4
Training	0	0.5		0.6		0.6														1.7
Logistics	0	3.8		0.3		0.3														4.4
PM Support	0	0.5		0.3		0.3		0.3		0.3		0.3								2.0
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		16.1		9.7		10.1		11.4		10.8		11.4		0.0		0.0		0.0		69.5

INDIVIDUAL MODIFICATION Date: February 2005

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 MILESTONES:

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0							31	43	21	21	21	22	21	21	21	22	21	21	21	22
Outputs	0							31	43	21	21	21	22	21	21	21	22	21	21	21	22

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

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

Contract Dates:	FY 2006	Jan 06	FY 2007	Jan 07	FY 2008
Delivery Date:	FY 2006	Jun 06	FY 2007	Jun 07	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
A-Kit Quantity	0				74	2.1	85	2.4	85	2.5	85	2.5	92	2.8					421	12.3
Engineering Support	0			2.5		0.2		0.2		0.1		0.1		0.1						3.2
Logistics	0					0.1		0.2		0.2		0.2		0.2						0.9
PM Support	0			0.1		0.2		0.2		0.2		0.2		0.2						1.1
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0				74	4.6													74	4.6
FY2007 Equip -- Kits	0						85	5.4											85	5.4
FY2008 Equip -- Kits	0								85	5.5									85	5.5
FY2009 Equip -- Kits	0										85	5.6							85	5.6
TC Equip- Kits	0												92	6.2					92	6.2
Total Installment	0	0.0		0.0	74	4.6	85	5.4	85	5.5	85	5.6	92	6.2		0.0		0.0	421	27.3
Total Procurement Cost		0.0		2.6		7.2		8.4		8.5		8.6		9.5		0.0		0.0		44.8

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Aviation Combined Arms Tactical Trainer (AVCATT) [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

AVCATT-A is a new aviation collective training virtual simulation system specifically designed to help commanders achieve and sustain unit proficiency and combat readiness and to support leader development training at the institution. System capabilities directly support "train as you fight" and allow commanders to focus on and tailor training to specific battle focused training requirements. Units will train as units, not as individuals or aircrews. Commanders and staff personnel will plan and command and control, and aircrews will plan and execute. Training will be observed, recorded, evaluated, and repeated as necessary to train tasks to standard and to reach the desired level of proficiency at the desired level of complexity.

AVCATT-A will be a mobile, transportable, trailerized virtual simulation training system that will provide aviation with the capability to conduct realistic, high intensity, task-loaded collective and combined arms training exercises and mission rehearsals. It will support institutional, organizational, and sustainment training for Active Component (AC) and Reserve Component (RC) aviation units worldwide. The baseline AVCATT configuration is designed to include the CH-47D, and development is funded by STRICOM. It is the responsibility of PM Cargo to fund the development of concurrency upgrades stemming from the introduction of the CH-47F.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Aviation Combined Arms Tactical Trainer (AVCATT) [MOD 6] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Trainer Upgrades	0						9	4.0	8	3.5									17	7.5
Engineering Support	0					4.1														4.1
Logistics	0					0.2		0.1		0.1										0.4
PM Support	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		4.3		4.1		3.6		0.0		0.0		0.0		0.0		12.0

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Ballistic Protection, Blade Fold Kits, SKOs [MOD 7] 0-00-00-0000

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

DESCRIPTION/JUSTIFICATION:

Type of Improvements - Improved Operational and Safety Capability.
Ballistic Protection System (BPS). This funding provides a mission flexible Ballistic Protection System (BPS) to protect crews, passengers, cargo and critical aircraft components from small arms damage. This survivability system was designed and implemented under contract through U.S. Special Forces for the 160th SOAR. In the CH-47D/F the system is modularly designed to fly with 100 percent of troop seat configurations, crew and troop areas, or crew area only. Full weight is about 2500 pounds. Few aircraft modifications are required to apply the BPS. The majority of this effort will involve adapter/mounting brackets which are bolted into place to mount the plates. This modification will be performed by unit level maintenance personnel. Once the aircraft is modified for BPS, two soldiers can install the BPS in approximately 90 minutes. Blade Fold Kits. This funding purchases existing blade folding racks for both CH-47D and CH-47F aircraft. Currently aircraft have no means to quickly fold and store the blades during shipboard operations. Sets, Kits and Outfits. This funding procures initial start-up tooling and equipment to facilitate unit reorganizations as part of the Army Aviation Transformation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Ballistic Protection, Blade Fold Kits, SKOs [MOD 7] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Crew B-Kits (Blankets)	0		10	0.6					10	0.6	15	0.9							35	2.1
Passenger (PAX) B-Kits (Blankets)	0		10	0.7					10	0.8	15	1.2							35	2.7
A-Kits	0		80	0.4	75	0.4	102	0.6	80	0.5	80	0.5							417	2.4
Blade Fold Kits	0		55	1.1	10	0.2	20	0.4	20	0.4	20	0.4							125	2.5
SKOs	0			21.5		4.5		4.7		4.5		5.6								40.8
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		24.3		5.1		5.7		6.8		8.6		0.0		0.0		0.0		50.5

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
CH-47 CARGO HELICOPTER MODS(Adv Proc) (AA0252)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	953.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	42.4	291.6	1532.2
Net Proc (P-1)	953.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	42.4	291.6	1532.2
Initial Spares												
Total Proc Cost	953.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	42.4	291.6	1532.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
As the Army's only heavy-lift helicopter capable of intra--theater cargo movement of payloads up to 16,000 lb in a high, hot environment, the CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. The CH-47F program installs a new digital cockpit, incorporates all new airframe components, and modifies the aircraft to reduce vibration. The CH-47F Common Avionics Architecture System (CAAS) digital cockpit will provide future growth potential; 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.

Justification:
FY 2006/2007 funding procures long lead time parts and materials required to preserve the production delivery schedule.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:

First System Completion Date:

Date: February 2005

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 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
Avionics	13	14	9.1	13.6	13.1	15.4	16.0	22.7	24.2	26.0	27.3	27.5	189.6	384.4
Airframe	15	16	4.9	7.6	7.3	8.3	8.7	12.2	13.0	14.0	14.7	14.9	102.1	207.8
Total Advance Procurement			13.9	21.2	20.4	23.7	24.7	34.9	37.3	40.0	42.1	42.4	291.6	592.1

Advance Procurement Requirements Analysis-Funding (P10B)

Date: February 2005

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	2006 Qty	2006 Contract Forcast Date	2006 Total Cost Request	2007 Qty	2007 Contract Forcast Date	2007 Total Cost Request
End Item Quantity:									
Avionics	13	1	1.234			16.048		0	22.656
Airframe	15	1	0.580			8.641		0	12.199
Total Advance Procurement						24.689			34.855

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UTILITY/CARGO AIRPLANE MODS (AA0270)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	56.3	16.4	9.2	10.1	13.6	9.8	7.0	6.5	10.1	10.4		149.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.3	16.4	9.2	10.1	13.6	9.8	7.0	6.5	10.1	10.4		149.3
Initial Spares												
Total Proc Cost	56.3	16.4	9.2	10.1	13.6	9.8	7.0	6.5	10.1	10.4		149.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
This modification 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 into the 21st Century.

Justification:
FY 2006/2007 procures communications, navigation, and surveillance equipment that supports current and future Air Traffic Management requirements. In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrade will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirements for new avionics equipment continue, aircraft delays and airspace exclusion are likely for aircraft not properly equipped. Upgrade of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UTILITY/CARGO AIRPLANE MODS (AA0270)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Avionics System Cockpit Upgrade											
1-96-01-0612	UNCLASSIFIED	81.9	10.1	13.6	9.8	7.0	6.5	10.1	10.4	0.0	149.4
Totals		81.9	10.1	13.6	9.8	7.0	6.5	10.1	10.4	0.0	149.4

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: C-31A, UV-18, C-12F3, D1, D2, T, J, R, U; RC-12K, N, P, Q, D, H; C-26; UC-35A, B; 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 MILESTONES:

Development is not required for Avionics System Cockpit Upgrade.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	83				9			10	7			9				20	21			2	2
Outputs	83					9			10	7			9				20	21			2

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			10	17			10	18										218
Outputs	2			10	17			10	18									218

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	0																			
Installation Kits	83	58.6	9	5.0	17	10.6	9	7.4	41	4.1	4	3.8	27	6.3	28	6.0			218	101.8
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0	0.4		0.1		0.1		0.1		0.1		0.1		0.1		0.1				1.1
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	**0**																			
FY2004 & Prior Equip -- Kits	83	22.9																	83	22.9
FY2005 Equip -- Kits	0		9	5.0															9	5.0
FY2006 Equip -- Kits	0				17	2.9													17	2.9
FY2007 Equip -- Kits	0						9	2.3											9	2.3
FY2008 Equip -- Kits	0								41	2.8									41	2.8
FY2009 Equip -- Kits	0										4	2.6							4	2.6
FY2010 Equip -- Kits	0												27	3.7					27	3.7
FY2011 Equip -- Kits	0														28	4.3			28	4.3
TC Equip-Kits																				
Total Installment	83	22.9	9	5.0	17	2.9	9	2.3	41	2.8	4	2.6	27	3.7	28	4.3		0.0	218	46.5
Total Procurement Cost		81.9		10.1		13.6		9.8		7.0		6.5		10.1		10.4		0.0		149.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	12.8	1.1	0.9	0.8	0.8	0.8	0.6	0.6	0.8	0.8		20.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.8	1.1	0.9	0.8	0.8	0.8	0.6	0.6	0.8	0.8		20.0
Initial Spares												
Total Proc Cost	12.8	1.1	0.9	0.8	0.8	0.8	0.6	0.6	0.8	0.8		20.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
This modification 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 2006/2007 procures new C-20/C-37 Communication, Navigation, and Surveillance equipment needed to support the crew in meeting the demands of the future air navigation system. Funds will be used to meet evolving avionics requirements resulting from worldwide navigation transition to Global Positioning System (GPS) enroute and approach systems, and Chairman of the Joint Chief of Staff Master Navigation Plan requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	344	74	64	19								501
Gross Cost	4453.2	884.9	786.9	661.0	84.5							6870.6
Less PY Adv Proc	324.6	32.0	46.1	14.1								416.9
Plus CY Adv Proc	356.7	46.1	14.1									416.9
Net Proc (P-1)	4485.3	899.0	754.9	646.9	84.5							6870.6
Initial Spares	43.2	1.9	6.5	7.1								58.6
Total Proc Cost	4528.4	900.9	761.4	654.0	84.5							6929.3
Flyaway U/C												
Wpn Sys Proc U/C		12.1	11.8	34.0								

Description:
The Longbow Weapon System (AH-64D) consists of a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, and a fire and forget Longbow HELLFIRE missile. The 18 October 95 Acquisition Decision Memorandum authorized Longbow Apache to proceed into production and award of single year contract not to exceed quantity of 18 aircraft in FY96. A Multi-Year II Contract (FY01-FY05) was signed on 29 September 2000. Airframe quantities and funding reflect the multi-year (MY) scenario. Multiyear contracts for the FCR mission kit were signed in Nov 97. Quantities and funding reflect this multiyear scenario. 501 AH-64A Apaches will be remanufactured to the AH-64D configuration with 227 Longbows being equipped with the FCR/RFI mission kits and 701C engines. Two hundred twenty-seven AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR mission kits. Those AH-64D aircraft fielded without the FCR/RFI mission kits will have the T700-GE-701 engines, but can accept the FCR/RFI mission kit with the addition of T700-GE-701C engines. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The weapon system will effectively engage and destroy advanced threat armor on the AirLand Battlefield of the 21st century. To be effective and survive on this future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures (CMs). Funding provides for the procurement of 501 Modernized Target Acquisition Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS)for the Longbow fleet. Provides funding, starting in FY05, for the initiation of non-recurring engineering for Longbow Block III.

Justification:
FY06 procures 55 M-TADS/PNVS production units and aasociated sensor displays.. With the exception of the $84.513 in FY06, all Apache funds have been consolidated in the budget line AH-64 Mods.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
LONGBOW APACHE MODS (AA6607)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
SSNs AA6670/6608, PE273744 D508, D12 & D17

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	344	74	64	19								501
Gross Cost	3643.2	859.7	770.1	656.2	84.5							6013.7
Less PY Adv Proc	225.9	32.0	46.1	14.1								318.2
Plus CY Adv Proc	258.0	46.1	14.1									318.2
Net Proc (P-1)	3675.2	873.8	738.0	642.1	84.5							6013.7
Initial Spares	43.2	1.9	6.5	7.1								58.6
Total Proc Cost	3718.4	875.7	744.5	649.1	84.5							6072.3
Flyaway U/C												
Wpn Sys Proc U/C		11.8	11.5	33.8								

Description:
The Longbow Heavy Attack Helicopter (AH-64D) consists of a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, fire and forget Longbow HELLFIRE missiles, semi-active laser guided missiles, 70MM rockets, and a 30MM chain gun. These changes consist of increased electrical power management system, enhanced navigation and communication systems and MANPRINT Crew station. The AH-64A airframe is remanufactured to integrate the FCR/RFI mission kit and share the data within the tactical internet. AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR/RFI mission kit. Those AH-64D aircraft fielded without the FCR mission kits will have the T700-GE-701 engines, but can accept the FCR mission kit with the addition of T700-GE-701C engines. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The weapon system will effectively engage and destroy advanced threat armor on the Air Land Battlefield of the 21st century. To be effective and survive on this future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures. Funding provides for the procurement of 501 Modernized Target Acquisition Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS)for the Longbow aircraft fleet. Provides funding,in FY05, for the initiation of non-recurring engineering for Longbow Block III.

Justification:
FY06 procures 55 M-TADS/PNVS. With the exception of the FY06 HTI M-TADS/PNVS funding for the 55 M-TADS/PNVS, all Apache funds have been consolidated in the budget line AH-64 Mods.

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: LONGBOW APACHE MODS (AA6607)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframe																													
	1	FY 02	A	60	35	25	5	5	5	5	5																		0
	1	FY 03	A	74	0	74						5	5	6	6	6	6	6	6	6	6	6	6	4						0
	1	FY 04	A	64	0	64			A															2	6	5	5	5	5	5	31
	1	FY 05	A	19	0	19															A										19
Fire Control Radar (FCR)																															
	2	FY 02	A	57	30	27	6	6	5	5	5																				0
Total				274	65	209	11	11	10	10	10	5	5	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	50

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Boeing , Mesa, AZ	48.00	72.00	120.00	36
2	Longbow Limited Liability , Orlando, FL	48.00	72.00	120.00	36

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	10	3	28	31
	REORDER	2	3	15	18
2	INITIAL	10	2	28	30
	REORDER	2	3	16	19
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: LONGBOW APACHE MODS (AA6607)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07										LATER
							Calendar Year 06												Calendar Year 07										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframe																													
	1	FY 02	A	60	60	0																							0
	1	FY 03	A	74	74	0																							0
	1	FY 04	A	64	33	31	5	5	5	5	5	5	1																0
	1	FY 05	A	19	0	19							4	5	5	5													0
Fire Control Radar (FCR)																													
	2	FY 02	A	57	57	0																							0
Total				274	224	50	5	5	5	5	5	5	5	5	5	5													

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Boeing , Mesa, AZ	48.00	72.00	120.00	36
2	Longbow Limited Liability , Orlando, FL	48.00	72.00	120.00	36

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	10	3	28	31
	REORDER	2	3	15	18
2	INITIAL	10	2	28	30
	REORDER	2	3	16	19
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: LONGBOW APACHE MODS (AA6607)

Program Elements for Code B Items:

Code:

Other Related Program Elements: SSNs AA6670/6608, PE273744 D508, D12 & D17

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Longbow Apache Mods											
NA	NA	4637.6	649.1	84.5	0.0	0.0	0.0	0.0	0.0	0.0	5371.2
Totals		4637.6	649.1	84.5	0.0	0.0	0.0	0.0	0.0	0.0	5371.2

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Longbow Apache Mods [MOD 1] NA

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION/JUSTIFICATION:

The Longbow Weapon System (AH-64D) consists of a modified AH-64A airframe, a Fire Control Radar (FCR)/Radar Frequency Interferometer (RFI) mission kit and a fire and forget Longbow Hellfire missile. The AH-64 aircraft will be modified with those changes necessary to effectively and efficiently integrate the FCR/RFI mission kit. These changes consist of increased electrical power, expanded forward avionics bays, increased cooling, upgraded processors, MANPRINT crew station and 701C engines. These upgrades will significantly enhance warfighting capability and battlefield survivability by providing for advanced digitized avionics and the employment of true fire and forget engagement capablity. Provides funding for Modernized Target Aquisition Designation Sight/Pilot Night Vision Sensor(M-TADS/PNVS) on 501 aircraft starting in FY03. Procures reman/retrofit reliability and safety fixes, and focused component recap on Longbow aircraft. Procures 27 Longbow Crew Trainers (LCTs), one Longbow Collective Training System (LCTS), maintenance trainers, Parts Task Trainers (PTT), and Tactical Engagement Simulation System (TESS). Funding provides for the procurement of Internal Auxiliary Fuel Systems, and Longbow Open System Architecture upgrades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone 1B (DAB) Jul 89,
Milestone II (DAB) Dec 90,
Milestone III(DAB) Oct 95
MY Lot 1 contract award Aug 96,
First Production Delivery Mar 97,
First Unit Equipped Jul 98
IOC Accomplished Nov 98.

