DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
FY 2007 Supplemental Budget Estimate

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

February 2007

Table of Contents - Aircraft Procurement, Army

TABLE OF CONTENTS

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

FY 2007 Supplemental Budget Estimate Submission

DATE: 05-Feb-2007

APPROPRIATION Aircraft Procurement, Army

		FY 2007 Dollars in Thousands			
		Baseline	**Title IX**	**Supplemental**	**Total**
ACTIVITY		**COST**	**COST**	**COST**	**COST**
01	Aircraft	676,939	320,100	144,303	1,141,342
02	Modification of aircraft	1,452,438	1,132,500	232,200	2,817,138
04	Support equipment and facilities	488,391	8,700	251,247	748,338
APPROPRIATION TOTALS		**2,617,768**	**1,461,300**	**627,750**	**4,706,818**

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

			FY 2007 Dollars in Thousands							
			Baseline		Title IX		Supplemental		Total	
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	ROTARY									
3	ARMED RECONNAISSANCE HELICOPTER (A04203)			101,409				38,000		139,409
5	UH-60 BLACKHAWK (MYP) (AA0005)		39	575,530	20	320,100	7	106,303	66	1,001,933
	SUB-ACTIVITY TOTAL			676,939		320,100		144,303		1,141,342
	ACTIVITY TOTAL			**676,939**		**320,100**		**144,303**		**1,141,342**

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

FY 2007 Supplemental Budget Estimate Submission

DATE: 05-Feb-2007

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

FY 2007 Dollars in Thousands

			Baseline		Title IX		Supplemental		Total	
LINE NO	**ITEM NOMENCLATURE**	**ID**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**	**QTY**	**COST**
	MODIFICATIONS OF AIRCRAFT									
8	GUARDRAIL MODS (TIARA) (AZ2000)			57,767				33,000		90,767
9	ARL MODS (TIARA) (AZ2050)	A		37,847				15,000		52,847
10	AH-64 MODS (AA6605)	A		774,866		621,000		64,200		1,460,066
12	CH-47 CARGO HELICOPTER MODS (AA0252)			581,958		511,500		120,000		1,213,458
	SUB-ACTIVITY TOTAL			1,452,438		1,132,500		232,200		2,817,138
	ACTIVITY TOTAL			**1,452,438**		**1,132,500**		**232,200**		**2,817,138**

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

FY 2007 Dollars in Thousands

			Baseline		Title IX		Supplemental		Total	
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	GROUND SUPPORT AVIONICS									
23	ASE INFRARED CM (AZ3507)			304,403				231,555		535,958
	SUB-ACTIVITY TOTAL			304,403		0		231,555		535,958
	OTHER SUPPORT									
26	COMMON GROUND EQUIPMENT (AZ3100)			57,352		2,200		1,811		61,363
27	AIRCREW INTEGRATED SYSTEMS (AZ3110)			40,632				10,200		50,832
28	AIR TRAFFIC CONTROL (AA0050)			86,004		6,500		7,681		100,185
	SUB-ACTIVITY TOTAL			183,988		8,700		19,692		212,380
	ACTIVITY TOTAL			**488,391**		**8,700**		**251,247**		**748,338**
	APPROPRIATION TOTAL			**2,617,768**		**1,461,300**		**627,750**		**4,706,818**

NOMENCLATURE INDEX

SSN INDEX

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				18						18
Gross Cost				139.4						139.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				139.4						139.4
Initial Spares										
Total Proc Cost				139.4						139.4
Flyaway U/C										
Weapon System Proc U/C										

Description:

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

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

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

Justification:

FY 2007 Base Appropriation	$101.4 M
FY 2007 Title IX (Bridge) Appropriation	$
FY 2007 Main Supplemental Request	$ 38.0 M
FY 2007 Total	$139.4 M

FY07 Main Supplemental will fund 6 ARH LRIP aircraft.

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Contract Flyaway								111960	18	6220.0
Government Flyaway								11357		
Total Flyaway								**123317**		
Armament / Mission Kits								4941		
Training Devices / Services								2997		
Support Equipment								5465		
Other Support								2689		
Total Other Procurement								**16092**		
Gross P-1 End Cost								**139409**		
Less: Prior Year Adv Proc										
Net P-1 Full Funding Cost										
Plus: P-1 CY Adv Proc										
Other Non P-1 Costs										
Total:								**139409**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Contract Flyaway										
FY 2007	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Jun 07	Jun 08	12	6306			DEC 04
FY 2007	Bell Helicopter Textron, Inc Fort Worth, TX	FFP	Fort Worth, TX	Jun 07	Oct 08	6	6048			DEC 04

REMARKS: FY07 Supplemental award for 6 ARH aircraft to replace Kiowa Warrior combat losses, will be included in the existing ARH Low Rate Initial Production (LRIP) options which are included as part of the Systems Development and Demonstration (SDD) contract awarded in July 2005.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08											Later
										Calendar Year 07														Calendar Year 08								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Aircraft																														
	1	FY 07	A	12	0	12									A												1	1	2	2	6
	2	FY 07	A	6	0	6									A																6
Total				18		18																					1	1	2	2	12
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct
1	Initial	0	9	12	21
	Reorder	0	1	12	13
2	Initial	0	9	16	25
	Reorder	0	1	12	13
	Initial				
	Reorder				
	Initial				
	Reorder				
	Initial				
	Reorder				