MYII Contract Award 29 Sep 00
Funding Action Lot IX 17 Nov 03
Last Production Delivery Jul 06
Initial Block III NRE Contract Award
May 05
Lot X Funding Action Nov 04

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	482		19																501	
Recurring	0	2910.3		148.3																3058.6
Other Flyaway	0	998.4		133.9																1132.3
Training Devices	0	612.8		85.3																698.1
Other Support	0	36.8		40.9																77.7
Modernized TADS/PNVS	0	79.3		183.7		84.5														347.5
Block III Improvements	0			57.0																57.0
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		4637.6		649.1		84.5		0.0		0.0		0.0		0.0		0.0		0.0		5371.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
APACHE LONGBOW FCR (AA6608)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
SSNs AA6670/6607, PE273744 D508, D12 & D17

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	227											227
Gross Cost	810.0	25.2	16.9	4.9								857.0
Less PY Adv Proc	98.7											98.7
Plus CY Adv Proc	98.7											98.7
Net Proc (P-1)	810.0	25.2	16.9	4.9								857.0
Initial Spares												
Total Proc Cost	810.0	25.2	16.9	4.9								857.0
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
For FY 2006 and out, all Apache FCR funds have been consolidated in the budget line AH-64 Mods.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: APACHE LONGBOW FCR (AA6608)

Program Elements for Code B Items:

Code:

Other Related Program Elements: SSNs AA6670/6607, PE273744 D508, D12 & D17

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Apache Longbow FCR											
NA	NA	753.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	758.2
Totals		753.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	758.2

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Apache Longbow FCR [MOD 1] NA

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION/JUSTIFICATION:

Longbow Fire Control Radar (FCR) is a millimeter wave target acquisition system developed for integration on the Apache. FCR provides three tactical modes of operation. Ground Targeting Mode (GTM), Air Targeting Mode (ATM), and Terrain Profile Mode (TPM). In GTM, the FCR provides the capability to rapidly scan up to approximately 50 square kilometers of the battlefield using selectable scan widths which are directionally controllable by the crew. In this mode, the FCR detects, locates, classifies, and prioritizes moving and stationary targets. Targets are classified as air defense units, track vehicles, wheel vehicles, helicopters, fixed wing aircraft, or unknown. It has the capability to detect stationary targets out to a range of six kilometers and moving targets out to eight kilometers. In the ATM, the FCR detects, classifies and prioritizes airborne targets. TPM provides terrain avoidance information to the crew for navigation during periods of reduced visibility. FCR does all the above day or night and during periods of reduced visibility caused by atmospheric conditions and/or battlefield obscuration. Procures a total of 227 FCR/RFI mission kits. FY05 funds are required to continue FCR/RFI mission kit continued integration into the Longbow remanufacture line, post production fielding sustainment, obsolescence resolution.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone 1B (DAB)	Jul 89	Date of last delivery Feb 04
Milestone II (DAB)	Dec 90	
Milestone III (DAB)	Oct 95	
Lot 1 contract award	Mar 96	
First Production Delivery	Mar 97	
Multi-year contract awarded	Nov 97	
Lot VII contract award	28 Dec 01	

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: Modification ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 16 Months

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Apache Longbow FCR [MOD 1] NA

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Quantity	227																		227	
Recurring	0	711.3																		711.3
Other Flyaway	0																			
Other	0	42.0		4.9																46.9
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		753.3		4.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		758.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
LONGBOW(Adv Proc) (AA6670)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
SSNs AA6607/6608, PE273744 508 & D12

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	356.7	46.1	14.1									416.9
Net Proc (P-1)	356.7	46.1	14.1									416.9
Initial Spares												
Total Proc Cost	356.7	46.1	14.1									416.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Longbow program encompasses modification to 501 AH-64A Apaches as well as upgrades to the aircraft systems for the AH-64D series to efficiently and effectively integrate the Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kits, and the Longbow HELLFIRE missile. Longbow provides an adverse weather fire-and-forget missile capability that increases lethality and survivability. The Longbow Apache also retains the capability to fire the Semi-Active Laser Hellfire. The design enhancements increases operational capability of the crew and provides increased survivability and lethality.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:

First System Completion Date:

Date: February 2005

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

P-1 Line Item Nomenclature / Weapon System
LONGBOW

($ in Millions)

SSNs AA6607/6608, PE273744 508 & D12

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
End Item Quantity			344	74	64	19								501
Airframe	12	12	258.0	46.1	14.1									318.2
GFE-FCR Kit	12	12	98.7											98.7
Total Advance Procurement			356.7	46.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	416.9

Advance Procurement Requirements Analysis-Execution (P10D)

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

P-1 Line Item Nomenclature / Weapon System
LONGBOW

($ in Millions)

	PTL (mos)	2004 Qty	2004 Contract Forecast Date	2004 Actual Contract Date	2004 Total Cost Request	2004 Actual Contract Cost	2005 Qty	2005 Contract Forecast Date	2005 Actual Contract Date	2005 Total Cost Request	2005 Actual Contract Cost	2006 Qty	2006 Contract Forecast Date	2007 Qty	2007 Contract Forecast Date
End Item Quantity															
Airframe	12	19	Nov 03		14.1										
GFE-FCR Kit	12														
Total Advance Procurement					14.1	0.0				0.0	0.0				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 MODS (AA0480)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	596.2	47.4	18.8	90.4	33.3	30.4	13.1	11.1				840.7
Less PY Adv Proc				13.5								13.5
Plus CY Adv Proc		0.0	13.5									13.5
Net Proc (P-1)	596.2	47.4	32.3	76.9	33.3	30.4	13.1	11.1				840.7
Initial Spares												
Total Proc Cost	596.2	47.4	32.3	76.9	33.3	30.4	13.1	11.1				840.7
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
FY 2006 / FY 2007 funding continues the UH-60M RECAP/UPGRADE program, and modification of the UH-60A/L fleet with safety, cost reduction, and operational improvements.

This budget submission reflects the revised Army acquisition strategy to procure all new UH-60M models, in lieu of the previous recap/upgrade program. Corresponding funds have been transferred to the UH-60 BLACKHAWK (MYP) budget line.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 BLACK HAWK MODS (AA0492)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	596.2	47.4	18.8	90.4	33.3	30.4	13.1	11.1				840.7
Less PY Adv Proc				13.5								13.5
Plus CY Adv Proc			13.5									13.5
Net Proc (P-1)	596.2	47.4	32.3	76.9	33.3	30.4	13.1	11.1				840.7
Initial Spares												
Total Proc Cost	596.2	47.4	32.3	76.9	33.3	30.4	13.1	11.1				840.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The UH-60 BLACK HAWK will serve as the Army's utility helicopter in the future force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, air cavalry, troop & equipment transport, command & control, and medical evacuation (MEDEVAC) in active and reserve component theater, corps, division, and Table of Distribution and Allowances (TDA) units. The UH-60 is joint force capable, provides 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 BLACK HAWK fleet consists of the UH-60A, first fielded in FY78, and the newer UH-60L which was fielded in FY89 and is still in production today. The oldest UH-60As are now over 25 years old, and the average age of the UH-60A fleet is 21 years.

Justification:
FY 2006/2007 funding continues procurement and installation of the Crashworthy External Fuel System (CEFS) and procurement of Brigade Sets, mission kits and equipment. CEFS is a safety modification that reduces the risk of a post-crash fire. The Brigade Sets, mission kits and equipment provides equipment to aviation division and brigade structure to support Army Transformation and Modularity.

This budget submission reflects the revised Army acquisition strategy to procure all new UH-60M models, in lieu of the previous recap/upgrade program. Corresponding funds have been transferred to the UH-60 BLACKHAWK (MYP) budget line.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: UH-60 BLACK HAWK MODS (AA0492)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Crashworthy External Fuel System (CEFS)											
	Safety	53.6	15.8	19.7	19.6	0.0	0.0	0.0	0.0	0.0	108.7
HH-60L Medical Equip Package (MEP)											
	Operational	48.2	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.0
Adv Hel Transmission Lubricant (AHTL)											
	RAM	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Combat Search and Rescue (CSAR)											
	Operational	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Brigade Sets											
	Operational	0.0	18.7	13.6	10.8	13.1	11.1	0.0	0.0	0.0	67.3
Totals		104.1	76.9	33.3	30.4	13.1	11.1	0.0	0.0	0.0	268.9

INDIVIDUAL MODIFICATION Date: February 2005

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

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

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 MILESTONES:

Development is complete.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	222		5	15	15	20	20	20	30	26	26	26	26								
Outputs	60	10	43	43	43	35	20	20	20	30	30	26	25	25	21						

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		451
Outputs																		451

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
A-Kits (A/L)	257	15.4	90	4.6	69	4.7	35	2.4											451	27.1
A-Kits (GFE to Production)	14	0.7	8	0.4	14	1.0	58	4.0											94	6.1
A-Kits (GFE to SAR Acft)	10	0.6																	10	0.6
B-kits	202	26.1	45	6.0	72	10.4	57	8.7											376	51.2
Support Equipment/Other		9.1		4.4		2.9		3.6												20.0
Installation of A-Kits	**0**																			
FY2004 & Prior Equip -- 257 Kits	222	1.7	35	0.4															257	2.1
FY2005 Equip -- 90 Kits	0				90	0.7													90	0.7
FY2006 Equip -- 69 Kits	0						69	0.6											69	0.6
FY2007 Equip -- 35 Kits	0						35	0.3											35	0.3
FY2008 Equip --	0																			
FY2009 Equip --	0																			
FY2010 Equip --	0																			
FY2011 Equip --	0																			
TC Equip -	0																			
Total Installment	222	1.7	35	0.4	90	0.7	104	0.9		0.0		0.0		0.0		0.0		0.0	451	3.7
Total Procurement Cost		53.6		15.8		19.7		19.6		0.0		0.0		0.0		0.0		0.0		108.7

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: HH-60L Medical Equip Package (MEP) [MOD 2]

MODELS OF SYSTEM AFFECTED: UH-60L

DESCRIPTION/JUSTIFICATION:

Modifies UH-60L helicopters to the HH-60L MEDEVAC configuration. The Medical Equipment Package (MEP) consists of FLIR II, external high performance rescue hoist (HPH), personal locating system (PLS), environmental control system (ECS), improved digital avionics package and advanced medical interior. The MEP will be provided as GFE and installed on new production UH-60L aircraft as the aircraft goes through the production line, therefore installation costs are not shown separately on the following page nor is the installation schedule below completed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The HH-60L Medical Equipment Package (MEP) is approved for production. The Army continues to address obsolescence issues on some components; additional evaluation/testing is on-going/scheduled on these components.

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): HH-60L Medical Equip Package (MEP) [MOD 2]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
HH-60L MEPs (GFE to Production)	6	26.4	4	18.0															10	44.4
Installed Equipment	0	14.6		9.8																24.4
GFE/Total Package Fielding	0	6.2		2.0																8.2
Training Devices	1	1.0																	1	1.0
ECP - Component Obsolescence	0			6.0																6.0
Thermal Imaging Devices	0		4	2.0															4	2.0
--	0																			
--	0																			
--	0																			
--	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		48.2		37.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		86.0

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Brigade Sets [MOD 5]

MODELS OF SYSTEM AFFECTED: UH-60A/L

DESCRIPTION/JUSTIFICATION:

Provides funding to procure equipment, mission kits and modularity sets to support the new Aviation Division and Brigade Structure. Included are Ballistic Protection Systems (BPS) that provides increased protection from small arms significantly improving the safety of the pilot, co-pilot, and cargo area/transported troops. BPS is a fully qualified kit and is compatible with UH-60A MEDEVAC mission kit and troop seats. Also includes Brigade SKO/Mission Modularity Kits that may include adapter hoist kits, winterization kits, blackout kits and modularity kits comprised of a variety of sets, kits and outfits that provide improved capability to fielded maintenance units/brigades. Equipment being procured is being sent to aircraft units therefore the installation schedule below does not apply to this effort.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is complete.

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Ballistic Protection Systems (BPS)	0			4.9		9.3		8.0		10.0		8.0								40.2
Modularity Kits/Sets	0			13.8		4.3		2.8		3.1		3.1								27.1
Interim Contractor Support	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		18.7		13.6		10.8		13.1		11.1		0.0		0.0		0.0		67.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
UH-60 MODS(Adv Proc) (AA0480)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
0203744A/Project 504

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc			13.5									13.5
Net Proc (P-1)			13.5									13.5
Initial Spares												
Total Proc Cost			13.5									13.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The UH-60 BLACKHAWK 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-60A entered service in fiscal year 1978 (FY78), and the newer model UH-60L in FY89. The Army continues to procure UH-60L helicopters today. The oldest UH-60As are now over 25 years old, and the average age of the UH-60A fleet is 21 years.

This budget submission reflects the revised Army acquisition strategy to procure all new UH-60M models, in lieu of the previous recap/upgrade program. Corresponding funds have been transferred to the UH-60 BLACKHAWK (MYP) budget line.

Advance Procurement Requirements Analysis-Funding (P10A)

First System Award Date:	First System Completion Date:	Date:
2QFY05	4QFY06	February 2005

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

P-1 Line Item Nomenclature / Weapon System
UH-60 MODS

($ in Millions)

0203744A/Project 504

	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	To Comp	Total
UH-60M														
Airframe					9.6									9.6
Transmission					0.3									0.3
Avionics					3.6									3.6
Total Advance Procurement			0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
KIOWA WARRIOR (AZ2200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	3055.4	41.3	50.9	39.1	24.5	43.0	21.1	15.6	5.8	5.9	13.2	3315.8
Less PY Adv Proc	223.3											223.3
Plus CY Adv Proc	223.3											223.3
Net Proc (P-1)	3055.4	41.3	50.9	39.1	24.5	43.0	21.1	15.6	5.8	5.9	13.2	3315.8
Initial Spares	181.3											181.3
Total Proc Cost	3236.7	41.3	50.9	39.1	24.5	43.0	21.1	15.6	5.8	5.9	13.2	3497.1
Flyaway U/C												
Wpn Sys 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 improving operational and autorotational characteristics. It will also increase system reliability and lower support costs. Efforts include removing obsolete and extraneous hardware, repainting after removing excess layers of paint, replacing the current bomb rack, updating the multifunction displays (MFDs) with lightweight MFDs, and adding the GAU-19 .50-caliber, three-barrel Gatling Gun in lieu of the M2 .50-caliber machine gun.

FY 2006/ FY 2007 funding continues the SEP. FY 2007 includes the initiation of the Weight Reduction efforts.

Justification:
FY 2006/2007 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 2005

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

P-1 Item Nomenclature: KIOWA WARRIOR (AZ2200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Safety Enhancement Program (SEP)											
2-97-01-0115	Safety	262.4	33.6	22.4	24.4	5.0	2.7	0.0	0.0	0.0	350.5
Safety Enhancement Program - Weight Reduction											
2-02-01-0116	Safety	4.2	0.0	0.0	17.6	16.1	12.9	4.1	4.1	2.7	61.7
Helmet-Mounted Optical Display											
2-XX-08-0117	Operation Capability	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Sets / Kits / Outfits (Two-Level Maint)											
2-04-01-0118	Cost Reduction (O&S)	0.0	5.5	2.1	1.0	0.0	0.0	0.0	0.0	0.0	8.6
Program Support											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.8	10.5	14.0
Totals		268.6	39.1	24.5	43.0	21.1	15.6	5.8	5.9	13.2	436.8

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION/JUSTIFICATION:

The Safety Enhancement Program (SEP) addresses safety issues and enables Kiowa Warrior performance as a digitized platform capable of integrated combat engagement via the Tactical Internet. R3 Engines with Full Authority Digital Electronic Control increase reliability, control responsiveness, and overcome a rotor droop anomaly by providing faster response time to power demands. Engine barrier filters improve engine reliability by reducing damage from sand/dust ingestion and by increasing engine meantime between overhaul. The Improved Master Controller Processor Unit (IMCPU) increases memory and throughput and reduces both aircraft empty weight and Operating and Support (O&S) costs. The IMCPU accommodates upgraded software required for digital communications and provides the Variable Message Format (VMF). Energy attenuating seats provide crew safety in case of vertical and horizontal impacts. Cockpit airbags increase crew protection. Of the current fleet of 356 Kiowa Warriors, 304 (including nine Category B trainers) will receive SEP modifications; 227 are being accomplished on the contractor's modification line and 77 additional aircraft had been partially equipped in prior remanufacture/retrofit lines. Twenty of these SEP-modified aircraft have been lost to attrition. Equipment not installed at the contractor's facility will be applied via field retrofit. In order to complete the SEP, aircraft will be modified at the contractor's facility plus some will have seats, airbags, and engine barrier filters installed in the field. The full fleet of 356 aircraft will be equipped with engine barrier filters, seats, and airbags.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Aircraft Modified - Bell Helicopter	170		20		18		19												227	
Nonrecurring	0	29.3		2.3		2.4		2.4												36.4
Recurring - Bell Helicopter	0	94.1		14.6		13.4		14.3												136.4
Government-Furnished Equipment	0	97.4		8.3		0.9		0.9		0.6										108.1
Engineering Change Orders	0	2.1		1.0		0.8		0.8		0.2		0.2								5.1
Aircraft Preparation	0	13.3		1.6		1.6		1.6		0.6										18.7
Fielding	0	3.4		0.5		0.3		0.8		0.4		0.3								5.7
Training/Training Devices	0	6.8		2.3																9.1
Other	0	9.8		1.4		1.4		2.1		1.9		1.5								18.1
Technical Support	0	4.0		0.9		0.9		0.9		0.7		0.4								7.8
Installation of Hardware - Field	**0**																			
FY 2002 & Prior Equip -- Kits	0	0.5																		0.5
FY 2003 -- Kits	0	0.7																		0.7
FY 2004 Equip -- Kits	0	1.0																		1.0
FY 2005 Equip -- Kits	0			0.7																0.7
FY 2006 Equip -- Kits	0					0.7														0.7
FY 2007 Equip -- Kits	0							0.6												0.6
FY 2008 Equip -- Kits	0									0.6										0.6
FY 2009 Equip -- Kits	0											0.3								0.3
TC Equip- Kits	0																			
Total Installment	0	2.2		0.7		0.7		0.6		0.6		0.3		0.0		0.0		0.0		5.1
Total Procurement Cost		262.4		33.6		22.4		24.4		5.0		2.7		0.0		0.0		0.0		350.5

INDIVIDUAL MODIFICATION Date: February 2005

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 Program - Weight Reduction initiative addresses the safety of the Kiowa Warrior and its crews. 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, the XM322/GAU-19 .50-caliber Gatling Gun, and a video data transfer system. Additionally, extraneous hardware and paint layers will be removed. Of the current fleet of 356 aircraft, various lesser quantities are planned for weight reduction modifications due to the projected retirement schedule of the fleet. These aircraft will be upgraded to the critical Controls Display Symbology, Version 4 (CDS4) configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Note: Installation Schedule data not provided below. Aircraft will be equipped/modified via field retrofits. Each effort within this modification plan can be installed separately from the others. While attempts will be made to combine modifications where feasible, there will be separate schedules and quantities for each modification. Hardware installation dollars represent a compilation of the variety of field retrofit modifications.