REMARKS
Line 2 represents the fielding schedule for the 6 LRIP aircraft funded with the FY07 Supplemental which replaces KW combat losses.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ARMED RECONNAISSANCE HELICOPTER (A04203)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
										Calendar Year 09														Calendar Year 10								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Aircraft																														
	1	FY 07	A	12	6	6	2	2	2																					0
	2	FY 07	A	6	0	6	2	2	2																					0
Total				18	6	12	4	4	4																					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Bell Helicopter Textron, Inc, Fort Worth, TX	1	2	2		1	Initial	0	9	12	21	
							Reorder	0	1	12	13	
2	Bell Helicopter Textron, Inc, Fort Worth, TX	1	2	2		2	Initial	0	9	16	25	
							Reorder	0	1	12	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				66						66
Gross Cost				1079.9						1079.9
Less PY Adv Proc				78.0						78.0
Plus CY Adv Proc				185.1						185.1
Net Proc P1				1187.0						1187.0
Initial Spares										
Total Proc Cost				1187.0						1187.0
Flyaway U/C										
Weapon System Proc U/C				16.3					18.9	35.2

Description:
UH-60 BLACK HAWK and associated equipment.

Justification:

FY 2007 Base Appropriation	$ 575.5 M
FY 2007 Base Appropriation (Advanced Procurement)	$ 185.1 M
FY 2007 Title IX (Bridge) Appropriation	$ 320.1 M
FY 2007 Main Supplemental Request	$ 106.3 M
FY 2007 Total	$1,187.0 M

FY07 Baseline includes Advance Procurement.
Quantity of 66 helicopters includes 39 in the FY07 Baseline, 20 funded in the FY07 Bridge Supplemental, and 7 funded in the FY07 Main Supplemental.

FY 2007 Base Budget in the amount of $737.3 million will procure 39 UH-60M aircraft, one of which will become Commander in Chief (COM) HAWK aircraft, continues fielding, and provides for PM operations. Additionally $19.2M was added for 1 HH-60M. A follow on five year multiyear, multiservice contract will be awarded covering requirements for FY07-FY11 to procure the Army UH-60M and the Navy's MH-60S and MH-60R aircraft.

FY2007 Title IX Supplemental in the amount of $320.1 million will procure 15 UH-60M and 5 HH-60M MEDEVAC aircraft to replace those lost in the Global War on Terrorism.

FY 2007 Main Supplemental in the amount of $106.3 million will procure 7 additional UH-60M aircraft.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty				66						66
Gross Cost				1079.9						1079.9
Less PY Adv Proc				78.0						78.0
Plus CY Adv Proc				185.1						185.1
Net Proc P1				1187.0						1187.0
Initial Spares										
Total Proc Cost				1187.0						1187.0
Flyaway U/C										
Weapon System Proc U/C				16.3					18.9	35.2

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

Justification:

FY 2007 Base Appropriation	$ 575.5 M
FY 2007 Base Appropriation (Advanced Procurement)	$ 185.1 M
FY 2007 Title IX (Bridge) Appropriation	$ 320.1 M
FY 2007 Main Supplemental Request	$ 106.3 M
FY 2007 Total	$1,187.0 M

FY07 Baseline includes Advance Procurement.
Quantity of 66 helicopters includes 39 in the FY07 Baseline, 20 funded in the FY07 Bridge Supplemental, and 7 funded in the FY07 Main Supplemental.

FY 2007 Base Budget in the amount of $737.3 million will procure 39 UH-60M aircraft, one of which will become Commander in Chief (COM) HAWK aircraft, continues fielding, and provides for PM operations. Additionally $19.2M was added for 1 HH-60M. A follow on five year multiyear, multiservice contract will be awarded covering requirements for FY07-FY11 to procure the Army UH-60M and the Navy's MH-60S and MH-60R aircraft.

FY2007 Title IX Supplemental in the amount of $320.1 million will procure 15 UH-60M and 5 HH-60M MEDEVAC aircraft to replace those lost in the Global War on Terrorism.

FY 2007 Main Supplemental in the amount of $106.3 million will procure 7 additional UH-60M aircraft.

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft	P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)	Weapon System Type:	Date: February 2007

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Aircraft Flyaway Costs										
Airframes/CFE								758168	66	11487.394
Engines/Accessories								86592	132	656.000
Avionics (GFE)								33318		
Other GFE								33974		
Armament										
ECO (All FLYAWAY Components)								16400		
Other Costs (Mission Equipment)								37852		
Tooling Equipment								6872		
Other Nonrecurring Cost								947		
Total FLYAWAY								**974123**		
Support Cost										
Airframe PGSE										
Engine PGSE										
Peculiar Training Equipment								50050		
Publications/Tech Data								1070		
PM Administration								17943		
Fielding								32638		
Subtotal Support Cost								**101701**		
Gross P-1 End Item Cost								**1075824**		
Less: Prior Year Adv Proc								77991		
Net P-1 Full Funding Cost								**997833**		
Plus: P-1 CY Adv Proc								185098		
Initial Spares										
UH60A to UH-60L Conversion								4100		
Total:								**1187031**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Airframes/CFE										
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Nov 06	Jul 08	18	11487	Yes		Sep 00
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	May 07	Sep 07	38	11487	Yes		May 05
FY 2007	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	May 07	May 09	10	11487	Yes		May 05

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

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08											Later
							Calendar Year 07												Calendar Year 08											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 07	A	18	0	18		A																		1		1	1	2	13
	1	FY 07	A	10	0	10								A																	10
	1	FY 07	A	38	0	38								A				2	3	4	4	4	4	6	5	3	3				0
	1	FY 07	NA	25	0	25																2	2	2	2	3	2	2	2	2	6
	1	FY 07	NA	18	0	18										2	2	1	2	2	1	1	2	2	1	1	1				0
Total				109		109										2	2	3	5	6	5	7	8	10	8	8	6	3	3	4	29
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS
Leadtimes only applicable to programs with prior year advance procurement.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09												Fiscal Year 10											Later
										Calendar Year 09													Calendar Year 10									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																														
	1	FY 07	A	18	5	13	2	2	2	3	3	1																		0
	1	FY 07	A	10	0	10		1	2	1	1	1	1	1	2															0
	1	FY 07	A	38	38																									0
	1	FY 07	NA	25	19	6	2	2	2																					0
	1	FY 07	NA	18	18																									0
Total				109	80	29	4	5	6	4	4	2	1	1	2															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS
FY07 quantity consists of 56 UH-60M aircraft and 10 HH-60M Medevac aircraft. Navy is procuring both the MH-60R and the MH-60S.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				90.8						90.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				90.8						90.8
Initial Spares										
Total Proc Cost				90.8						90.8
Flyaway U/C										
Weapon System Proc U/C										

Description:

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

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

Justification:

FY 2007 Base Appropriation	$57.8 M
FY 2007 Title IX (Bridge) Appropriation	$
FY 2007 Main Supplemental Request	$33.0 M
FY 2007 Total	$90.8 M

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

The FY07 $33M Supplemental Budget will provide for System Upgrades to GRCS systems rotating to OIF. Upgrading the air to ground signal processing and dissemination architecture increases throughput capability and speed. This maximizes the Army's investment in GRCS upgrades, including precision geolocation and upper frequency extension efforts. This further allows GRCS to exploit high value emitters quicker and in greater numbers, which is critical when the warfighter needs the information in minutes vice hours and days.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
GUARDRAIL Information Node (GRFN)											
1-01-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIGINT Transition Program (STP)											
1-02-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interference Cancellation Sys/Radio Relay Sys											
1-02-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JTT Upgrades											
1-03-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Airborne Tactical Common Data Link											
1-03-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upward Frequency extension (UFX)											
1-05-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
System 2 Tracker & LAN Upgrade											
1-05-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guardian Eagle System Upgrades											
1-03-333-3333		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comm High Accuracy Location Sys-Compact (CHALS-											
1-06-111-2006		0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	8.3
System 2 Stabilization											
1-06-222-2006		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enhance Situational Awareness (ESA) 1,2,4											
1-06-333-2006		0.0	0.0	0.0	49.5	0.0	0.0	0.0	0.0	0.0	49.5
Air to Ground Signal Processing and Dissemination											
1-07-111-2007		0.0	0.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	33.0
Totals		0.0	0.0	0.0	90.8	0.0	0.0	0.0	0.0	0.0	90.8

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

2QFY07 - Contract Awd (2nd system)
1QFY09 - Field (2nd system)

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

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Non-Recurring Installation A-Kits																				
Recurring Fabrication A-Kits							9	0.9											9	0.9
Non-recurring CHALS-C																				
Recurring CHALS-C Equipment							9	3.5											9	3.5
Data/Training								0.4												0.4
Ancilliary Equipment								0.4												0.4
Spares								0.6												0.6
Test/Fielding Support								1.4												1.4
PM Support/TDY								0.3												0.3
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits							8	0.8											8	0.8
FY 2007 Equip -- Kits																				
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	8	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.8
Total Procurement Cost		0.0		0.0		0.0		8.3		0.0		0.0		0.0		0.0		0.0		8.3

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: System 1, 2 & 4

DESCRIPTION / JUSTIFICATION:

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

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

2QFY07 Award 1st ADPU/RFD Contract

4QFY09 Field 1st ADPU/RFD Upgrade

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

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
ADPU Sys Engr NRE								6.9												6.9
ADPU Recurring Engr B-Kit							9	10.8											9	10.8
ADPU Recurring Eng A-Kit/HW								0.2												0.2
ADPU Integrate/Test								6.2												6.2
RFD Sys Engr NRE								6.3												6.3
RFD Recurring Engr B-Kit							9	11.7											9	11.7
RFD Recurring A-Kit HW								0.5												0.5
RFD Integrate/Test								3.1												3.1
Spares (ADPU/RFD)								3.6												3.6
Interim Contractor Support																				
PM In House Support								0.2												0.2
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		49.5		0.0		0.0		0.0		0.0		0.0		49.5

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Air to Ground Signal Processing and Dissemination [MOD 12] 1-07-111-2007