Leadtimes and contract award and delivery dates are not provided below. Multiple/individual contracts will be written each applicable fiscal year to complete this Weight Reduction Program. Likewise, multiple delivery schedules will exist.

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	0																			
Nonrecurring	0							1.2												1.2
Recurring Labor	0							1.1		1.7		1.7		1.7						6.2
Hardware	0	4.0						13.5		11.8		9.3		1.5		3.5		2.2		45.8
Data/Pubs/Manuals	0							1.5												1.5
Support Equipment	0							0.0				0.1		0.1		0.1				0.3
Technical Support	0							0.2												0.2
Fielding	0	0.1						0.1		0.1		0.0								0.3
Training/Training Devices	0									0.9		0.3		0.3		0.3				1.8
Installation of Hardware (Retrofit)	**0**																			
FY 2002 & Prior Equip -- Kits	0																			
FY 2003 -- Kits	0																			
FY 2004 Equip -- Kits	0	0.1																		0.1
FY 2005 Equip -- Kits	0																			
FY 2006 Equip -- Kits	0																			
FY 2007 Equip -- Kits	0									1.6										1.6
FY 2008 Equip -- Kits	0											1.5								1.5
FY 2009 Equip -- Kits	0													0.5						0.5
TC Equip- Kits	0															0.2		0.5		0.7
Total Installment	0	0.1		0.0		0.0		0.0		1.6		1.5		0.5		0.2		0.5		4.4
Total Procurement Cost		4.2		0.0		0.0		17.6		16.1		12.9		4.1		4.1		2.7		61.7

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Sets / Kits / Outfits (Two-Level Maint) [MOD 4] 2-04-01-0118

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION/JUSTIFICATION:

Procures tools, test equipment, and Peculiar Ground Support Equipment (PGSE) to support Two-Level Maintenance. Tools and test equipment will equip the prescribed 30 Aviation Unit Maintenance (AVUM) organizations. PGSE is expected to equip 30 AVUMs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Note: Installation Schedule data not provided below. The majority of the items will be acquired via requisitioning the supply system.

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Sets / Kits / Outfits (Two-Level Maint) [MOD 4] 2-04-01-0118

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Quantity - Tools	0		30	4.1		2.1		1.0											30	7.2
Peculiar Ground Support Equip	0			1.4																1.4
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0																			
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		5.5		2.1		1.0		0.0		0.0		0.0		0.0		0.0		8.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AIRBORNE AVIONICS (AA0700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	490.6	90.9	72.5	48.9	106.1	119.6	152.1	155.4	218.6	262.9		1717.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	490.6	90.9	72.5	48.9	106.1	119.6	152.1	155.4	218.6	262.9		1717.6
Initial Spares	58.1	2.0	4.7	3.7	0.9							69.5
Total Proc Cost	548.7	92.9	77.2	52.6	107.1	119.6	152.1	155.4	218.6	262.9		1787.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Airborne Avionics budget line includes the Global Positioning System (GPS), the Joint Precision Approach and Landing System (JPALS), the Improved Data Modem (IDM), the Aviation Mission Planning System (AMPS), Centralized Automated Flight Record System (CAFRS), Tactical Terrain Visualization System (TTVS), and the Aviation Tactical Communications Systems (ATCS). 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 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 IDM is the key to digitizing Army Aviation. It is the centerpiece of Aviation's connectivity with the Tactical Internet (TI) and Fire Support (FS) Internet. This hardware/software solution allows Army Aviation interoperability with other weapon and ground systems. The IDM provides a common Aviation platform solution for processing Situational Awareness and Joint Variable Message Format messages. IDM will be installed on the AH-64D, OH-58D, CH-47F, Special Operations Aircraft (SOA), UH/HH-60M, and Tactical Airspace Integration Systems (TAIS).

AMPS is a mission planning/battle-synchronization tool that automates aviation mission planning tasks that include tactical command and control, mission planning, and flight planning. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which are loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft, including the AH-64A Apache Modernization, AH-64D Longbow Apache, Armed Reconnaisance Helicopter (ARH), CH-47D/F Chinook, OH-58D Kiowa Warrior, and UH-60A/L/M/Q,HH-60L/M Blackhawk, and Unmanned Aerial Vehicles (UAV). To support the required future capabilities of the Aviation fleet in the Future Force, AMPS will migrate to the Joint Mission Planning System (JMPS) in FY08.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2005
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /2/Modification of aircraft		P-1 Item Nomenclature: AIRBORNE AVIONICS (AA0700)
Program Elements for Code B Items:	Code:	Other Related Program Elements: PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

JMPS is a congressionally directed Multi-Service system. Migration to JMPS is being accomplished in two phases: support of near term Army Aviation fleet requirements and risk reduction by developing platform-specific modules for the Army variant of Portable Flight Planning Software (PFPS), and modification of those modules and development of additional capabilities under the JMPS architecture. The architecture inherent in JMPS will accommodate modifications required to support the Future Combat System and associated family of UAVs that are to be deployed within Aviation Brigades.

The Centralized Automated Flight Record System (CAFRS) includes the development of an automated risk assessment module to be incorporated on AMPS as well as a supporting automated flight records database system which will facilitate the automation of specific source data to be used as part of risk assessment. Along with supporting risk assessment, CAFRS will facilitate, simplify, and standardize the process of compiling, tracking, and analyzing flight records and Air Traffic Services (ATS) records.

The Tactical Terrain Visualization System (TTVS) will provide the aviation staff, and the individual warfighter the ability to render the commander's intent/actions on the objective within a high fidelity, photorealistic, and geo-specific environment without any redundancy of planning effort. All tactical graphics and overlay information incorporated within a planned mission on AMPS can be imported into TTVS and displayed in a 3-D environment for mission rehearsal and/or fly through.

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

The Aviation Tactical Communications Systems (ATCS) is the transformational system that will provide Army Aviation the required interoperability capability for Future Force and Joint Force Operations. The ATCS encompasses a suite of communications systems that evolve from existing legacy radios to the foundation systems for achieving network centric warfare operations across the radio frequency (RF) spectrum. ATCS will provide digital information exchange for situational awareness, both vertically and horizontally, among Joint Warfighting elements, while enabling connectivity to civil and national authorities in support of Homeland Defense. The ATCS will provide an internal capability through an open systems architecture approach in compliance with the Joint Technical Architecture, which improves system performance and provides growth capability for technology insertion at minimum cost. The ATCS program will provide an Alternate Communications (Alt Comms) capability for aircraft that will not receive the Joint Tactical Radio System (JTRS).

Justification:
FY06/07 procures DGNS B-Kits and A-Kits and installs for the UH-60A/L and CH-47D. Funding also procures EGI B-Kits, A-Kits and installs for SOA aircraft. P3I is required to meet directed security requirement (Selective Availability Anti-Spoofing Module (SAASM)), and to provide a box level IFR navigation capability. GPS P3I, GATM and JPALS programs are closely linked and have joint perspective/participation.

FY06/07 procures IDM B-Kits for AH-64D, OH-58D, CH/MH-47F, and UH/HH-60M fielding requirements. The IDM improves Army Aviation's interoperability, lethality, and operational tempo through the exchange of fast and accurate data-burst communications, via the TI and FS Internet; providing a seamless capability to communicate across the digital battlefield.

FY06/07 procures AMPS upgrades for system hardware as well as upgrading the system software to support aviation fleet modernization programs and migration, and required enhancements, to the Joint Mission Planning System (JMPS).

FY06/07 procures CAFRS software development and hardware to support both garrison and deployed operations as well as assist in resource, readiness and personnel management decision making.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2005
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /2/Modification of aircraft		P-1 Item Nomenclature: AIRBORNE AVIONICS (AA0700)
Program Elements for Code B Items:	Code:	Other Related Program Elements: PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

It includes New Equipment Training (NET) team support by System Support Representatives (SSRs) for fielding to aviation units in support of an initiative to reduce accidents through automated risk assessment.

FY06/07 procures over 650 TTVS hardware packages, required software modifications, and all fielding and training requirements.

FY06/07 procures ATCS A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M for alternative communications. The installed A-Kits and B-Kits will provide aviation platforms the capability to communicate over required waveforms and networks. The installed radios will provide the AH-64D, CH-47F, UH/HH-60M with the minimum critical interoperability capability to support the warfighter.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: AIRBORNE AVIONICS (AA0700)

Program Elements for Code B Items:

Code:

Other Related Program Elements: PE 0604201A, PE 0305114A, SSN AA0704, SSN AZ3520

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Improved Data Modem (IDM)											
	Oper/Log	247.6	23.2	50.8	50.3	58.9	47.9	43.6	67.7	0.0	590.0
Aviation Mission Planning System (AMPS)											
1-95-01-2185	Oper/Log	121.7	12.6	9.9	12.1	12.8	13.1	17.2	15.6	0.0	215.0
Centralized Automated Flight Records System (CAFRS											
	Oper/Log	0.0	0.0	6.0	3.7	2.0	0.0	0.0	0.0	0.0	11.7
Embedded GPS Inertial Navigation System (EGI) P3I											
	Legislative	18.2	2.6	1.3	2.0	1.7	1.8	20.2	10.6	0.0	58.4
DGNS (AN/ASN-128B) P3I											
	Oper/Log	27.5	10.5	9.1	12.9	19.2	23.7	10.9	10.7	0.0	124.5
Aviation Tactical Communication Systems											
	Operational	0.0	0.0	23.0	37.6	56.5	67.9	77.7	78.6	0.0	341.3
Joint Precision Approach and Landing Sys (JPALS)											
	Operational	0.0	0.0	0.0	0.0	0.0	0.0	48.0	78.7	0.0	126.7
Tactical Terrain Visualization System											
	Oper/Log	0.0	0.0	6.0	1.0	1.0	1.0	1.0	1.0	0.0	11.0
Totals		415.0	48.9	106.1	119.6	152.1	155.4	218.6	262.9	0.0	1478.6

INDIVIDUAL MODIFICATION Date: February 2005

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

MODELS OF SYSTEM AFFECTED: IDM MD-1359/A;Aircraft: Longbow,Kiowa Warrior,Special Operations Aircraft,Chinook, Blackhawk

DESCRIPTION/JUSTIFICATION:

The IDM is the key to digitizing Army Aviation. It is the centerpiece of Aviation's connectivity with the Tactical Internet (TI) and Fire Support (FS) Internet. This hardware/software solution allows Army Aviation interoperability with other weapon and ground systems. The IDM provides a common Aviation platform solution for processing Situational Awareness and Joint Variable Message Format messages. IDM will be installed on the AH-64D, OH-58D, CH-47F, Special Operations Aircraft (SOA), UH/HH-60M, and Tactical Airspace Integration Systems (TAIS). No installation schedule due to installs on production line by contractor.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: 15 Months

Contract Dates:	FY 2006	Jun 06	FY 2007	Jun 07	FY 2008	
Delivery Date:	FY 2006	Sep 07	FY 2007	Sep 08	FY 2008	

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity - B Kits	810	26.8	185	3.8	105	2.1	161	2.6	154	2.5	140	5.5	133	5.4	225	9.2			1913	57.9
Mods - B Kit	206	4.5																	206	4.5
Installation Kits-A-Kits	240	11.9																	240	11.9
Aircraft Integration		119.5		8.2		35.7		27.8		37.0		23.9		24.2		36.4				312.7
H/W S/W, Nonrecurring	0	58.5		9.5		8.5		15.8		14.6		13.8		9.5		16.7				146.9
Engineering Change Orders	0	3.9				0.1		0.2		0.2		0.5		0.4		0.6				5.9
Data	0	1.4		0.2		0.2		0.2		0.2		0.2		0.2		0.2				2.8
System Test and Evaluation	0	2.0		0.6		0.6		0.6		0.6		0.6		0.6		0.6				6.2
Support Equipment	0	0.7																		0.7
Other - PM Adm	0	15.0		0.2		2.5		2.5		2.9		2.4		2.2		3.4				31.1
Training Equipment	0																			
Fielding (NET/OLR)	0	3.4		0.7		1.1		0.6		0.9		1.0		1.1		0.6				9.4
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		247.6		23.2		50.8		50.3		58.9		47.9		43.6		67.7		0.0		590.0

INDIVIDUAL MODIFICATION Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

The AMPS is a mission planning/battle-synchronization tool that automates aviation mission planning tasks. The AMPS includes tactical command and control, mission planning and management. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which is loaded on the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft. Since the airframes have the data receptacles/buses required to interface with AMPS, there is no installation cost/schedule. AMPS is fielded to Aviation Brigade and Battalion Headquarters and Line Company Command Posts. Equipment purchases are on a five year cycle. In the first two years, the computers are replaced. In the third year, computer components are upgraded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Operational Requirements Document Change 1 approved Apr 1998.
AMPS migrates to JMPS in FY08.

Installation Schedule:

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

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

METHOD OF IMPLEMENTATION: N/A ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 4 Months

Contract Dates:	FY 2006	Feb 06	FY 2007	Feb 07	FY 2008
Delivery Date:	FY 2006	Jun 06	FY 2007	Jun 07	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity - B Kit	0																			
B Kit (Computer)	1828	30.5							677	4.8	678	4.8							3183	40.1
B Kit (Upgrades)	0				1124	2.2									1355	2.7			2479	4.9
B Kit (Peripherals)	0	11.7																		11.7
Hardware, Nonrecurring	0	8.7		0.3				0.3						0.5						9.8
Engineering Change Orders	0	56.0		9.5		4.9		8.9		4.9		5.0		13.2		9.4				111.8
System Test & Eval	0	0.6		0.2		0.2		0.2		0.2		0.2		0.2		0.2				2.0
Training Equipment	0	0.3																		0.3
Other - PM Admin	0	6.4		0.6		0.4		0.5		0.5		0.6		0.8		0.6				10.4
Fielding (SSRs)	0	7.5		2.0		2.2		2.2		2.4		2.5		2.5		2.7				24.0
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		121.7		12.6		9.9		12.1		12.8		13.1		17.2		15.6		0.0		215.0

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Centralized Automated Flight Records System (CAFRS [MOD 3]

MODELS OF SYSTEM AFFECTED: Aviation Commanders, Army Safety Center, Automated Risk Management

DESCRIPTION/JUSTIFICATION:

This program includes the development of an automated risk assessment module to be incorporated into AMPS as well as a supporting automated flight records database system to facilitate the automation of specific source data to be used as part of risk assessment. The execution strategy is to modify existing rather than develop new software wherever possible. The Army Safety Management Information System (ASMIS) website run by the U.S. Army Safety Center (ASC) provides the functionality to calculate a Risk Assessment for particular missions. Along with supporting risk assessment, CAFRS will facilitate, simplify and standardize the process of compiling, tracking, and analyzing flight records and ATS records. CAFRS seeks to sustain and improve the management of Aviation Flight and ATS Records IAW current regulations and policies through a centralized, fully automated, globally accessible and secure system. It will also provide the Army's senior level leadership visibility over aviation peculiar flight operations information to assist in resource, readiness and personnel management decision-making. CAFRS is a ground-based, pre-mission decision aid. Therefore, there is no aircraft platform installation cost/schedule.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Centralized Automated Flight Records System (CAFRS [MOD 3]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
HW Database Servers						0.1		0.1												0.2
H/W, Nonrecurring																				
Engineering Change Orders						3.2		2.9		1.8										7.9
Fielding (SSRs)						2.5		0.5		0.1										3.1
Other - PM Admin						0.2		0.2		0.1										0.5
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		6.0		3.7		2.0		0.0		0.0		0.0		0.0		11.7

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Embedded GPS Inertial Navigation System (EGI) P3I [MOD 4]

MODELS OF SYSTEM AFFECTED: Longbow (AH-64D), SOA

DESCRIPTION/JUSTIFICATION:

Embedded GPS/INS (Global Positioning System/Inertial Navigation Systems)(EGI) is one of the aviation systems required for Digitization of the Battlefield. FY05 starts the fielding of the GPS EGI Pre-Planned Product Improvement (P3I). This modification will provide enhanced security with the directed Selective Availability Anti-Spoofing Module (SAASM), and GPS Instrument Flight Rule (IFR) navigation capability, in accordance with civil airspace regulatory requirements for the AH-64D, and Special Operations Aircraft (SOA). The kit cost will vary depending on aircraft configuration. Only B kits will be bought and provided for MH6 (SOA) aircraft. Beginning in FY10, another GPS upgrade, referred to as M-Code, will be procured with fielding starting in FY11. M-Code is a new military GPS signal that will provide enhanced navigational accuracy and superior anti-jamming capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOTE ON KIT AND INSTALLATION QUANTITIES:

B Kit quantity is greater than A kit and installation quantity for the MH6 Special Operation Aircraft (SOA). In both the GPS P3I and GPS M code programs, B kits are provided to SOA for the MH6, and for spares. Funding of A kits and field installations for SOA is included in the United States Special Operations Command (USSOCOM) budget.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	18				18				18				24				18	6		
Outputs		12	6			12	6			12	6			16	8			4	8	6	6

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	12	7			63	63	62	63	25	25	25	26	42	42	42	43		642
Outputs	12	7			12	51	63	62	63	35	25	25	26	50	42	42	25	642

METHOD OF IMPLEMENTATION: OLR Teams ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2006	Apr 06	FY 2007	Apr 07	FY 2008
Delivery Date:	FY 2006	Oct 06	FY 2007	Oct 07	FY 2008