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

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

Installation Schedule

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

	FY 2010				FY 2011				FY 2012				FY 2013				To	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	8																	24
Outputs		8																24

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): Air to Ground Signal Processing and Dissemination [MOD 12] 1-07-111-2007

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Ist Sys Ground NRE & HW/RE							1	3.2											1	3.2
1st Sys Air NRE and HW/RE							8	6.0											8	6.0
1st Sys Training and Doc								0.5												0.5
2nd Sys Ground NRE & HW/RE							1	3.2											1	3.2
2nd Sys Air NRE and HW/RE							8	6.0											8	6.0
2nd Sys Training and Doc								0.5												0.5
3rd Sys Ground NRE & HW/RE							1	3.2											1	3.2
3rd Sys Air NRE and HW/RE							8	6.0											8	6.0
3rd Sys Training and Doc								0.5												0.5
PM In House Spt								0.9												0.9
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits 3 sys							3	3.0											3	3.0
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	3	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	3.0
Total Procurement Cost		0.0		0.0		0.0		33.0		0.0		0.0		0.0		0.0		0.0		33.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				52.8						52.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				52.8						52.8
Initial Spares										
Total Proc Cost				52.8						52.8
Flyaway U/C										
Weapon System Proc U/C										

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

Justification:

FY 2007 Base Appropriation	$37.8 M
FY 2007 Title IX (Bridge) Appropriation	$
FY 2007 Main Supplemental Request	$15.0 M
FY 2007 Total	$52.8 M

FY07 procures the standardization and modernization of the ARL fleet. ARL's evolved into three different system configurations: ARL-M in CENTCOM (OIF), ARL-C and ARL-M in SOUTHCOM and ARL-Ms in Republic of Korea (ROK). The budget in FY07 initiates the base lining of the fleet by providing a common architecture for sensor management and workstation Man Machine Interface (MMI), downlinks and communications, common sensors across the fleet, and cockpit and safety standardization. This standardization will also address reducing the maintenance burden and operational support costs. Sensors will also be modernized to address emerging threats and requirements. FY07 Supplemental procures 2 training systems, sensor upgrades and spares to

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

maintain relevancy and OPTEMPO for C-12R Air Reconnaissance Multi-Sensor (ARMS) Systems.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Radar											
0-00-05-2222	Operational	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
Imagery											
0-00-05-3333	Operational	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0
Workstation Architecture											
1-08-11-0000	Operational	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
Aircraft Survivability Equipment (ASE)											
9-99-99-0000	Operational	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.0
Upgrade to DAMA Compliant Radio											
3-33-333-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comint Upgrades											
6-66-66-0000	Operational	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	6.6
Aircraft Standardization											
8-88-88-0000	Operational	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	5.7
Joint Tactical Terminal (JTT) Integration											
0-11-00-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARL-C to ARL-M Conversion											
0-00-07-7777	Operational	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	8.5
TF ODIN C-12R ARMS											
0-00-00-0000	Operational	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	15.0
Totals		0.0	0.0	0.0	52.8	0.0	0.0	0.0	0.0	0.0	52.8

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

	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																		
Outputs																		

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							5	2.5											5	2.5
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Software								0.3												0.3
PMO Support								0.1												0.1
Spares								0.5												0.5
AWR								0.1												0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							5	1.5											5	1.5
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	5	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	1.5
Total Procurement Cost		0.0		0.0		0.0		5.0		0.0		0.0		0.0		0.0		0.0		5.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures Imagery upgrade for the ARL-M Fleet. The MX-20s will be modified to reflect the current standard (to include the addition of laser illuminators, haze filters, geo-position software, and image processing algorithms). This will standardize all video sensors. All ARLs will be outfitted with a digital pan camera for wide field of view high resolution imaging. This capability will be used for near real time mapping, BDA, coherent change detection, and spatial/spectral filtering. Keeping the IMINT capability current will provide the ability to exploit any manner of targets expected to be encountered in the GWOT. Quantities below reflect modification kits for the ARL-M fleet.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							1	2.0											1	2.0
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring								0.3												0.3
Engineering Change Orders																				
Test								0.2												0.2
Software																				
Support Equipment, Spares																				
AWR																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							1	0.5											1	0.5
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	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5
Total Procurement Cost		0.0		0.0		0.0		3.0		0.0		0.0		0.0		0.0		0.0		3.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

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

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data								2.0												2.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring								0.3												0.3
Engineering Change Orders/Data								0.5												0.5
Software Modifications																				
Training Equipment																				
Testing								0.6												0.6
Gov't In-House/Prog Mgt																				
Contractor Engineering																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits							6	0.6											6	0.6
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	6	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.6
Total Procurement Cost		0.0		0.0		0.0		4.0		0.0		0.0		0.0		0.0		0.0		4.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION / JUSTIFICATION:

FY07 procures the COMINT upgrade modification that will add a COMINT System to M1, M2, M3, C1 and C2. This includes a complete Acquisition and DF antenna manifold, TSP system, navigation interfaces, and MMI. This will allow the ARL to have a standard COMINT capability which can support operations in support of OIF and OEF (GWOT). The system will include a frequency extension and architectural modifications for federated acquisition boxes (to allow rapid threat response). The system will also be configured for remote operations and multi-level security operation.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							4	3.6											4	3.6
Installation Kits, Nonrecurring																				
Equipment								1.0												1.0
Equipment, Nonrecurring																				
Testing								0.5												0.5
Software																				
Govt In-House/Program Mgt								0.1												0.1
Engineering Change Orders								1.0												1.0
Support Equipment (Spares)																				
Interim Contractor Support																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits							1	0.4											1	0.4
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4
Total Procurement Cost		0.0		0.0		0.0		6.6		0.0		0.0		0.0		0.0		0.0		6.6

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							3	5.4											3	5.4
Installation Kits, Nonrecurring								0.1												0.1
Equipment																				
Testing								0.2												0.2
Engineering Change Orders																				
Contractor Engineering																				
Training Equipment																				
Support Equipment																				
Govt In-House/Program Mgt																				
Interim Contractor Support																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		5.7		0.0		0.0		0.0		0.0		0.0		5.7

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: ARL C1 will convert to ARL M7

DESCRIPTION / JUSTIFICATION:

FY07 procures the conversion of the one ARL-C into a full multi-function aircraft. The conversion will consist of a Triport (three sensor positions) modification to allow for the installation of EO/IR, Digital Camera, or radar payloads (the radar payload will be purchased under the Radar modification); aircraft navigation modification; ASE modification; aircraft power modification; and COMINT antenna modifications. The current COMINT infrastructure will be replaced (COMINT payload will be purchased under COMINT upgrade modification). This modification will also provide an imagery capability (EO/IR and digital pan camera); upgrade the communications suite; and modify the Mission Analysts Workstations.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 18 months

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Data																				
Installation Kits							1	4.5											1	4.5
Installation Kits, Nonrecurring								1.9												1.9
Equipment								1.8												1.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Test								0.2												0.2
Support Equipment																				
Program Management								0.1												0.1
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		8.5		0.0		0.0		0.0		0.0		0.0		8.5

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: TF ODIN C-12R ARMS [MOD 10] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: C-12R

DESCRIPTION / JUSTIFICATION:

FY07 supplement procures 2 training systems, sensor upgrades and spares to maintain relevancy and OPTEMPO for Task Force ODIN C-12R ARMS systems. ARMS reduces the potential of IED detonation through aerial detection. TF ODIN C12-R ARMS systems provides dedicated aerial IED surveillance along OIF MSRs. This will fill the current training gap for replacement Mission Analyst personnel training after all operational ARMS systems are deployed.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

3QFY07 Contract Award
1QFY08 Begin Installation
2QFY08 Installation 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														2							
Outputs															2						

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

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 5 months

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): TF ODIN C-12R ARMS [MOD 10] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Installation Kits							2	0.5											2	0.5
Installation Kits, Nonrecurring																				
Equipment								4.0												4.0
Test								0.7												0.7
Spares								1.5												1.5
PMO								0.9												0.9
Upgrade NRE								3.7												3.7
Support Equipment																				
Other																				
Interim Contractor Support								0.2												0.2
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits							2	3.5											2	3.5
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	2	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.5
Total Procurement Cost		0.0		0.0		0.0		15.0		0.0		0.0		0.0		0.0		0.0		15.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				1478.8						1478.8
Less PY Adv Proc				18.7						18.7
Plus CY Adv Proc				18.9						18.9
Net Proc P1				1479.0						1479.0
Initial Spares				2.9						2.9
Total Proc Cost				1481.9						1481.9
Flyaway U/C										
Weapon System Proc U/C										

Description:

Current program provides for an Apache Attack Helicopter fleet consisting of AH-64A and AH-64D model Apache attack helicopters, all equipped with a single main rotor, twin engines, and a tandem cockpit. The Army Acquisition Objective has been changed to 634 Longbow AH-64D. In addition, 18 Longbow War Replacement Aircraft (WRA) were added in the FY 07 main supplemental appropriation. Principal Aircraft components are: the Target Acquisition Designation Sight (TADS and Modernized TADS) is housed in a turret on the nose of the AH-64 and consists of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/ Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Apache aircraft is armed with the Hellfire Antitank Missile, 2.75 inch rockets, and a 30mm gun capable of defeating armor by day or night and in adverse weather. The more advanced Longbow Apache aircraft (AH-64D) incorporates the Longbow weapon system and provides the U.S. Army with a significant improvement in target acquisition and firepower effectiveness, increasing the survivability, lethality, and adverse weather fighting capabilities of the Apache. The AH-64D model is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, and a fire and forget Longbow HELLFIRE missile.

Justification:

FY 2007 Base Appropriation	$ 774.9 M
FY 2007 Base Appropriation (Adv Proc)	$ 18.9 M
FY 2007 Title IX (Bridge) Appropriation	$ 621.0 M
FY 2007 Main Supplemental Request	$ 64.2 M
FY 2007 Total	$1,479.0 M

FY 2007 Baseline includes 36 Extended Block II Upgrades, TADS/PNVS Upgrades, Miscellaneous mods, M-TADS/PNVS and asssociated displays, Internal Auxiliary Fuel System (IAFS), Reliability & Safety (R & S) modifications, Selected Component Recapitalization, FCR Obsolescence and Integration, Apache Transformation, and Post Production Organic Support.

FY 2007 Title IX (Bridge) provides 18 Longbow War Replacement Aircraft (WRA).

FY 2007 Main Supplemental includes 240 Aircraft Survivability Improvement kits.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
TADS/PNVS Upgrades											
1-94-01-2005		0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	5.4
AH-64A MISC Mods $5M or less (no P3a set)											
OSIP		0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.3
Apache Transformation											
OSIP		0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		0.0	0.0	0.0	206.0	0.0	0.0	0.0	0.0	0.0	206.0
701C Engines (no P3a set)											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Auxiliary Fuel System (IAFS)											
OSIP		0.0	0.0	0.0	23.3	0.0	0.0	0.0	0.0	0.0	23.3
AH-64 R&S & Recap											
OSIP		0.0	0.0	0.0	76.3	0.0	0.0	0.0	0.0	0.0	76.3
AH-64D Block III											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Control Radar (FCR)Obsolescence & Integration											
OSIP		0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.0
AH-64 Training Devices											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AH-64 Block II Upgrade											
OSIP		0.0	0.0	0.0	471.7	0.0	0.0	0.0	0.0	0.0	471.7
AH-64 Post Production Organic Support											
OSIP		0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.3
AH-64D Longbow Replacement Aircraft											
0-00-00-0000		0.0	0.0	0.0	621.0	0.0	0.0	0.0	0.0	0.0	621.0
Apache Aircraft Survivability Improvement Program											
0-00-00-0000		0.0	0.0	0.0	64.2	0.0	0.0	0.0	0.0	0.0	64.2

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2007
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, PE23744 D12 & D17
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Totals		0.0	0.0	0.0	1479.2	0.0	0.0	0.0	0.0	0.0	1479.2

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Operational, and logistical improvement.

Provides for system upgrade through new/updated hardware integration into Lots III thru XIII TADS/PNVS systems. This is a critical stage in the Longbow remanufacturing effort as it produces a single configuration TADS/PNVS to the AH-64D for the AH64D Extended Block II Upgrade. This mod facilitates maintainers' access to TADS/PNVS systems thereby allowing for accelerated application of outstanding ECPs and MWOs. Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrade/integration of hardware in the TADS/PNVS.

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										6	6	6	9								
Outputs											6	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																		
Outputs																		18

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity							27												27	
T/P FFP/T&M/CFE/O&A								4.6												4.6
Equipment (GFE)								0.8												0.8
Other																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- 64 Kits																				
FY2006 Equip -- 35 Kits																				
FY2007 Equip -- 27 Kits							27												27	
FY2008 Equip -- 36 Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	27	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	0.0
Total Procurement Cost		0.0		0.0		0.0		5.4		0.0		0.0		0.0		0.0		0.0		5.4

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64A Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Modernized Target Acquisition & Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) modification program is the Army initiative to provide 2nd Generation Forward Looking Infrared (SGF) (FLIR) sensors for the Apache fleet. Suite modifications encompass: M-TADS/PNVS Line Replaceable Units (LRU), TADS Electronic Display and Control (TEDAC) assemblies, and the Integrated Helmet and Display Sight System (IHADSS) assemblies. The SGF system improves overall pilotage and enhances the pilot's ability to engage targets during night and bad weather. Specifically: increased detection range, enhanced recognition and target identification; higher resolution and sensitivity for safety and pilotage performance (especially in adverse weather); better identifying of friend/foe during hostilities; and increased reliability and reduction in O&S costs. The complementary TEDAC and IHADSS upgrades exploit the expanded capability of the M-TADS/PNVS. FY07 procures 180 units. M-TADS installation costs are not separately priced in the contract. Other Support procures TDA Salaries, In-house Matrix and Contractor Support for the Apache PMO. GFE, factory and retrofit installation and integration costs, TEDAC, and IHADSS. Output schedule planning based on unit training and deployment schedules.

Production Lead Time includes contractual provision for deliveries of full up M-TADS systems as government furnished equipment for War Replacement Aircraft with congressional supplemental funding prior to Lot 4 Arrowhead Kit production.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Oct 00 -- MTADS/PNVS EMD/SDD contract award June 05 -- MTADS/PNVS FUE
Jan 01 -- Preliminary Design Review (PDR); Aug 01 -- Critical Design Review (CDR)
May 02 -- Qualification testing
Jul 03 -- MTADS/PNVS Advance Procurement Contract award
Dec 03 -- MTADS/PNVS Production Contract Award
Apr 04 -- SDD Contract completion
Jan 05 -- MTADS/PNVS Lot 2 Production Contract Award Jul 06 -- Lot 3 Contract Award
Feb 07 -- Lot 4 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																					
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																		
Outputs																		

INDIVIDUAL MODIFICATION				Date: February 2007	
METHOD OF IMPLEMENTATION:	Contract Lot 4	ADMINISTRATIVE LEADTIME:	9 months	PRODUCTION LEADTIME:	23 months
Contract Dates:	FY 2006 - Apr 06		FY 2007 - Feb 07		FY 2008 - Feb 08
Delivery Dates:	FY 2006 - Oct 07		FY 2007 - Jan 09		FY 2008 - Aug 09

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							180	170.7											180	170.7
Equipment, Nonrecurring																				
TEDAC/IHDSS								23.1												23.1
Other Support								12.2												12.2
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip 4 Kits																				
FY2005 Equip 6 Kits																				
FY2006 Equip 146 Kits																				
FY2007 Equip 180 Kits																				
FY2008 Equip 91 Kits																				
FY2009 Equip 128 Kits																				
TC Equip- 0 Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		206.0		0.0		0.0		0.0		0.0		0.0		206.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

The Internal Auxiliary Fuel System (IAFS) is ballistically tolerant, crashworthy, and self sealing; and increases 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.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

November 05 Contract Awarded.