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Embedded GPS Inertial Navigation System (EGI) P3I [MOD 4]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity - B Kit	41	1.3	44	1.4	29	0.9	36	1.2	24	0.8	19	0.7	263	16.0	111	6.7			567	29.0
Installation Kits - A Kit	18	0.1	18	0.1	18	0.1	24	0.2	24	0.2	19	0.1	251	1.0	101	0.3			473	2.1
Installation Kits, Nonrecurring	0	4.3		0.4																4.7
Equipment																				
Equipment, Nonrecurring	0	11.6																		11.6
Engineering Change Orders	0			0.1								0.6		0.1		0.1				0.9
Data	0			0.1										0.6		0.2				0.9
Training Equipment	0													0.2		0.1				0.3
Systems Engineering	0			0.3		0.1		0.4		0.4		0.1		1.0		0.5				2.8
Other - PM Admin and Matrix Spt	0	0.9		0.1		0.1		0.1		0.1		0.1		1.1		0.6				3.1
Installation of Hardware	**0**																			
FY2004 & Prior Equip -- Kits	0		18	0.1															18	0.1
FY2005 Equip -- Kits	0				18	0.1													18	0.1
FY2006 Equip -- Kits	0						18	0.1											18	0.1
FY2007 Equip -- Kits	0								24	0.2									24	0.2
FY2008 Equip -- Kits	0										24	0.2							24	0.2
FY2009 Equip -- Kits	0												19	0.2					19	0.2
FY2010 Equip -- Kits	0														251	2.1			251	2.1
FY2011 Equip -- Kits	0																270		270	
TC Equip- Kits	0																			
Total Installment	0	0.0	18	0.1	18	0.1	18	0.1	24	0.2	24	0.2	19	0.2	251	2.1	270	0.0	642	3.0
Total Procurement Cost		18.2		2.6		1.3		2.0		1.7		1.8		20.2		10.6		0.0		58.4

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: DGNS (AN/ASN-128B) P3I [MOD 5]

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Doppler GPS Navigation System (DGNS) is one of the aviation systems required for Digitization of the Battlefield. FY 05 starts the fielding of the Pre-Planned Product Improvement (P3I) for the ASN-128B/DGNS for the UH-60A/L and CH-47D aircraft. This modification will provide enhanced security with the directed Selective Availability Anti-Spoofing Module (SAASM) and GPS Instrument Flight Rule (IFR) navigation capability. The AN/ASN-128B/DGNS P3I will meet the requirements of civil airspace regulatory requirements for the UH-60A/L and CH-47D aircraft. Unit cost vary by platform for A-Kits. The difference in quantity between the A Kits and the B Kits is due to two kits were returned to the contractor as Government Furnished Equipment (GFE) for testing purposes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Low Rate Initial Production (LRIP) contract awarded Jul 04 for B-Kits.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	0	15	15	15	16	28	28	28	27	20	20	20	21	32	32	32	32	48	48	49	49
Outputs	0		15	15	15	16	28	28	28	27	20	20	20	21	32	32	32	32	48	48	49

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	59	59	59	60	22	22	22	21	23	22	22	22						988
Outputs	49	59	59	59	60	22	22	22	21	23	22	22	22					988

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months

Contract Dates:	FY 2006	Apr 06	FY 2007	Apr 07	FY 2008	Apr 08
Delivery Date:	FY 2006	Oct 06	FY 2007	Oct 07	FY 2008	Oct 08

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): DGNS (AN/ASN-128B) P3I [MOD 5]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity - B-Kit	63	4.1	111	6.4	81	4.8	128	7.6	194	11.8	237	14.8	87	5.4	89	5.6			990	60.5
Installation Kits - A-Kit	61	1.0	111	1.8	81	1.4	128	2.2	194	3.4	237	4.1	87	1.7	89	1.7			988	17.3
Installation Kits, Nonrecurring	0	3.9		0.4																4.3
Equipment	0																			
Equipment, Nonrecurring	0	13.3		0.2																13.5
Engineering Change Orders	0																			
Data	0			0.3		0.4		0.5		0.6		0.7		0.8		0.3				3.6
Training Equipment	0			0.1		0.1		0.1		0.2		0.3		0.1		0.1				1.0
Systems Engineering	0	4.1		0.4		1.2		1.3		1.2		1.3		1.0		0.9				11.4
Other-PM Admin & Matrix Spt	0	1.1		0.5		0.5		0.7		1.1		1.2		0.1		0.4				5.6
Fielding (NET)	0																			
Installation of Hardware	**0**																			
FY2004 & Prior - Kits	0		61	0.4															61	0.4
FY2005 Equip -- Kits	0				111	0.7													111	0.7
FY2006 Equip -- Kits	0						81	0.5											81	0.5
FY2007 Equip -- Kits	0								128	0.9									128	0.9
FY2008 Equip -- Kits	0										194	1.3							194	1.3
FY2009 Equip -- Kits	0												237	1.8					237	1.8
FY2010 Equip -- Kits	0														87	1.7			87	1.7
FY2011 Equip -- Kits	0																89		89	
TC Equip- Kits	0																			
Total Installment	0	0.0	61	0.4	111	0.7	81	0.5	128	0.9	194	1.3	237	1.8	87	1.7	89	0.0	988	7.3
Total Procurement Cost		27.5		10.5		9.1		12.9		19.2		23.7		10.9		10.7		0.0		124.5

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Aviation Tactical Communication Systems [MOD 6]

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Aviation Tactical Communications Systems (ATCS) is the transformational system that will provide Army Aviation the required interoperability capability for Future Force and Joint Force Operations. The ATCS encompasses a suite of communications systems that evolve from existing legacy radios to the foundation systems for achieving network centric warfare operations across the radio frequency (RF) spectrum. ATCS will provide digital information exchange for situational awareness, both vertically and horizontally, among Joint Warfighting elements, while enabling connectivity to civil and national authorities in support of Homeland Defense. The ATCS will provide an internal capability through an open systems architecture approach in compliance with the Joint Technical Architecture, which improves system performance and provides growth capability for technology insertion at minimum cost. The ATCS program will provide an Alternate Communications (Alt Comms) capability for aircraft that will not receive the Joint Tactical Radio System (JTRS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

MODIFICATION TITLE (Cont): Aviation Tactical Communication Systems [MOD 6]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
JTRS/ALT COMMS	**0**																			
Procurement	**0**																			
JTRS Kit Quantity - A-Kits	0												127	13.5	151	10.5			278	24.0
Common Antenna Hardware	0											12.1		14.2		13.4				39.7
Platform Non-Recurring	0											2.1		14.1		19.2				35.4
Data	0											1.1		1.2		2.3				4.6
System Test and Evaluation	0															3.6				3.6
ALT Comms Kit Qty - B-Kits	0				50	10.2	69	15.4	118	29.6	88	24.2	51	15.0	12	3.7			388	98.1
ALT Comms Kit Qty - A-Kits	0				102	6.0	151	10.9	152	12.4	144	12.7							549	42.0
Systems Engineering	0					1.5		2.1		2.1		2.2		3.4		2.6				13.9
Aircraft Integration	0					1.7		2.8		5.0		5.7		7.6		13.9				36.7
Training	0					0.5		0.6		0.7		0.7		0.8		1.5				4.8
Fielding	0					1.9		3.9		3.9		3.7		4.0		4.0				21.4
Other - PM Admin	0					1.2		1.9		2.8		3.4		3.9		3.9				17.1
Installation of Hardware	**0**																			
FY2002 & Prior Equip -- Kits	0																			
FY2003 Equip -- Kits	0																			
FY2004 Equip -- Kits	0																			
FY2005 Equip -- Kits	0																			
FY2006 Equip -- Kits	0																			
FY2007 Equip -- Kits	0																			
FY2008 Equip -- Kits	0																			
FY2009 Equip -- Kits	0																			
TC Equip- Kits	0																			
Total Installment	0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		23.0		37.6		56.5		67.9		77.7		78.6		0.0		341.3

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE: Tactical Terrain Visualization System [MOD 8]

MODELS OF SYSTEM AFFECTED: AH-64A Mod., AH-64D, UH-60A/L/Q and HH-60L, CH-47D/F, OH-58D Kiowa Warrior, ARH, Flt Ops, ATC

DESCRIPTION/JUSTIFICATION:

TTVS is a high fidelity solution mission rehearsal and planning tool that allows the user to view the commander's intent/actions in a high fidelity, photo realistic environment with no redundancy in planning effort. TTVS is fully compatible with the AMPS core software PFPS/Falconview. All tactical graphics and overlay information incorporated within a planned mission on AMPS can be imported into TTVS and displayed in a 3-D environment for mission rehearsal and/or fly through. To support near-term operations, the software must be hosted on separate high-end laptop computers. Beginning in FY08, the TTVS software will be integrated onto higher capability AMPS computers.

TTVS is a ground-based, pre-mission decision aid. Therefore, there is no aircraft platform installation cost/schedule.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2005

MODIFICATION TITLE (Cont): Tactical Terrain Visualization System [MOD 8]

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
B Kits (Computer)					650	5.0													650	5.0
Installation Kits, Nonrecurring																				
H/W																				
H/W, Nonrecurring																				
Engineering Change Orders						0.2		0.9		0.9		0.9		0.9		0.9				4.7
Data																				
Training Equipment																				
Support Equipment																				
Other - PM Admin						0.2		0.1		0.1		0.1		0.1		0.1				0.7
Fielding (SSRs)						0.6														0.6
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		6.0		1.0		1.0		1.0		1.0		1.0		0.0		11.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
GATM Rollup (AA0711)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	40.9	66.0	19.2	61.0	31.5	31.3	52.5	78.9	104.7	102.4	76.8	665.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	40.9	66.0	19.2	61.0	31.5	31.3	52.5	78.9	104.7	102.4	76.8	665.3
Initial Spares												
Total Proc Cost	40.9	66.0	19.2	61.0	31.5	31.3	52.5	78.9	104.7	102.4	76.8	665.3
Flyaway U/C												
Wpn Sys 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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Fixed Wing Aircraft (AA0703)					41565			8769			7996		
Rotary Wing Aircraft (AA0704)		19245			19458			22773			23290		
Total		**19245**			**61023**			**31542**			**31286**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	20.7	40.4		41.6	8.8	8.0	9.4	8.5	13.4	13.4		164.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.7	40.4		41.6	8.8	8.0	9.4	8.5	13.4	13.4		164.1
Initial Spares												
Total Proc Cost	20.7	40.4		41.6	8.8	8.0	9.4	8.5	13.4	13.4		164.1
Flyaway U/C												
Wpn Sys 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 2006/2007 procures GATM equipment for Fixed Wing aircraft. Fixed Wing aircraft were purchased with current avionics and navigation equipment 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 2005

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

P-1 Item Nomenclature
GATM - Fixed Wing Aircraft (AA0703)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years								
OSIP NO.	Classification	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Global Air Traffic Management - FW											
GATM-FW	Operational	61.1	41.6	8.8	8.0	9.4	8.5	13.4	13.4	0.0	164.2
Blue Force Tracking (BFT)											
Unknown	Unknown	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Totals		65.2	41.6	8.8	8.0	9.4	8.5	13.4	13.4	0.0	168.3

INDIVIDUAL MODIFICATION Date: February 2005

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; C-20F,E and UC-35

DESCRIPTION/JUSTIFICATION:

This effort will update and modernize communication, navigation, and surveillance equipment to current international requirements, allow worldwide deployments and continued safe operations into the 21st Century.

As currently equipped, the aircraft are not suitable for worldwide deployment nor capable of using modern navigation and air traffic control capabilities. There is a variety of equipment that will be 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 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 configuration vary based on the aircraft that they will be installed on. Consequently, kit unit and installation cost will vary significantly from year to year.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is not required for avionics system cockpit upgrades.

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	75			22	22			6	7			15	15			2	3			3	3
Outputs	75				22	22			6	7			15	15			2	3			3

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs			10	10			22	23										238
Outputs	3			10	10			22	23									238

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

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

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity	0																			
Installation Kits	75	42.2	44	22.0	13	6.5	30	5.6	5	5.9	6	5.7	20	9.5	45	9.6			238	107.0
Installation Kits, Nonrecurring	0																			
Equipment	0																			
Equipment, Nonrecurring	0																			
Engineering Change Orders	0																			
Data	0	0.2		0.1		0.1		0.1		0.1		0.1		0.1		0.1				0.9
Training Equipment	0																			
Support Equipment	0																			
Other	0																			
Interim Contractor Support	0																			
Installation of Hardware	**0**																			
FY2004 & Prior Equip -- Kits	75	18.7																	75	18.7
FY2005 Equip -- Kits	0		44	19.5															44	19.5
FY2006 Equip -- Kits	0				13	2.2													13	2.2
FY2007 Equip -- Kits	0						30	2.3											30	2.3
FY2008 Equip -- Kits	0								5	3.4									5	3.4
FY2009 Equip -- Kits	0										6	2.7							6	2.7
FY2010 Equip -- Kits	0												20	3.8					20	3.8
FY2011 Equip -- Kits	0														45	3.7			45	3.7
TC Equip- Kits	0																			
Total Installment	75	18.7	44	19.5	13	2.2	30	2.3	5	3.4	6	2.7	20	3.8	45	3.7		0.0	238	56.3
Total Procurement Cost		61.1		41.6		8.8		8.0		9.4		8.5		13.4		13.4		0.0		164.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
GATM - Rotary Wing Aircraft (AA0704)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
SSN AA0701, SSN AA0711

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	20.2	25.6	19.2	19.5	22.8	23.3	43.1	70.4	91.3	89.0	76.8	501.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.2	25.6	19.2	19.5	22.8	23.3	43.1	70.4	91.3	89.0	76.8	501.2
Initial Spares												
Total Proc Cost	20.2	25.6	19.2	19.5	22.8	23.3	43.1	70.4	91.3	89.0	76.8	501.2
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
FY06/07 procures B-Kits, A-Kits, and Installs for the AH-64A/D, CH-47D, UH-60A/L, and Special Operations Aircraft (SOA) which will allow Rotary Wing aircraft to meet near-term GATM requirements and initial Identification Friend or Foe (IFF) Mode 5 Upgrades. Europe mandates a Mode-S transponder for Instrument Flight Rules (IFR) flight after Mar 05 and for all flights after Mar 08. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates. The Mode-S transponder impacts over 300 European based aircraft as well as those deploying to Europe. The recurring procurement of Mode-S kits started in FY02 and procurement and installations continue. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements. GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion. IFF Mode 5 provides enhanced security and greatly improved performance over Mode 4. It maintains compatibility with civil ATC with less interference.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature: 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	2004 & PR	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Global Air Traffic Management - RW											
GATM-RW	Unclassified	65.1	19.5	22.8	23.3	43.1	70.4	91.3	89.0	76.8	501.3
Totals		65.1	19.5	22.8	23.3	43.1	70.4	91.3	89.0	76.8	501.3

INDIVIDUAL MODIFICATION Date: February 2005

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

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

DESCRIPTION/JUSTIFICATION:

High priority requirements funding will address enhanced communications and surveillance equipment necessary for airspace access for rotary wing aircraft operations (peacetime and wartime missions) worldwide. Initial funding will procure and install Mode-S transponders for all rotary wing aircraft, except the OH-58D and Mode 5 upgrades for all except TH-67.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

B kit quantities exceed A kit and installation quantities because 258 AH-64Ds and 176 SOA aircraft are addressed on the production line. The production line quantities do not require A-Kits or installs. In addition, 22 SOA deployment kits require no installation. The remaining B-Kits are for trainers and simulators. TH-67 and SOA installations do not require A-Kits.
A and B-Kits were procured in FY02 to address a March 03 Mode-S Mandate in Europe. That mandate has since slipped to March 05. Fielding has progressed slower than anticipated due to lack of aircraft availablity as a result of deployments.
Began fielding the APX-118 Mode-S Transponders for the UH-60 and CH-47 fleet (May 04).

Installation Schedule:

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	509	20	51	51	51	60	60	60	61	59	59	59	58	66	66	66	67	111	111	112	112
Outputs	85	20	100	108	126	138	123	92	81	70	82	75	77	91	83	74	79	76	95	84	87

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	150	150	150	150	170	170	170	170	80	80	80	80	80	80	80	82		3791
Outputs	86	86	86	100	96	96	96	96	100	122	122	171	173	173	173	169		3791

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

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

INDIVIDUAL MODIFICATION Date: February 2005

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

FINANCIAL PLAN: ($ in Millions)

	FY 2004 and Prior		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		TC		TOTAL	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E	**0**																			
Procurement	**0**																			
Kit Quantity (B Kits)	874	27.5	212	8.6	257	12.9	282	16.5	473	31.5	650	50.0	745	63.0	452	47.2	243	25.4	4188	282.6
Installation Kits (A Kits)	660	2.9	123	0.5	194	1.2	245	1.8	445	3.8	617	6.4	685	8.8	425	7.5	307	5.4	3701	38.3
Installation Kits, Nonrecurring	0	12.9		4.9																17.8
Equipment, Nonrecurring	0															13.5		25.8		39.3
Systems Engineering	0	1.9		2.3		3.2		1.0		0.9		1.2		1.0		0.9		1.0		13.4
Engineering Change Orders	0			0.2		0.1		0.3		0.4		0.5		0.8		0.7		0.8		3.8
Data	0					0.5				0.5		1.2		2.0						4.2
Training Equipment	0	0.4		0.7		0.6				0.4		0.5		0.8						3.4
Training	0	1.7		0.5		1.6		0.1		0.4		0.5		0.6		0.6		0.9		6.9
Other - PM Admin	0	3.5		0.7		1.1		1.2		2.2		3.4		4.5		4.4		3.8		24.8
Interim Contractor Support	0	0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.9
Other	0	11.3																		11.3
Installation of Hardware	**0**																			
FY2004& Prior Equip -- Kits	509	2.9	151	0.9															660	3.8
FY2005 Equip -- Kits	0		22	0.1	101	0.3													123	0.4
FY2006 Equip -- Kits	0				140	1.2	54	0.5											194	1.7
FY2007 Equip -- Kits	0						181	1.8	64	0.7									245	2.5
FY2008 Equip -- Kits	0								201	2.2	244	3.4							445	5.6
FY2009 Equip -- Kits	0										202	3.2	415	6.5					617	9.7
FY2010 Equip -- Kits	0												185	3.2	500	10.3			685	13.5
FY2011 Equip -- Kits	0														180	3.8	245	5.2	425	9.0
TC Equip- Kits	0																397	8.4	397	8.4
Total Installment	509	2.9	173	1.0	241	1.5	235	2.3	265	2.9	446	6.6	600	9.7	680	14.1	642	13.6	3791	54.6
Total Procurement Cost		65.1		19.5		22.8		23.3		43.1		70.4		91.3		89.0		76.8		501.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Aircraft Procurement, Army /3/Spares and repair parts

P-1 Item Nomenclature
SPARE PARTS (AIR) (AA0950)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	2130.2	3.9	11.2	10.8	3.9	4.0	4.0	4.0	4.0	4.0		2180.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2130.2	3.9	11.2	10.8	3.9	4.0	4.0	4.0	4.0	4.0		2180.1
Initial Spares												
Total Proc Cost	2130.2	3.9	11.2	10.8	3.9	4.0	4.0	4.0	4.0	4.0		2180.1
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
FY 2006 / FY 2007 Budget Request funds depot level reparables (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	488.1	3.1	13.8	12.3	11.2	29.1	45.0	32.8	62.7	64.0	607.7	1369.8
Less PY Adv Proc	11.6											11.6
Plus CY Adv Proc	11.6											11.6
Net Proc (P-1)	488.1	3.1	13.8	12.3	11.2	29.1	45.0	32.8	62.7	64.0	607.7	1369.8
Initial Spares	53.9											53.9
Total Proc Cost	542.0	3.1	13.8	12.3	11.2	29.1	45.0	32.8	62.7	64.0	607.7	1423.6
Flyaway U/C												
Wpn Sys Proc U/C												

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

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
ASE Warning Receivers (ASET IV)													
ASET IV, Upgrades, Fielding, NRE		3521			2231			1957			2299		
Program Management		306			194			170			181		
SUBTOTAL ASET IV		**3827**			**2425**			**2127**			**2480**		
ASE Radar CM (AN/AVR-2A/B)													
AN/AVR-2A System Acquisition		2500	20	125									
AN/AVR-2B System Acquisition					5857	72	81	5022	62	81	5022	62	81
Engineering Change Proposals, NRE		6718			3203								
Program Managgement		756			787			400			350		
SUBTOTAL AN/AVR-2B		**9974**			**9847**			**5422**			**5372**		
A/C Surv Equip Dev (SIRFC)													
Integration											4664		
NRE								3286			14990		
Program Management								365			1607		
SUBTOTAL SIRFC								**3651**			**21261**		
Total		**13801**			**12272**			**11200**			**29113**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
ASE WARNING RECEIVERS (AZ3506)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	344.4		3.8	2.4	2.1	2.5	2.7	3.0	3.1	3.2	30.6	397.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	344.4		3.8	2.4	2.1	2.5	2.7	3.0	3.1	3.2	30.6	397.8
Initial Spares												
Total Proc Cost	344.4		3.8	2.4	2.1	2.5	2.7	3.0	3.1	3.2	30.6	397.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The Aircraft Survivability Equipment Trainer IV (ASET IV) suite is mounted on six HMMWVs and is an aviation threat emitter simulation and training system, which 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. Eight suites have been produced and are being upgraded to simulate the most current SAM and AAA threats, as well as to locate, identify, and track aircraft at night through the use of night vision cameras. The aircraft training against the ASET IV include the Apache, Chinook, Kiowa Warrior, Blackhawk, and Fixed Wing platforms.

Justification:
FY 2006/2007 fields two Radio Frequency (RF) SAM & two Infrared (IR) SAM trainers to Fort Bragg and starts the integration of the UV upgrade and refurbishment program.

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 WARNING RECEIVERS (AZ3506)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
ASE WARNING RECEIVERS													
AN/TPQ-45 ASE Trainer IV (ASET IV)													
ASET IV NRE, Upgrades, and Fielding		3521			2231			1957			2299		
Project Management Support		306			194			170			181		
Total		**3827**			**2425**			**2127**			**2480**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

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

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	143.7	3.1	10.0	9.8	5.4	5.4	5.8	5.7	10.7	11.8	577.1	788.5
Less PY Adv Proc	11.6											11.6
Plus CY Adv Proc	11.6											11.6
Net Proc (P-1)	143.7	3.1	10.0	9.8	5.4	5.4	5.8	5.7	10.7	11.8	577.1	788.5
Initial Spares	53.9											53.9
Total Proc Cost	197.6	3.1	10.0	9.8	5.4	5.4	5.8	5.7	10.7	11.8	577.1	842.3
Flyaway U/C												
Wpn Sys 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 2006/2007 procures AN/AVR-2B systems for SOA MH-47, MH-60, UH-60, and AH-64 aircraft in support of the Required Operational Capability (ROC) and the aircraft missions. These systems must be procured to increase the survivability of US Army aircrews by detecting and alerting them of impending threats from laser aided weapon systems.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities			P-1 Line Item Nomenclature: ASE RADAR CM (AZ3508)			Weapon System Type:			Date: February 2005		
ACFT Cost Elements	ID CD	**FY 04**			**FY 05**			**FY 06**			**FY 07**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
AN/AVR-2B Laser Warning													
AN/AVR-2A System Acquisition		2500	20	125									
AN/AVR-2B System Acquisition					5857	72	81	5022	62	81	5022	62	81
Engineering Change Proposals													
Non-Recurring Engineering		6718			3203								
Program Management		756			787			400			350		
Total		**9974**			**9847**			**5422**			**5372**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
ASE RADAR CM (AZ3508)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/AVR-2A System Acquisition										
FY 2004	Goodrich Danbury, CT	C/FFP	CECOM, Ft. Monmouth, NJ	Jul 04	Jul 05	20	125	Yes		
AN/AVR-2B System Acquisition										
FY 2005	TBD	C/FFP	CECOM, Ft. Monmouth, NJ	Mar 05	Dec 05	72	81	No		
FY 2006	TBD	C/FFP	CECOM, Ft. Monmouth, NJ	Oct 05	Jul 06	62	81	No		
FY 2007	TBD	C/FFP	CECOM, Ft. Monmouth, NJ	Oct 06	Jul 07	62	81	No		

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE RADAR CM (AZ3508)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/AVR-2A System Acquisition																													
	1	FY 04	A	20	0	20										A											10	10		0
AN/AVR-2B System Acquisition																													
	2	FY 05	A	72	0	72																		A						72
	2	FY 06	A	62	0	62																								62
	2	FY 07	A	62	0	62																								62
Total				216		216																					10	10		196

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Goodrich , Danbury, CT	60.00	240.00	360.00	0
2	TBD ,	60.00	240.00	360.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	1	12	13
	REORDER	0	1	12	13
2	INITIAL	0	7	9	16
	REORDER	0	1	9	10
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Production rates are yearly rates.

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE RADAR CM (AZ3508)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 06 / CY 06 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 07 / CY 06 OCT	NOV	DEC	FY 07 / CY 07 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
AN/AVR-2A System Acquisition																														
	1	FY 04	A	20	20	0																								0
AN/AVR-2B System Acquisition																														
	2	FY 05	A	72	0	72			6	6	6	6	6	6	6	6	6	6	6	6										0
	2	FY 06	A	62	0	62	A									2	2	2	2	2	8	7	7	7	7	7	7	2			0
	2	FY 07	A	62	0	62													A									5	5	5	47
Total				216	20	196			6	6	6	6	6	6	6	8	8	8	8	8	8	7	7	7	7	7	7	7	5	5	47

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	60.00	240.00	360.00	0
2	TBD ,	60.00	240.00	360.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	1	12	13
	REORDER	0	1	12	13
2	INITIAL	0	7	9	16
	REORDER	0	1	9	10
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Production Rates are yearly rates.

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE RADAR CM (AZ3508)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 08 OCT	FY 08 NOV	FY 08 DEC	CY 08 JAN	CY 08 FEB	CY 08 MAR	CY 08 APR	CY 08 MAY	CY 08 JUN	CY 08 JUL	CY 08 AUG	CY 08 SEP	FY 09 OCT	FY 09 NOV	FY 09 DEC	CY 09 JAN	CY 09 FEB	CY 09 MAR	CY 09 APR	CY 09 MAY	CY 09 JUN	CY 09 JUL	CY 09 AUG	CY 09 SEP	LATER
AN/AVR-2A System Acquisition																														
	1	FY 04	A	20	20	0																								0
AN/AVR-2B System Acquisition																														
	2	FY 05	A	72	72	0																								0
	2	FY 06	A	62	62	0																								0
	2	FY 07	A	62	15	47	5	5	5	5	5	5	5	5	5	2														0
Total				216	169	47	5	5	5	5	5	5	5	5	5	2														

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Goodrich , Danbury, CT	60.00	240.00	360.00	0
2	TBD ,	60.00	240.00	360.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	1	12	13
	REORDER	0	1	12	13
2	INITIAL	0	7	9	16
	REORDER	0	1	9	10

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

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

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost					3.7	21.3	36.5	24.1	48.9	49.0		183.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					3.7	21.3	36.5	24.1	48.9	49.0		183.5
Initial Spares												
Total Proc Cost					3.7	21.3	36.5	24.1	48.9	49.0		183.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
The objective of this Aircraft Survivability Equipment (ASE) project is to produce the Suite of Radio Frequency Countermeasures (SIRFC) system which will replace the current ASE radio freqency (RF) systems. The SIRFC Radar Warning Receiver (RWR) increases aircrew situational awareness by detecting and identifying RF signals associated with threat radar systems. The SIRFC system detects, identifies, and counters multiple, simultaneous, surface and airborne threat radars providing effective protection for Army aircraft against RF guided weapon systems. The SIRFC Jammer provides electronic coutermeasures (ECM) to reduce the ability of threat air defense systems to track the host platform.

Justification:
FY2006 begins NRE required to host the SIRFC RWR system onto the Army Aviation designated platforms.

FY2007 continues the NRE and begins the A-Kit integration effort.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: SIRFC (AZ3511)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$	$000	Units	$	$000	Units	$	$000	Units	$
Integration											4664		
Non-Recurring Engineering (NRE)								3286			14990		
Program Management								365			1607		
Total								**3651**			**21261**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
ASE INFRARED CM (AZ3507)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	23.2	45.7	112.8	271.1	211.2	266.2	343.2	420.7	317.8	243.5	2551.1	4806.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.2	45.7	112.8	271.1	211.2	266.2	343.2	420.7	317.8	243.5	2551.1	4806.5
Initial Spares												
Total Proc Cost	23.2	45.7	112.8	271.1	211.2	266.2	343.2	420.7	317.8	243.5	2551.1	4806.5
Flyaway U/C												
Wpn Sys Proc U/C												

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

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

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

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

FY 2005 funding does not include $8.6 million for the Force Protection/Urgent Need Equipping Reprogramming done in support of Operation Iraqi Freedom.

Justification:
FY 2006/2007 procures nonrecurring engineering and recurring production of the ATIRCM/CMWS A-Kits and B-Kits.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
A Kit	B	12272	124	99	30824	492	63	20724	314	66	27805	415	67
A Kit Installation		20789			15810			15000			20000		
CMWS Hardware	B	23311	103	226	66614	240	278	69600	240	290	70080	240	292
ATIRCM Hardware	B	13663	13	1051	39130	24	1630	39927	24	1664	39960	24	1665
Nonrecurring Engineering (NRE)		10000			13901			4000			15000		
Integration		7780			50965			5667			25000		
NET/ICS/Field Support		4328			10400			10470			17500		
Engineering Support		14361			17003			20500			21406		
Program Management		4302			9499			10650			11600		
Spares		1979			9506			10113			12839		
Software Support					7463			4500			5000		
Total		**112785**			**271115**			**211151**			**266190**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
ASE INFRARED CM (AZ3507)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A Kit										
FY 2004	Various Various	CPFF	Various	Mar 04	Oct 04	124	99	Yes		
FY 2005	Various Various	CPFF	Various	Oct 04	Mar 05	492	63	Yes		
FY 2006	Various Various	CPFF	Various	Dec 05	May 06	314	66	Yes		
FY 2007	Various Various	CPFF	Various	Dec 06	May 07	415	67	Yes		
CMWS Hardware										
FY 2004	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Feb 04	Jul 04	103	226	Yes		
FY 2005	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct 04	May 05	240	278	Yes		
FY 2006	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 05	Sep 06	240	290	Yes		
FY 2007	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Sep 07	240	292	Yes		
ATIRCM Hardware										
FY 2004	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Feb 04	Apr 06	13	1051	Yes		
FY 2005	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 04	Jan 06	24	1630	Yes		
FY 2006	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 05	Jan 07	24	1664	Yes		
FY 2007	BAE Systems (ATIRCM) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Jan 08	24	1665	Yes		

REMARKS: FY06/FY07 funding supports procurement of A-kits in support of SOA as well as aircraft integration efforts.

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE INFRARED CM (AZ3507)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit																													
	1	FY 04	A	124	0	124						A						10	10	10	10	15	25	25	19						0
	1	FY 05	A	492	0	492													A						20	39	39	39	39	39	277
	1	FY 06	A	314	0	314																									314
	1	FY 07	A	415	0	415																									415
CMWS Hardware																															
	2	FY 04	A	103	0	103					A				4	6	8	7	8	8	7	9	8	16	17	5					0
	2	FY 05	A	240	0	240													A							11	15	16	16	7	175
	2	FY 06	A	240	0	240																									240
	2	FY 07	A	240	0	240																									240
ATIRCM Hardware																															
	3	FY 04	A	13	0	13					A											0	0	0	1	1	1	1	1	2	6
	3	FY 05	A	24	0	24															A										24
	3	FY 06	A	24	0	24																									24
	3	FY 07	A	24	0	24																									24
Total				2253		2253									4	6	8	17	18	18	17	24	33	41	57	56	55	56	56	48	1739

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	Various , Various	18.00	200.00	400.00	0
2	BAE Systems (CMWS) , Nashua, NH	48.00	200.00	300.00	0
3	BAE Systems (ATIRCM) , Nashua, NH	12.00	48.00	120.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	3	6	9
	REORDER	0	3	6	9
2	INITIAL	0	4	10	14
	REORDER	0	1	9	10
3	INITIAL	0	4	10	14
	REORDER	0	1	12	13
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE INFRARED CM (AZ3507)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07										LATER
							Calendar Year 06												Calendar Year 07										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit																													
	1	FY 04	A	124	124	0																							0
	1	FY 05	A	492	215	277	39	39	39	40	40	40	40																0
	1	FY 06	A	314	0	314	A							35	35	30	30	30	29	25	25	15	15	15	15	15					0
	1	FY 07	A	415	0	415															A						15	25	30	30	315
CMWS Hardware																													
	2	FY 04	A	103	103	0	0	0	0																				0
	2	FY 05	A	240	65	175	0	0	0	0	0	0	20	20	20	20	20	20	20	20	15	0									0
	2	FY 06	A	240	0	240			A									0	0	0	5	20	20	20	20	20	20	20	20	20	55
	2	FY 07	A	240	0	240															A								0	240
ATIRCM Hardware																													
	3	FY 04	A	13	7	6	2	2	2																				0
	3	FY 05	A	24	0	24				2	2	2	2	2	2	2	2	2	2	2	2										0
	3	FY 06	A	24	0	24			A													2	2	2	2	2	2	2	2	2	6
	3	FY 07	A	24	0	24															A										24
Total				2253	514	1739	41	41	41	42	42	42	62	57	57	52	52	52	51	47	47	37	37	37	37	37	37	47	52	52	640
							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	18.00	200.00	400.00	0
2	BAE Systems (CMWS) , Nashua, NH	48.00	200.00	300.00	0
3	BAE Systems (ATIRCM) , Nashua, NH	12.00	48.00	120.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	0	3	6	9
	REORDER	0	3	6	9
2	INITIAL	0	4	10	14
	REORDER	0	1	9	10
3	INITIAL	0	4	10	14
	REORDER	0	1	12	13
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Production rates are yearly rates.

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ASE INFRARED CM (AZ3507)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09										LATER
							Calendar Year 08												Calendar Year 09										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit																													
	1	FY 04	A	124	124	0																							0
	1	FY 05	A	492	492	0																							0
	1	FY 06	A	314	314	0	0	0	0																				0
	1	FY 07	A	415	100	315	35	35	35	35	35	35	35	35	35														0
CMWS Hardware																													
	2	FY 04	A	103	103	0																							0
	2	FY 05	A	240	240	0																							0
	2	FY 06	A	240	185	55	20	20	15																				0
	2	FY 07	A	240	0	240	0	0	5	20	20	20	20	20	20	20	20	20	20	20	15								0
ATIRCM Hardware																													
	3	FY 04	A	13	13	0																							0
	3	FY 05	A	24	24	0																							0
	3	FY 06	A	24	18	6	2	2	2																				0
	3	FY 07	A	24	0	24			0	2	2	2	2	2	2	2	2	2	2	2	2								0
Total				2253	1613	640	57	57	57	57	57	57	57	57	57	22	22	22	22	22	17								
							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	18.00	200.00	400.00	0
2	BAE Systems (CMWS) , Nashua, NH	48.00	200.00	300.00	0
3	BAE Systems (ATIRCM) , Nashua, NH	12.00	48.00	120.00	0

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL		0	3	6	9
	REORDER		0	3	6	9
2	INITIAL		0	4	10	14
	REORDER		0	1	9	10
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 2005

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

P-1 Item Nomenclature
AIRBORNE COMMAND & CONTROL (AA0710)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	42.2	11.3	26.4	27.5	28.1	29.6	32.8	40.0	9.3			247.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	42.2	11.3	26.4	27.5	28.1	29.6	32.8	40.0	9.3			247.2
Initial Spares												
Total Proc Cost	42.2	11.3	26.4	27.5	28.1	29.6	32.8	40.0	9.3			247.2
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
FY 2006 / FY 2007 funds five A2C2Ss sets, respectively, which will be fielded to future OIF units.

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 2005		
ACFT Cost Elements	ID CD	**FY 04**			**FY 05**			**FY 06**			**FY 07**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
A2C2S Integration/CFE/GFE		18757	5	3751	15184	4	3796	19720	5	3944	19720	5	3944
Project Mgt/Production Eng		4936			5827			5816			7023		
Fielding (NET, Spares)		1979			2445			2519			2880		
Interim Contract Support		706			619								
Other Engineering Support													
Inmarsat Integration/Retrofit					3421								
Total		**26378**			**27496**			**28055**			**29623**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AIRBORNE COMMAND & CONTROL (AA0710)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A2C2S Integration/CFE/GFE										
FY 2004	Raytheon Huntsville, AL	FPI	AMCOM, AL	Apr 04	Oct 04	5	3751			N/A
FY 2005	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Jan 05	Oct 05	4	3796			N/A
FY 2006	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Nov 05	Jul 06	5	3944			N/A
FY 2007	RDECOM, PIF Redstone Arsenal,AL (JVYS)	MIPR	AMCOM, AL	Nov 06	May 07	5	3944			N/A

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AVIONICS SUPPORT EQUIPMENT (AZ3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Initial Spares												
Total Proc Cost	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Flyaway U/C												
Wpn Sys Proc U/C												

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

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
ANVIS/HUD (K35601)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	2925											2925
Gross Cost	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Initial Spares												
Total Proc Cost	426.7	11.3	24.4	5.1	3.4	2.7						473.6
Flyaway U/C												
Wpn Sys 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.

The AN/AVS-7, Heads-Up Display (HUD) is a system which works in conjunction with the Aviator's Night Vision Imaging System (ANVIS). The HUD collects critical flight information from aircraft sensors/cockpit displays and converts this information into visual imagery overlaid on the scene viewed through the night vision goggles. This system allows continuous heads-up flight by the pilot without looking at the instrument panel. This provides significant operational and safety enhancements to night vision goggle flight. The HUD is being installed on the CH-47D and UH-60 helicopters and supports the Stryker force.

Justification:
FY2006/2007 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 and the AN/AVS-7 enhance 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/HUD (K35601)			Weapon System Type:			Date: February 2005		
ACFT Cost Elements	ID CD	**FY 04**			**FY 05**			**FY 06**			**FY 07**		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
K35601 ANVIS/HUD													
ANVIS		22186	3949	6	4196	744	6	2657	437	6	1880	303	6
Engineering Support		108			147			333			340		
Project Management Admin		2045			437			111			113		
Engineering Change Orders					118			80			57		
Fielding		18			222			237			303		
Total		**24357**			**5120**			**3418**			**2693**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
ANVIS/HUD (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 2004	ITT ROANOKE, VA	C/FP	CECOM	Dec 03	Mar 05	655	6	Yes		
FY 2004	ITT ROANOKE, VA	C/FP	CECOM	Dec 03	Sep 04	3162	6	Yes		
FY 2004	ITT ROANOKE, VA	C/FP	CECOM	Jun 04	Mar 05	132	6	Yes		
FY 2005	ITT ROANOKE, VA	C/FP	CECOM	Nov 04	Sep 05	744	6	Yes		
FY 2006	ITT ROANOKE, VA	C/Options	CECOM	Dec 05	Sep 06	437	6	Yes		
FY 2007	ITT ROANOKE, VA	C/Options	CECOM	Dec 06	Sep 07	303	6	Yes		

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ANVIS/HUD (K35601)

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
K35601 ANVIS/HUD																													
	1	FY 04	A	655	0	655			A															54	54	54	54	54	55	55	275
	1	FY 04	A	3162	0	3162			A									208	208	208	262	264	263	263	263	263	263	264	264	54	115
	1	FY 04	A	132	0	132									A									8	8	8	36	8	8	8	48
	1	FY 05	A	744	0	744														A										62	682
	1	FY 06	A	437	0	437																									437
	1	FY 07	A	303	0	303																									303
Total				5433		5433												208	208	208	262	264	263	325	325	325	353	326	327	179	1860

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	ITT , ROANOKE, VA	25.00	210.00	355.00	120

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	4	2	14	16
	REORDER	1	2	8	10

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ANVIS/HUD (K35601)

Date: February 2005

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 04	A	655	380	275	55	55	55	55	55																		0
	1	FY 04	A	3162	3047	115	54	54	7																				0
	1	FY 04	A	132	84	48	8	8	8	8	16																		0
	1	FY 05	A	744	62	682	62	62	62	62	62	62	62	62	62	62	62													0
	1	FY 06	A	437	0	437			A									37	37	37	37	37	36	36	36	36	36	36	36		0
	1	FY 07	A	303	0	303															A								26	277
Total				5433	3573	1860	179	179	132	125	133	62	62	62	62	62	62	37	37	37	37	37	36	36	36	36	36	36	36	26	277

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	ITT , ROANOKE, VA	25.00	210.00	355.00	120

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	INITIAL	4	2	14	16	
	REORDER	1	2	8	10	
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					
	INITIAL					
	REORDER					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: ANVIS/HUD (K35601)

Date: February 2005

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 04	A	655	655	0																							0
	1	FY 04	A	3162	3162	0																							0
	1	FY 05	A	744	744	0																							0
	1	FY 06	A	437	437	0																							0
	1	FY 07	A	303	26	277	26	26	25	25	25	25	25	25	25	25	25												0
Total				5301	5024	277	26	26	25	25	25	25	25	25	25	25	25												

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
1	ITT , ROANOKE, VA	25.00	210.00	355.00	120

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	INITIAL	4	2	14	16
	REORDER	1	2	8	10
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				
	INITIAL				
	REORDER				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
COMMON GROUND EQUIPMENT (AZ3100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
63801/B32 63801/B33

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	610.9	19.3	16.5	56.3	70.4	84.1	92.7	97.9	83.2	78.6		1209.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	610.9	19.3	16.5	56.3	70.4	84.1	92.7	97.9	83.2	78.6		1209.9
Initial Spares												
Total Proc Cost	610.9	19.3	16.5	56.3	70.4	84.1	92.7	97.9	83.2	78.6		1209.9
Flyaway U/C												
Wpn Sys 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 Sets, Battle Damage Assessment and Repair (BDAR) System, Aircraft Cleaning and Deicing System (ACDS), Aviation Ground Power Unit (AGPU), Shop Equipment Contact Maintenance (SECM), Unit Maintenance Aerial Recovery Kit (UMARK), Digital Aircraft Weight Scales (DAWS), Generic Aircraft Nitrogen Generator (GANG), Aviation Turbine Engine Diagnostic System (ATEDS), Standard Aircraft Towing System, Multipurpose Aircraft Support System (SATS/MASS), Flexible Engine Diagnostics System (FEDS) Computer Replacements, Centralized Aviation Flight Record System (CAFRS) and Common Aviation Maintenance Management System (CAMMS). These products provide the finest materiel and support solutions to Army Aviation.

Justification:
FY 2006/2007 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. Aviation Ground Support Equipment (AGSE) also provides a means to correct safety-of-flight discrepancies which endanger both life and property. 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. International Standardized Organization (ISO), one-sided expandable shelters, contain AVIM Shop Set tool loads and provide the capability of maritime shipboard movement through commercial ports. These ISO containers are compatible with military/commercial roll-on/roll-off ships and military/commercial ground transportation. The Aviation Vibration Analyzer (AVA) system will provide off-aircraft capability to track and smooth rotor systems thereby reducing the associated damage to airframe and components caused by excessive vibration. AVA enhancement will increase capabilities and incorporate industry standard automation features which impact aviation safety, increase readiness, and reduce operations and maintenance (O&M) costs. Aviation Ground Power Units (AGPUs) will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for 400 hertz (Hz) electrical servicing of the Apache Longbow (AH-64D). The Shop Equipment Contact Maintenance (SECM) will provide the combat maintainer a contact maintenance vehicle with containerized tools/spares/modules for repair capability at the aircraft in support of the Army's Two Level Maintenance Concept.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2005
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /4/Support equipment and facilities		P-1 Item Nomenclature: COMMON GROUND EQUIPMENT (AZ3100)
Program Elements for Code B Items:	Code:	Other Related Program Elements: 63801/B32 63801/B33

The Standard Aircraft Towing System/Multipurpose Aircraft Support System (SATS/MASS) will be used to reposition fixed-wing and rotary-winged aircraft as well as AGSE in-and-around hangars and maintenance areas. It will be a Commercial Off The Shelf (COTS) type vehicle and will standardize the Army's aviation tug fleet along with reducing the logistics footprint through the use of standardized repair parts. The SATS/MASS provides a multipurpose support vehicle to complement AGSE modularization concept which is logistically supportable with the added benefit of reduced dependence on fossil fuels (Hybrid-Electric). This provides a critical maintenance enabler to the warfighter.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
63801/B32 63801/B33

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	253.3	10.9	16.5	56.3	70.4	84.1	92.7	97.9	82.1	77.6		841.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	253.3	10.9	16.5	56.3	70.4	84.1	92.7	97.9	82.1	77.6		841.8
Initial Spares												
Total Proc Cost	253.3	10.9	16.5	56.3	70.4	84.1	92.7	97.9	82.1	77.6		841.8
Flyaway U/C												
Wpn Sys 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 Sets, Battle Damage Assessment and Repair (BDAR) System, Aircraft Cleaning and Deicing System (ACDS), Aviation Ground Power Unit (AGPU), Shop Equipment Contact Maintenance (SECM), Unit Maintenance Aerial Recovery Kit (UMARK), Digital Aircraft Weight Scales (DAWS), Generic Aircraft Nitrogen Generator (GANG), Aviation Turbine Engine Diagnostic System (ATEDS), Standard Aircraft Towing System, Multipurpose Aircraft Support System (SATS/MASS), Flexible Engine Diagnostics System (FEDS) Computer Replacements, Centralized Aviation Flight Record System (CAFRS) and Common Aviation Maintenance Management System (CAMMS). These products provide the finest materiel and support solutions to Army Aviation.

Justification:
FY 2006/2007 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. Aviation Ground Support Equipment (AGSE) also provides a means to correct safety-of-flight discrepancies which endanger both life and property. 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. International Standardized Organization (ISO), one-sided expandable shelters, contain AVIM Shop Set tool loads and provide the capability of maritime shipboard movement through commercial ports. These ISO containers are compatible with military/commercial roll-on/roll-off ships and military/commercial ground transportation. The Aviation Vibration Analyzer (AVA) system will provide off-aircraft capability to track and smooth rotor systems thereby reducing the associated damage to airframe and components caused by excessive vibration. AVA enhancement will increase capabilities and incorporate industry standard automation features which impact aviation safety, increase readiness, and reduce operations and maintenance (O&M) costs. Aviation Ground Power Units (AGPUs) will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for 400 hertz (Hz) electrical servicing of the Apache Longbow (AH-64D). The Shop Equipment Contact Maintenance (SECM) will provide the combat maintainer a contact maintenance vehicle with containerized tools/spares/modules for repair capability at the aircraft in support of the Army's Two Level Maintenance Concept.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2005
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /4/Support equipment and facilities		P-1 Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)
Program Elements for Code B Items:	Code:	Other Related Program Elements: 63801/B32 63801/B33

The Standard Aircraft Towing System/Multipurpose Aircraft Support System (SATS/MASS) will be used to reposition fixed-wing and rotary-winged aircraft as well as AGSE in-and-around hangars and maintenance areas. It will be a Commercial Off The Shelf (COTS) type vehicle and will standardize the Army's aviation tug fleet along with reducing the logistics footprint through the use of standardized repair parts. The SATS/MASS provides a multipurpose support vehicle to complement AGSE modularization concept which is logistically supportable with the added benefit of reduced dependence on fossil fuels (Hybrid-Electric). This provides a critical maintenance enabler to the warfighter.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Nondestructive Test Equipment (NDTE)													
Hardware (NDTE)		1400	50	28							4320	216	20
Subtotal		**1400**									**4320**		
Shop Equipment Contact Maintenance (SECM)													
Hardware Increment I and II					4435	75	59	8024	136	59	6136	104	59
Fielding								10			20		
Evaluation of Equipment											275		
Subtotal					**4435**			**8034**			**6431**		
Aircraft Vibration Analyzer (AVA)													
Hardware Increment II (AVA)								1584	88	18	3870	215	18
T&E and Interim Contractor Spt (ICS)								218			730		
Fielding											42		
Subtotal								**1802**			**4642**		
Aviation Ground Power Unit (AGPU)													
Hardware AGPU MOD					3120	24	130	15470	119	130	4420	34	130
USAF AGPUs (incr to inventory)					1800	9	200	4000	20	200	2200	11	200
Commercial Replacement of Hyd Carts					2000	20	100	6800	68	100			
Hardware Increment II													
Non-Recurring Engineering (NRE)											1759		
Test Evaluation of Equipment											35		
Fielding								55			55		
Subtotal					**6920**			**26325**			**8469**		
Aviation Turbine Engine Diagnostic Sys (ATEDS)													
Hardware								945	45	21	2331	111	21
Fielding								16			16		
Subtotal								**961**			**2347**		
AVIM Shop Sets													
Hardware (AVIM Shop Sets)		2477	2	1239	7806	5	1561	4215	3	1405	4215	3	1405

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Retrofit w/ Added/Replaced Tools					750			750			750		
Armament/Electric Shop (1 Shelter)											2486	11	226
ISO Shelters - Reprocurement					152	2	76	960	8	120	960	8	120
ISO Shelters - Refurbishment		381			595	10	60	1045	19	55	1045	19	55
Rain Tester & Paint Booth		1655											
Shop Set Complex Refurbishment		2600											
Tool Store					160								
Fielding					22			14			10		
Brigade Aviation Element (BAE)								12000			19925		
Subtotal		**7113**			**9485**			**18984**			**29391**		
Unit Maintenance Aerial Recovery Kit (UMARK)													
Hardware w/crossbar (UMARK)		2342	51	46	490	14	35				420	12	35
Hardware w/o crossbar (UMARK)		1567	37	42							570	19	30
Subtotal		**3909**			**490**						**990**		
Battle Damage Assessment Repair Kit (BDAR)													
BDAR Hardware Increment I		1430	13	110	9680	88	110	10340	94	110	4400	40	110
Fielding					10			15			15		
Subtotal		**1430**			**9690**			**10355**			**4415**		
Standard Aircraft Towing System/ Multipurpose Aircraft Sys (SATS/MASS)													
Hardware Increment I								126	6	21	2877	137	21
Technical Manuals/Services								122					
Fielding											20		
Subtotal								**248**			**2897**		
Aircraft Cleaning and Deicing System (ACDS)													
Hardware (ACDS)					524	3	175						
Ancillary Items (deployment related)					150	3	50						
Nonrecurring Engineering													
Technical Manuals/Services					500								

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Provisioning (Initial Spares)					258								
Fielding					10								
Evaluation of Equipment					300								
Subtotal					**1742**								
Subtotal													
Central Avn Flight Record System (CAFRS)													
Software Module					3300								
Subtotal					**3300**								
Common Aviation Maint Mgmt Sys (CAMMS)													
Software Module					13760								
Subtotal					**13760**								
Program Management Support		2622			2814			2686			2779		
Subtotal		**2622**			**2814**			**2686**			**2779**		
Flexible Engine Diagnostic Systems													
(FEDS Computer Replacements)					1737	11	158						
Subtotal					**1737**								
Generic Aircraft Nitrogen Generator													
(GANG)					512	10	51				1088	16	68
Manpack Bottles					1440	120	12						
Subtotal					**1952**						**1088**		
New Aviation Tool System (NATS)													
Sheet Metal Tool Box											375	200	2
Electric Tool Box											120	113	1
Pnuedraulic Tool Box											145	119	1
Armament Team Box								475	100	5	670	141	5
Fielding											2		
Tool Box / Kit Modernization											2354		

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Subtotal								**475**			**3666**		
Digital Aircraft Weight Scales (DAWS)													
Hardware (DAWS)								266	14	19	950	50	19
T&E								300					
Subtotal								**566**			**950**		
AGSE Support To Modernization Aircraft													
Jacks 5T											108	87	1
Maintenance Platforms											865	47	18
Swaging Kit B											1780	62	29
Fuel Quantity Tester											181	41	4
Rail Trailer											161	60	3
AVUM #2											8618	62	139
Subtotal											**11713**		
Total		**16474**			**56325**			**70436**			**84098**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

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
Nondestructive Test Equipment (NDTE)										
Hardware (NDTE)										
FY 2004	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	MAY04	OCT04	50	28	YES		
FY 2007	TBS	C/FP	AMCOM	JAN07	JUN07	216	20	YES		
Shop Equipment Contact Maintenance										
(SECM)										
Hardware Increment I and II										
FY 2005	TBS	C/FP	AMCOM	APR05	APR06	75	59	NO	MAR05	
FY 2006	TBS	C/FP	AMCOM	APR06	APR07	136	59	NO	MAR05	
FY 2007	TBS	C/FP	AMCOM	APR07	APR08	104	59	NO	MAR05	
Aircraft Vibration Analyzer (AVA)										
Hardware Increment II (AVA)										
FY 2006	TBS	C/FP	AMCOM	FEB06	FEB07	88	18	YES		
FY 2007	TBS	C/FP	AMCOM	FEB07	FEB08	215	18	YES		
Aviation Ground Power Unit (AGPU)										

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

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
Hardware AGPU MOD										
FY 2005	OLR Savannah, GA	MIPR	AMCOM	DEC04	MAY05	24	130	YES		
FY 2006	OLR Savannah, GA	MIPR	AMCOM	DEC05	MAY06	119	130	YES		
FY 2007	OLR Savannah, GA	MIPR	AMCOM	DEC06	MAY07	34	130	YES		
USAF AGPUs (incr to inventory)										
FY 2005	OLR Savannah, GA	MIPR	AMCOM	DEC04	MAY05	9	200	YES		
FY 2006	OLR Savannah, GA	MIPR	AMCOM	DEC05	MAY06	20	200	YES		
FY 2007	OLR Savannah, GA	MIPR	AMCOM	DEC06	MAY07	11	200	YES		
Commercial Replacement of Hyd Carts										
FY 2005	TBS	MIPR	ACLC, Ft. Rucker, AL	DEC04	MAY05	20	100	NO		
FY 2006	TBS	MIPR	ACLC, Ft. Rucker, AL	DEC05	MAY06	68	100	NO		
Aviation Turbine Engine Diagnostic Sys (ATEDS) Hardware										
FY 2006	TBS	C/FP	AMCOM	MAR06	MAR07	45	21	NO	FEB06	

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2007	TBS	C/FP	AMCOM	MAR07	MAR08	111	21	NO	FEB06	
AVIM Shop Sets										
Hardware (AVIM Shop Sets)										
FY 2004	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN04	MAY04	2	1239	YES		
FY 2005	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN05	MAY05	5	1561	YES		
FY 2006	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN06	MAY06	3	1405	YES		
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	MAY07	3	1405	YES		
Armament/Electric Shop (1 Shelter)										
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	MAY07	11	226	YES		
ISO Shelters - Reprocurement										
FY 2005	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN05	MAY05	2	76	YES		
FY 2006	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN06	MAY06	8	120	YES		
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	MAY07	8	120	YES		
ISO Shelters - Refurbishment										
FY 2005	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN05	MAY05	10	60	YES		

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2006	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN06	MAY06	19	55	YES		
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	MAY07	19	55	YES		
Unit Maintenance Aerial Recovery Kit (UMARK)										
Hardware w/crossbar (UMARK)										
FY 2004	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	JAN04	JAN05	51	46	YES		
FY 2005	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	MAR05	JAN06	14	35	YES		
FY 2007	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	JAN07	JAN08	12	35	YES		
Hardware w/o crossbar (UMARK)										
FY 2004	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	JAN04	JAN05	37	42	YES		
FY 2007	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	JAN07	JAN08	19	30	YES		
Battle Damage Assessment Repair Kit (BDAR)										
BDAR Hardware Increment I										
FY 2004	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	APR04	APR05	13	110	YES		

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2005	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	APR05	APR06	88	110	YES		
FY 2006	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	APR06	APR07	94	110	YES		
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	APR07	APR08	40	110	YES		
Standard Aircraft Towing System/										
Multipurpose Aircraft Sys (SATS/MASS)										
Hardware Increment I										
FY 2006	TBS	C/FP	AMCOM	APR06	APR07	6	21	NO	MAR06	
FY 2007	TBS	C/FP	AMCOM	APR07	APR08	137	21	NO	MAR06	
Aircraft Cleaning and Deicing System										
(ACDS)										
Hardware (ACDS)										
FY 2005	Riveer South Bend, MI	SS/FP-O	AMCOM	FEB05	SEP05	3	175	YES		
Ancillary Items (deployment related)										
FY 2005	Riveer South Bend, MI	SS/FP-O	AMCOM	FEB05	SEP05	3	50	YES		
(FEDS Computer Replacements)										

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2005	Corpus Christie Army Depot Corpus Christie, TX	MIPR	AMCOM	DEC04	SEP05	11	158	YES		
(GANG)										
FY 2005	Pacific Consolidated Ind Riverside, CA	C/FP-O	Robins AFB	JAN05	SEP05	10	51	YES		
FY 2007	Pacific Consolidated Ind Riverside, CA	C/FP-O	Robins AFB	JAN07	SEP07	16	68	YES		
Manpack Bottles										
FY 2005	TBS	C/FP	Robins AFB	JUN05	FEB06	120	12	YES		
Sheet Metal Tool Box										
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	MAY07	200	2	YES		
Electric Tool Box										
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	JUN07	113	1	YES		
Pnuedraulic Tool Box										
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	SEP07	119	1	YES		
Armament Team Box										
FY 2006	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN06	AUG06	100	5	YES		
FY 2007	Prototype Integration Facility Redstone Arsenal, AL	C/FP	AMCOM	JAN07	AUG07	141	5	YES		

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)

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
Hardware (DAWS)										
FY 2006	Intercomp Minneapolis, MN	SS/FFP	AMCOM	JAN06	JUN06	14	19	YES		
FY 2007	Intercomp Minneapolis, MN	SS/FFP	AMCOM	JAN07	JUN07	50	19	YES		
Jacks 5T										
FY 2007	TBS	C/FP	AMCOM	JAN07	APR07	87	1	YES		
Maintenance Platforms										
FY 2007	TBS	C/FP	AMCOM	JAN07	OCT07	47	18	YES		
Swaging Kit B										
FY 2007	TBS	C/FP	AMCOM	JAN07	SEP07	62	29	YES		
Fuel Quantity Tester										
FY 2007	TBS	C/FP	AMCOM	JAN07	MAY07	41	4	YES		
Rail Trailer										
FY 2007	TBS	C/FP	AMCOM	JAN07	DEC07	60	3	YES		
AVUM #2										
FY 2007	TBS	C/FP	AMCOM	JAN07	JUL07	62	139	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
RDTE 0603801 (DB45), 0604801 (DC45), 0603827, 0604601

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	114.6	15.0	32.8	29.7	29.4	34.8	42.1	38.9	56.6	42.3		436.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	114.6	15.0	32.8	29.7	29.4	34.8	42.1	38.9	56.6	42.3		436.1
Initial Spares												
Total Proc Cost	114.6	15.0	32.8	29.7	29.4	34.8	42.1	38.9	56.6	42.3		436.1
Flyaway U/C												
Wpn Sys 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 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 currently 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/M Blackhawk, OH-58D Kiowa Warrior, and CH-47D/F 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, in-flight digital messaging, moving map, and 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 2006 / FY 2007 procures and fields the Air Warrior Block 1 basic ensemble, including A Kit and B Kit production and installations, and the Electronic Data Manager (EDM) for deploying units. FY 2007 begins procurement of the Aircraft Wireless Intercom System (AWIS).

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Hardware													
-													
Air Warrior Block 1 Ensembles		7580	2666	2.8	6795	3800	1.8	8385	2431	3.4	9743	2800	3.5
Air Warrior A Kits		2672	192	13.9	4820	285	16.9	5400	374	14.4	5223	374	14.0
A Kit Installs		1570			2708			2562			2562		
Air Warrior Microclimate Cooling Garment		1053	2043	0.5	1396	2850	0.5	1811	3220	0.6	1884	3220	0.6
Air Warrior Microclimate Cooling Units		8665	1141	7.6	5150	612	8.4	2311	248	9.3	3107	339	9.2
-													
Block 2													
Electronic Data Mgr (EDM)					360	45	8.0	576	64	9.0	756	84	9.0
EDM A Kits					501	53	9.5	1024	128	8.0	1344	168	8.0
Acft Wireless Intercom Sys (AWIS)											1528	100	15.3
AWIS A Kits											550	100	5.5
EDM/AWIS Installs					230			276			445		
-													
Cockpit Air Bags (CABS) System & Install													
---CABS A Kits		304	95	3.2									
---CABS B Kits		566	20	28.3	736	26	28.3						
---CABS Installs		530			190								
-													
Total Hardware Costs		**22940**			**22886**			**22345**			**27142**		
Other Costs													
Manuals		50			60			70			95		
New Equipment Training		35			40			70			95		
Initial Spares & Repair Parts		339			300			290			380		
Support Equipment		210			180			200			280		
Systems Test and Evaluation		166			130			147			172		
Total Other Costs		**800**			**710**			**777**			**1022**		
Nonrecurring Costs													
Nonrecurring Engineering													
Total Nonrecurring Costs													
Air Warrior ECP		300			310			350			410		
Systems Integration Engineering		2608			2050			2000			2100		
Project Management Admin		2619			2892			3000			3120		

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Units	$000	$000	Units	$000	$000	Units	$000	$000	Units	$000
Total ECP, Sys Int, & Admin Costs		**5527**			**5252**			**5350**			**5630**		
Support Costs													
Fielding		646			706			720			825		
Contract Logistics Support		135			140			160			202		
Other													
Helibasket Technology		2800											
Total		**32848**			**29694**			**29352**			**34821**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Air Warrior Block 1 Ensembles										
FY 2004	Simula, Inc. Phoenix, AZ	C/FP	Redstone Arsenal, AL	Feb 04	Jun 04	2666	2.8	Yes		Feb 03
FY 2005	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Dec 04	Mar 05	3800	1.8	Yes		Feb 03
FY 2006	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 06	Apr 06	2431	3.4	Yes		Feb 03
FY 2007	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 07	Apr 07	2800	3.5	Yes		Feb 03
Air Warrior A Kits										
FY 2004	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Feb 04	Jun 04	192	13.9	Yes		Dec 02
FY 2005	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Jan 05	Apr 05	285	16.9	Yes		Dec 02
FY 2006	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 05	Apr 06	374	14.4	Yes		Dec 02
FY 2007	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 06	Apr 07	374	14.0	Yes		Dec 02
Air Warrior Microclimate Cooling Garment										
FY 2004	Carleton Technologies, Inc. Orchard Park, NY	C/FP	Redstone Arsenal, AL	Dec 03	Apr 04	2043	0.5	Yes		Aug 02
FY 2005	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 04	Apr 05	2850	0.5	Yes		Aug 02
FY 2006	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 05	Apr 06	3220	0.6	Yes		Aug 02
FY 2007	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 06	Apr 07	3220	0.6	Yes		Aug 02

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

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Air Warrior Microclimate Cooling Units										
FY 2004	Carleton Technologies, Inc. Orchard Park, NY	C/FP	Redstone Arsenal, AL	Dec 03	Jul 04	1141	7.6	Yes		Aug 02
FY 2005	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 04	Jun 05	612	8.4	Yes		Aug 02
FY 2006	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 05	Jun 06	248	9.3	Yes		Aug 02
FY 2007	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 06	Jun 07	339	9.2	Yes		Aug 02
Electronic Data Mgr (EDM)										
FY 2005	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Mar 05	Jul 05	45	8.0	Yes		Jan 05
FY 2006	Raytheon Technical Services Indianapolis, IN	SS/Option	Redstone Arsenal, AL	Dec 05	Apr 06	64	9.0	Yes		Jan 05
FY 2007	Raytheon Technical Services Indianapolis, IN	SS/Option	Redstone Arsenal, AL	Dec 06	Apr 07	84	9.0	Yes		Jan 05
EDM A Kits										
FY 2005	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Mar 05	Jul 05	53	9.5	Yes		Jan 05
FY 2006	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 05	Apr 06	128	8.0	Yes		Jan 05
FY 2007	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 06	Apr 07	168	8.0	Yes		Jan 05
Acft Wireless Intercom Sys (AWIS)										
FY 2007	TBS TBS	C/FP	TBS	Jan 07	Jun 07	100	15.3	No		

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

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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
AWIS A Kits										
FY 2007	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Jan 07	Jun 07	100	5.5	No		
---CABS A Kits										
FY 2004	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Dec 03	Aug 04	95	3.2	Yes		
---CABS B Kits										
FY 2004	Simula, Inc. Phoenix, AZ	SS/FP	Redstone Arsenal, AL	Jan 04	Feb 05	20	28.3	Yes		
FY 2005	Simula, Inc. Phoenix, AZ	SS/Option	Redstone Arsenal, AL	Jun 05	Mar 06	26	28.3	Yes		

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

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 04 OCT	FY 04 NOV	FY 04 DEC	CY 04 JAN	CY 04 FEB	CY 04 MAR	CY 04 APR	CY 04 MAY	CY 04 JUN	CY 04 JUL	CY 04 AUG	CY 04 SEP	FY 05 OCT	FY 05 NOV	FY 05 DEC	CY 05 JAN	CY 05 FEB	CY 05 MAR	CY 05 APR	CY 05 MAY	CY 05 JUN	CY 05 JUL	CY 05 AUG	CY 05 SEP	LATER
Air Warrior Block 1 Ensembles																															
	6	FY 04	A	2666	0	2666					A				260	401	430	430	430	430	285										0
	6	FY 05	A	3800	0	3800															A			128	572	500	520	520	520	520	520
	6	FY 06	A	2431	0	2431																									2431
	6	FY 07	A	2800	0	2800																									2800
Air Warrior A Kits																															
	9	FY 04	A	192	0	192					A				20	45	45	56	26												0
	9	FY 05	A	285	0	285																A			20	36	80	80	69		0
	9	FY 06	A	374	0	374																									374
	9	FY 07	A	374	0	374																									374
Air Warrior Microclimate Cooling Garment																															
	10	FY 04	A	2043	0	2043			A				160	112	270	270	270	270	270	270	151										0
	10	FY 05	A	2850	0	2850															A				238	238	238	238	238	238	1422
	10	FY 06	A	3220	0	3220																									3220
	10	FY 07	A	3220	0	3220																									3220
Air Warrior Microclimate Cooling Units																															
	10	FY 04	A	1141	0	1141			A							92	162	168	168	168	168	168	47								0
	10	FY 05	A	612	0	612															A						50	50	50	50	412
	10	FY 06	A	248	0	248																									248

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL	6	4	4	8
	REORDER	0	1	3	4
9	INITIAL	5	4	4	8
	REORDER	0	2	3	5
10	INITIAL	4	2	4	6
	REORDER	0	1	4	5
13	INITIAL	0	5	4	9
	REORDER	0	1	4	5
	INITIAL				
	REORDER				

REMARKS

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05										LATER
							Calendar Year 04												Calendar Year 05										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
	10	FY 07	A	339	0	339																								339
Electronic Data Mgr (EDM)																														
	13	FY 05	A	45	0	45																		A				25	20	0
	13	FY 06	A	64	0	64																								64
	13	FY 07	A	84	0	84																								84
EDM A Kits																														
	9	FY 05	A	53	0	53																		A				25	25	3	0
	9	FY 06	A	128	0	128																								128
	9	FY 07	A	168	0	168																								168
Acft Wireless Intercom Sys (AWIS)																														
	14	FY 07	A	100	0	100																								100
AWIS A Kits																														
	9	FY 07	A	100	0	100																								100
---CABS A Kits																														
	9	FY 04	A	95	0	95			A								95													0
---CABS B Kits																														
	6	FY 04	A	20	0	20				A																				0
	6	FY 05	A	26	0	26																								26
Total				27478		27478							160	112	550	808	1002	924	894	868	604	168	67	128	830	774	888	938	922	811	16030

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL	6	4	4	8
	REORDER	0	1	3	4
9	INITIAL	5	4	4	8
	REORDER	0	2	3	5
10	INITIAL	4	2	4	6
	REORDER	0	1	4	5
13	INITIAL	0	5	4	9
	REORDER	0	1	4	5
	INITIAL				
	REORDER				

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 06 / CY 06 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 07 / CY 07 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Air Warrior Block 1 Ensembles																															
	6	FY 04	A	2666	2666	0																									0
	6	FY 05	A	3800	3280	520	520																								0
	6	FY 06	A	2431	0	2431				A			370	520	520	511	510														0
	6	FY 07	A	2800	0	2800																A			320	520	520	520	520	400	0
Air Warrior A Kits																															
	9	FY 04	A	192	192	0																									0
	9	FY 05	A	285	285	0																									0
	9	FY 06	A	374	0	374			A				20	46	62	60	60	60	41	25											0
	9	FY 07	A	374	0	374															A				24	50	50	55	55	55	85
Air Warrior Microclimate Cooling Garment																															
	10	FY 04	A	2043	2043	0																									0
	10	FY 05	A	2850	1428	1422	238	238	238	238	238	232																			0
	10	FY 06	A	3220	0	3220			A				270	270	270	270	270	270	270	270	270	270	270	250							0
	10	FY 07	A	3220	0	3220															A				270	270	270	270	270	270	1600
Air Warrior Microclimate Cooling Units																															
	10	FY 04	A	1141	1141	0																									0
	10	FY 05	A	612	200	412	50	50	50	50	50	50	50	50	12																0
	10	FY 06	A	248	0	248			A						38	50	50	50	50	10											0

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL	6	4	4	8
	REORDER	0	1	3	4
9	INITIAL	5	4	4	8
	REORDER	0	2	3	5
10	INITIAL	4	2	4	6
	REORDER	0	1	4	5
13	INITIAL	0	5	4	9
	REORDER	0	1	4	5
	INITIAL				
	REORDER				

REMARKS

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 06 OCT	FY 06 NOV	FY 06 DEC	CY 06 JAN	CY 06 FEB	CY 06 MAR	CY 06 APR	CY 06 MAY	CY 06 JUN	CY 06 JUL	CY 06 AUG	CY 06 SEP	FY 07 OCT	FY 07 NOV	FY 07 DEC	CY 07 JAN	CY 07 FEB	CY 07 MAR	CY 07 APR	CY 07 MAY	CY 07 JUN	CY 07 JUL	CY 07 AUG	CY 07 SEP	LATER
	10	FY 07	A	339	0	339															A						50	50	50	50	139
Electronic Data Mgr (EDM)																															
	13	FY 05	A	45	45	0																									0
	13	FY 06	A	64	0	64			A				20	20	24																0
	13	FY 07	A	84	0	84															A				20	20	20	24			0
EDM A Kits																															
	9	FY 05	A	53	53	0																									0
	9	FY 06	A	128	0	128			A				32	32	32	32															0
	9	FY 07	A	168	0	168															A				42	42	42	42			0
Acft Wireless Intercom Sys (AWIS)																															
	14	FY 07	A	100	0	100																A					20	20	20	20	20
AWIS A Kits																															
	9	FY 07	A	100	0	100																A					20	20	20	20	20
---CABS A Kits																															
	9	FY 04	A	95	95	0																									0
---CABS B Kits																															
	6	FY 04	A	20	20	0																									0
	6	FY 05	A	26	0	26						26																			0
Total				27478	11448	16030	808	288	288	288	288	308	762	938	958	923	890	380	361	305	270	270	270	250	676	902	992	1001	935	815	1864

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL	6	4	4	8
	REORDER	0	1	3	4
9	INITIAL	5	4	4	8
	REORDER	0	2	3	5
10	INITIAL	4	2	4	6
	REORDER	0	1	4	5
13	INITIAL	0	5	4	9
	REORDER	0	1	4	5
	INITIAL				
	REORDER				

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08 / Calendar Year 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Fiscal Year 09 / Calendar Year 09 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
Air Warrior Block 1 Ensembles																															
	6	FY 04	A	2666	2666	0																									0
	6	FY 05	A	3800	3800	0																									0
	6	FY 06	A	2431	2431	0																									0
	6	FY 07	A	2800	2800	0																									0
Air Warrior A Kits																															
	9	FY 04	A	192	192	0																									0
	9	FY 05	A	285	285	0																									0
	9	FY 06	A	374	374	0																									0
	9	FY 07	A	374	289	85	55	30																							0
Air Warrior Microclimate Cooling Garment																															
	10	FY 04	A	2043	2043	0																									0
	10	FY 05	A	2850	2850	0																									0
	10	FY 06	A	3220	3220	0																									0
	10	FY 07	A	3220	1620	1600	270	270	270	270	270	250																			0
Air Warrior Microclimate Cooling Units																															
	10	FY 04	A	1141	1141	0																									0
	10	FY 05	A	612	612	0																									0
	10	FY 06	A	248	248	0																									0

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number			ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL		6	4	4	8
	REORDER		0	1	3	4
9	INITIAL		5	4	4	8
	REORDER		0	2	3	5
10	INITIAL		4	2	4	6
	REORDER		0	1	4	5
13	INITIAL		0	5	4	9
	REORDER		0	1	4	5
	INITIAL					
	REORDER					

REMARKS

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

Date: February 2005

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FY 08 / CY 08 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FY 09 / CY 09 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
	10	FY 07	A	339	200	139	50	50	39																						0
Electronic Data Mgr (EDM)																															
	13	FY 05	A	45	45	0																									0
	13	FY 06	A	64	64	0																									0
	13	FY 07	A	84	84	0																									0
EDM A Kits																															
	9	FY 05	A	53	53	0																									0
	9	FY 06	A	128	128	0																									0
	9	FY 07	A	168	168	0																									0
Acft Wireless Intercom Sys (AWIS)																															
	14	FY 07	A	100	80	20	20																								0
AWIS A Kits																															
	9	FY 07	A	100	80	20	20																								0
---CABS A Kits																															
	9	FY 04	A	95	95	0																									0
---CABS B Kits																															
	6	FY 04	A	20	20	0																									0
	6	FY 05	A	26	26	0																									0
Total				27478	25614	1864	415	350	309	270	270	250																			

MFR	NAME/LOCATION	PRODUCTION RATES MIN.	1-8-5	MAX.	REACHED D+
6	Simula, Inc. , Phoenix, AZ	1000.00	4000.00	8000.00	0
9	Westwind Corporation , Huntsville, AL	190.00	600.00	1000.00	0
10	Carleton Technologies, Inc. , Orchard Park, NY	150.00	2000.00	4000.00	0
13	Raytheon Technical Services , Indianapolis, IN	25.00	600.00	1200.00	0

MFR Number		ADMINLEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
6	INITIAL	6	4	4	8
	REORDER	0	1	3	4
9	INITIAL	5	4	4	8
	REORDER	0	2	3	5
10	INITIAL	4	2	4	6
	REORDER	0	1	4	5
13	INITIAL	0	5	4	9
	REORDER	0	1	4	5
	INITIAL				
	REORDER				

REMARKS

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	246.2	63.3	59.5	55.2	62.4	77.7	83.6	71.4	76.3	83.8		879.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	246.2	63.3	59.5	55.2	62.4	77.7	83.6	71.4	76.3	83.8		879.4
Initial Spares												
Total Proc Cost	246.2	63.3	59.5	55.2	62.4	77.7	83.6	71.4	76.3	83.8		879.4
Flyaway U/C												
Wpn Sys 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 Unit of Action (UA), Unit of Employment - X (UEx) and Unit of Employment Y (UEy). TAIS AWS is a stand alone workstation for A2C2 planning and execution at the Brigade Combat Team (BCT) level 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 aautomated A2C2 capability for all digitization initiatives into the next century. ATNAVICS and TAIS serve as effective risk management tools for aviation safety during night, inclement weather, and combat operations. TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. Fixed Base ATC requirements will be met through a vast array of high technology solutions resulting in highly reliable and safe ATC systems. The Joint DoD/Federal Aviation Administration (FAA) program will modernize the National Airspace System (NAS) to include 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), FMQ-13 Wind Monitor, Instrument Landing System (ILS), Beacon Interrogator 6 (BI6). 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:
FY 2006/2007 procures tactical and fixed base ATC systems. Funds for tactical ATC systems provides for production of TAIS, TAIS AWS, ATNAVICS and TTCS. These tactical ATC systems replace previous generation equipment that is obsolete and not economically supportable, ensuring Army ATC and airspace management and command and control systems are capable of supporting the path ahead to the Future Force. Fixed base ATC systems provide the Army a joint service capability to procure specific fixed base ATC systems required for the joint DoD FAA modernization and upgrade of the NAS. These systems will save significant Operational and Support costs by replacing old, obsolete, and antiquated analog radars, switches, and automation systems with new, state of the art, highly reliable ATC systems in towers and approach control facilities. Equipment quantity and configuration is tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures interoperability between the Army and FAA systems.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIR TRAFFIC CONTROL (AA0050)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Fixed Base Precision Approach Radar													
Hardware-Precision Approach Radar		2678	1	2678				2971	1	2971	6180	2	3090
Engineer, Furnish & Install (EF&I)		718			155			800			1648		
Fielding		532			548			888			1636		
Data		19						50			52		
Subtotal Costs		**3947**			**703**			**4709**			**9516**		
Voice Communication Switching Syst(VCSS)													
Hardware (VCSS)		1625	5	325									
2nd Level Eng Spt (FAA)					95			110					
Engineer, Furnish & Install (EF&I)		705			727			380					
Fielding		418			385			170					
Subtotal Cost		**2748**			**1207**			**660**					
DoD Advanced Automation System (DAAS)													
Hardware (DAAS)		1024	1	1024	3238	2	1619				2817	2	1409
Hardware (DAAS) Remote Tower Only					1200	3	400	800	2	400	2400	6	400
Engineer, Furnish & Install (EF&I)		1398			1353			1948			2555		
Operational Support Facility (OSF)		1101			1152			1281			1449		
Training		150			181			108			450		
Subtotal Costs		**3673**			**7124**			**4137**			**9671**		
Digital Airport Surveillance Radar(DASR)													
Hardware (DASR)		2369	1	2369	2401	1	2401	4982	2	2491	5110	2	2555
Other Associated Hardware		396			411			700			720		
Engineer, Furnish, & Install (EF&I)		2556			2235			4793			4918		
Subtotal Costs		**5321**			**5047**			**10475**			**10748**		
Tactical Airspace Integration Sys (TAIS)													
Hardware (TAIS)		11884	4	2971	11177	4	2794	8487	3	2829			
Software Support		5337			2332			3070			1571		
GFE		3618			3484			2862					
Interim Contractor Support (ICS)		971											
Testing		60			700			210					
Fielding/NET		2352			2367			2433			2412		
Interactive Multi-Media Instruction(IMI)								800			800		

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Subtotal Costs		**24222**			**20060**			**17862**			**4783**		
Air Traffic Navigation and Integration													
Hardware (ATNAVICS)		10863	5	2173	10500	4	2625	15121	4	3780	16725	5	3345
GFE		1721			1321			1348			1685		
Interim Contract Support (ICS)		402											
Fielding		2735			1928			2463			2425		
Engineering Services		3557			2548			2295			5477		
Subtotal Costs		**19278**			**16297**			**21227**			**26312**		
Wind Monitor													
FMQ-13 Hardware		314	75	4									
Training		15											
Subtotal Costs		**329**											
TAIS Airspace Workstation (AWS)													
Airspace Workstations								1192	24	50	2247	45	50
Software Licenses								882			1736		
Fielding								507			997		
Subtotal Costs								**2581**			**4980**		
Instrument Landing System (ILS)													
Engineer, Furnish & Install (EF&I)											600		
new element													
Subtotal Costs											**600**		
TTCS Upgrade													
TTCS Hardware					4265	16	267				3900	17	229
TTCS Fielding					532			748			1428		
Subtotal Costs					**4797**			**748**			**5328**		
Beacon Interrogator 6 (BI6)													
BI6 Hardware											2210	4	553
BI6 Fielding											3563		

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 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
Subtotal Costs											**5773**		
Total		**59518**			**55235**			**62399**			**77711**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AIR TRAFFIC CONTROL (AA0050)

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
Hardware-Precision Approach Radar										
FY 2004	Raytheon Cambridge, MA	C/FP-O	CECOM	Feb 04	May 06	1	2678	Yes		
FY 2006	Raytheon Cambridge, MA	SS/FFP	AMCOM	Jan 06	Jul 07	1	2971	Yes		
FY 2007	Raytheon Cambridge, MA	SS/FFP	AMCOM	Jan 07	Aug 08	2	3090	Yes		
Hardware (VCSS)										
FY 2004	Litton/Denro Gaithersburg MD	C/FP-O	FAA	Jan 04	Jul 04	5	325	Yes		
Hardware (DAAS)										
FY 2004	Raytheon Marlborough MA	C/FP-O	FAA	Feb 04	Feb 05	1	1024	Yes		
FY 2005	Raytheon Marlborough MA	C/FP-O	FAA	Jan 05	Jan 06	2	1619	Yes		
FY 2007	Raytheon Cambridge, MA	C/FP-O	FAA	Jan 07	Jan 08	2	1409	Yes		
Hardware (DAAS) Remote Tower Only										
FY 2005	Raytheon Cambridge, MA	C/FP-O	FAA	Jan 05	Jan 06	3	400	Yes		
FY 2006	Raytheon Cambridge, MA	C/FP-O	FAA	Jan 06	Jan 07	2	400	Yes		
FY 2007	Raytheon Cambridge, MA	C/FP-O	FAA	Jan 07	Jan 08	6	400	Yes		
Hardware (DASR)										

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AIR TRAFFIC CONTROL (AA0050)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2004	Raytheon Cambridge, MA	C/FP-O	USAF	Feb 04	Feb 06	1	2369	Yes		
FY 2005	Raytheon Cambridge, MA	C/FP-O	USAF	Mar 05	Mar 07	1	2401	Yes		
FY 2006	Raytheon Cambridge, MA	C/FP-O	USAF	Mar 06	Mar 08	2	2491	Yes		
FY 2007	Raytheon Cambridge, MA	C/FP-O	USAF	Mar 07	Mar 09	2	2555	Yes		
Hardware (TAIS)										
FY 2004	General Dynamics Falls Church Virginia	C/FP-O	AMCOM	Dec 03	Dec 04	4	2971	Yes		
FY 2005	General Dynamics Falls Church Virginia	C/FP-O	AMCOM	Dec 04	Dec 05	4	2794	Yes		
FY 2006	General Dynamics Falls Church Virginia	C/FP-O	AMCOM	Dec 05	Dec 06	3	2829	Yes		
Hardware (ATNAVICS)										
FY 2004	Raytheon Cambridge, MA	C/FP-O	CECOM	Jan 04	Jan 05	5	2173	Yes		
FY 2005	Raytheon Cambridge, MA	C/FP-O	CECOM	Mar 05	Jun 06	4	2625	Yes		
FY 2006	Raytheon Cambridge, MA	SS/FFP	AMCOM	Mar 06	Jun 07	4	3780	Yes		
FY 2007	Raytheon Cambridge, MA	SS/FFP	AMCOM	Mar 07	Jun 08	5	3345	Yes		
FMQ-13 Hardware										
FY 2004	Sutron Corporation Sterling, VA	C/FFP	USAF	Jun 04	Sep 04	75	4	Yes		

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
AIR TRAFFIC CONTROL (AA0050)

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
Airspace Workstations										
FY 2006	General Dynamics Falls Church Virginia	SS/FFP	AMCOM	Dec 05	May 06	24	50	Yes		
FY 2007	General Dynamics Falls Church Virginia	SS/FFP	AMCOM	Dec 06	May 07	45	50	Yes		
TTCS Hardware										
FY 2005	Harris Corporation Rochester, NY	SS/FFP	AMCOM	Dec 04	Mar 05	16	267	Yes		
FY 2007	Harris Corporation Rochester, NY	SS/FFP	AMCOM	Dec 06	Mar 07	17	229	Yes		
BI6 Hardware										
FY 2007	Federal Aviation Admin (FAA) Washingon, DC	C/FP-0	FAA	Jan 07	Jun 07	4	553	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
INDUSTRIAL FACILITIES (AZ3300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	407.1	0.7	1.2	45.0	41.2	2.1	2.3	2.5	1.6	1.6		505.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	407.1	0.7	1.2	45.0	41.2	2.1	2.3	2.5	1.6	1.6		505.3
Initial Spares												
Total Proc Cost	407.1	0.7	1.2	45.0	41.2	2.1	2.3	2.5	1.6	1.6		505.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:
This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Aviation Technical Test Center (ATTC), Fort Rucker, AL and, beginning in FY 2007, Yuma Proving Ground, Yuma (YPG), AZ. It also funds aviation sustainment level (Depot) tools, tool sets and test equipment for the four Aviation Classification and Repair Activity Depots (AVCRAD).

Justification:
For ATTC, the FY 2006 / FY 2007 request procures upgraded Local Area Network components and interfaces used in handling large volumes of test data (replacement of obsolete servers, storage systems and other LAN equipment used for helicopter test data processing. LAN upgrades will provide increased reliability and decrease downtime due to equipment failure. Software upgrades will enhance security and provide stable, vendor supported platforms for development activities.); state-of-the-art engineering PC based workstations and tools for engineers to use in test data analysis, presentation, and reporting (workstation systems and engineering analysis software provide access to aviation performance and system test data); on-board instrumentation recorder for monitoring high speed digital avionics busses; various types of airborne instrumentation including analog and inertial sensors, Global Positioning System receivers, signal conditioning units, various types of data acquisition equipment and cockpit display components used to obtain aircraft performance data; new telemetry system components (Bit Sync, Receivers, Time Code Generators, etc.) and replacement of aging data acquisition systems, telemetry computer systems and telemetry operator stations; calibration and support equipment for flight test instrumentation and cameras and video recorders to capture in-flight events and document equipment failures. At YPG: Development of a ground thermal target to test aircraft electro-optical systems and replacement analytical equipment for post mission data analysis and graphics data production of Best Estimate of Trajectory, Time, Space and Position Information Data Optimal Processor and Target Motion Resolution data. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded it's economic life. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

For AVCRAD, procures selected depot level tools for the Aviation Classification Repair Activity Depots (AVCRADs) to begin performing selected depot repairs of Aircraft and Airframe components for the National Maintenance Program.

Exhibit P-40C, Budget Item Justification Sheet		Date: February 2005
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /4/Support equipment and facilities		P-1 Item Nomenclature: INDUSTRIAL FACILITIES (AZ3300)
Program Elements for Code B Items:	Code:	Other Related Program Elements:

Tools will include various state-of-the-art special tools and test equipment to enable troubleshooting and repair of airborne instrumentation. This equipment includes generator test stands, hydraulic test stands, an Electr-Optics Test Facility (EOTF), magic box and accessories, APU test stands, TIP CAP balance fixtures, analog and inertial sensors, Global Positioning System receivers, signal conditioning units, aircraft survivability equipment, avionics, communications, and navigation equipment. Additionally, procures some larger tools used for manufacturing and overhaul of power train; power plant; hydraulic, armament, prop and rotor and engine components. Benefits of these procurements include lower Army O&S costs, increased readiness and increased safety of flight while fully supporting Army Aviation Logistics Transformation.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
LAUNCHER, 2.75 ROCKET (A50100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	56.5	2.6	2.5	2.4	2.3	2.3	2.3	2.4	2.8	3.0		79.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.5	2.6	2.5	2.4	2.3	2.3	2.3	2.4	2.8	3.0		79.2
Initial Spares												
Total Proc Cost	56.5	2.6	2.5	2.4	2.3	2.3	2.3	2.4	2.8	3.0		79.2
Flyaway U/C												
Wpn Sys 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:
FY06/07 procures M260 7-tube rocket launchers for AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. Procurement replaces launchers expended as a result of annual rocket firings for training and replenishes the limited issuable stockage that has been depleted below levels acceptable to support training and war reserve requirements of Active Army, Special Operations Forces and Reserve Component usage.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

P-1 Item Nomenclature
AIRBORNE COMMUNICATIONS (AA0705)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	249.6	43.7	22.5	12.9								328.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	249.6	43.7	22.5	12.9								328.7
Initial Spares												
Total Proc Cost	249.6	43.7	22.5	12.9								328.7
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:
No budget request. Follow on radios being procured on Airborne Avionics Budget Line.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: AIRBORNE COMMUNICATIONS (AA0705)	Weapon System Type:	Date: February 2005

ACFT Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		$000	Each	$000	$000	Each	$000	$000	Each	$000	$000	Each	$000
RECURRING COSTS													
A. AN/ARC-220 NOE HF Airborne Radio													
B. AN/VRC-100 Ground Radio													
C. A-Kits		17280	116	149	2681	15	179						
D. A-Kit Installation		2177	85	26	4631	174	27						
SUBTOTAL		**19457**			**7312**								
SUPPORT COST													
A. Fielding Support		1898			2869								
B. Program Management		1124			538								
SUBTOTAL		**3022**			**3407**								
TAPO EFFORT													
AN/ARS-6 Personnel Locator					2200								
SUBTOTAL					**2200**								
Total		**22479**			**12919**								