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										12	12	12	12								
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																		48
Outputs																		

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

Contract Dates:	FY 2006 - Nov 05	FY 2007 - Nov 06	FY 2008 - Nov 07
Delivery Dates:	FY 2006 - Feb 06	FY 2007 - Feb 07	FY 2008 - Feb 08

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
A Kits							48	1.0											48	1.0
B Kits (No Installation)							92	20.5											92	20.5
Support Equipment								1.5												1.5
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 210 Kits																				
FY 2007 Equip 45 Kits								0.3												0.3
FY 2008 Equip 48 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	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.3
Total Procurement Cost		0.0		0.0		0.0		23.3		0.0		0.0		0.0		0.0		0.0		23.3

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 06 - Contract Option
Jan 07 - Contract Option

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										24	24	24	24								
Outputs										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																		
Outputs																		96

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							129	73.6											129	73.6
Other Support																				
Non-recurring engineering																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip 192 Kits							96	2.7											96	2.7
FY 2007 Equip 129 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	96	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	96	2.7
Total Procurement Cost		0.0		0.0		0.0		76.3		0.0		0.0		0.0		0.0		0.0		76.3

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funding for the AH-64 Block II Upgrade supports the revised Modernized Strategy for the Apache Helicopter which was approved by the VCSA 1 Nov 2004. The plan allows for the remanufacture of an additional 96 AH-64A aircraft to the AH-64D (Lots 11-13) configuration, 36 in FY07. 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 MILESTONE(S):

Contract Award, Lot 11 with options for lots 12 and 13 -- November 2006 (FY 07)

Installation Schedule

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

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

Contract

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
Procurement																				
Kit Quantity							36												36	
Equipment								423.3												423.3
Advance Procurement (P-10)								19.0												19.0
Other Support								29.4												29.4
Training																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- 36 Kits																				
FY 2009 Equip -- 36 Kits																				
FY 2010 Equip -- 24 Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		471.7		0.0		0.0		0.0		0.0		0.0		471.7

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

Funding will procure eighteen (18) Longbow Apache aircraft (with Fire Control Radar) to replace those helicopters attrited during Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). Essentially, these 18 replacement aircraft will be the same Lot 13 configuration as the Extended Block II Reman contract, but will be fitted with a new fuselage rather than a remanufactured one. This provides a standard configuration for the most economical production. This production schedule coincides with the end of Extended Block II Lot 13 production and continues at the minimum sustained production rate filling the current Extended Block II-Block III gap by four months.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Forecast contract award, Mar 2007

Delivery (18); Jul 2009 through Sep 2010

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																		
Outputs																		

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 28 months

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

Delivery Dates: FY 2006 - FY 2007 - Jul 09 FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Kit Quantity							18	621.0											18	621.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- 3 a/c																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		621.0		0.0		0.0		0.0		0.0		0.0		621.0

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: Apache Aircraft Survivability Improvement Program [MOD 14] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:

FY 2007 Main Supplemental includes 240 Aircraft Survivability Improvement kits, 24 of the 240 are spares. These kits will provide tailored application of insulation, blockers, and a redesigned exhaust system to significantly reduce Apache susceptibility to the battlefield environment with low risk, low cost passive solutions. Installation cost is part of the procurement contract.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Forecast contract award June/07

Installation Schedule

	Pr Yr	FY 2005				FY 2006				FY 2007				FY 2008				FY 2009			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs												12	72	72	60						
Outputs												12	72	72	60						

	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																		216
Outputs																		216

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

Contract Dates:	FY 2006 - FY 2007	FY 2007 - Jun 07	FY 2008 -
Delivery Dates:	FY 2006 - FY 2007	FY 2007 - Jun 07	FY 2008 -

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement							240	52.2											240	52.2
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other (Test & Provisioning)								12.0												12.0
Interim Contractor Support																				
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits							84		132										216	
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	84	0.0	132	0.0	0	0.0	0	0.0	0	0.0	0	0.0	216	0.0
Total Procurement Cost		0.0		0.0		0.0		64.2		0.0		0.0		0.0		0.0		0.0		64.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		RDTE PE 0203744A

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				1237.8						1237.8
Less PY Adv Proc				24.4						24.4
Plus CY Adv Proc				36.6						36.6
Net Proc P1				1250.1						1250.1
Initial Spares				2.0						2.0
Total Proc Cost				1252.1						1252.1
Flyaway U/C										
Weapon System Proc U/C										

Description:

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

Justification:

FY 2007 Base Appropriation	$ 582.0 M
FY 2007 Base Appropriation (Adv Proc)	$ 36.6 M
FY 2007 Title IX (Bridge) Appropriation	$ 511.5 M
FY 2007 Main Supplemental Request	$ 120.0 M
FY 2007 Total	$1,250.1 M

FY 2007 Base Budget will procure 21 aircraft (6 new builds and 15 thru modifications); safety and operation modifications; and trainers. Safety and operation modifications include component recapitalization for all fielded aircraft. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications include conversion of the T55-L-712 to T55-GA-714A Engine; Engine Fire Extinguishers; Engine Filtration System; Low Maintenance Rotor Hub; Aviation Combined Arms Tactical Trainer; Ballistic Protection Systems; and Special Test Sets, Kits, and Outfits in accordance with the Army's Aviation Transformation Plan.

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

FY 2007 Title IX (Bridge) funding provides 17 new build aircraft to replace those lost in the Global War on Terrorism; and the
FY 2007 Main Supplemental of $120M will procure an additional 4 new build aircraft.

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2007

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

Description		Fiscal Years								
OSIP No.	Classification	Prior Yrs.	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TC	Total
Engine Filtration System											
1-93-01-0807	Operational	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	8.5
Engine Upgrade to T55-GA-714A Configuration											
1-96-01-0828	Operational	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0
CH-47F											
0-00-00-0000	Operational	0.0	0.0	0.0	1157.1	0.0	0.0	0.0	0.0	0.0	1157.1
Low Maintenance Rotor Hub											
0-00-00-0000	Operational	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	9.3
Engine Fire Extinguisher (Halon Replacement)											
0-00-00-0000	Operational	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	8.2
Aviation Training Devices (AVCATT, MTD)											
0-00-00-0000		0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	4.2
Transformation Sets, Kits and Outfits											
0-00-00-0000	Safety	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	4.9
CH-47 MISC Mods $5M or Less											
0-00-00-0000	Operational	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	8.2
Totals		0.0	0.0	0.0	1250.4	0.0	0.0	0.0	0.0	0.0	1250.4

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
B-Kit Quantity							21	7.1											21	7.1
A-Kits																				
Logistics								0.9												0.9
PM Support								0.4												0.4
--																				
--																				
--																				
--																				
--																				
--																				
--																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits							17	0.1											17	0.1
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	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	0.1
Total Procurement Cost		0.0		0.0		0.0		8.5		0.0		0.0		0.0		0.0		0.0		8.5

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
New Engines							50	43.1											50	43.1
Engine Fielding Kits																				
Airframe Kits																				
PM Admin Support								2.1												2.1
Logistics								2.8												2.8
--																				
--																				
--																				
--																				
--																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits							29	2.0											29	2.0
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	29	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	29	2.0
Total Procurement Cost		0.0		0.0		0.0		50.0		0.0		0.0		0.0		0.0		0.0		50.0

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION / JUSTIFICATION:

As the Army's only heavy-lift helicopter capable of intra-theater cargo movement of payloads up to 16,000 lb in a high, hot environment, the CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program installs a new digital cockpit, incorporates all new airframe components, and modifies the aircraft to reduce vibration. The CH-47F Common Avionics Architecture System (CAAS) digital cockpit will provide future growth potential to meet the Net-Ready Key Performance requirements and include a digital data bus that permits installation of enhanced communications and navigation equipment for improved situational awareness, mission performance, and survivability. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability. The 17 additional new build CH-47Fs provided by Title IX will replace aircrafts lost during war efforts. Four additional new build aircraft are requested in the FY 2007 Main Supplemental.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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																					
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																		
Outputs																		

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Recurring Production (New Build)							6	180.0											6	180.0
Recurring Production (Suppl New Build)							21	631.5											21	631.5
Recurring Production (Mods)							15	244.3											15	244.3
Other Flyaway								50.8												50.8
Training								16.3												16.3
Other Support								30.6												30.6
Support Equipment								3.6												3.6
--																				
--																				
--																				
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		1157.1		0.0		0.0		0.0		0.0		0.0		1157.1

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED: CH-47D&F

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

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

Installation Schedule

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Low Maintenance Rotor Head								9.0												9.0
Training																				
Logistics																				
PM Support								0.3												0.3
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		9.3		0.0		0.0		0.0		0.0		0.0		9.3

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 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										21	21	21	22								
Outputs										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																		
Outputs																		

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
A-Kit Quantity							85	2.5											85	2.5
Engineering Support																				
Logistics								0.2												0.2
PM Support								0.1												0.1
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits							85	5.4											85	5.4
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	85	5.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	85	5.4
Total Procurement Cost		0.0		0.0		0.0		8.2		0.0		0.0		0.0		0.0		0.0		8.2

INDIVIDUAL MODIFICATION Date: February 2007

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

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

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

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

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
AVCATT Upgrades							8	3.9											8	3.9
MTD Upgrades																				
Engineering Support								0.1												0.1
logistics/Logistics Trainers								0.2												0.2
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		4.2		0.0		0.0		0.0		0.0		0.0		4.2

INDIVIDUAL MODIFICATION Date: February 2007

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

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

DESCRIPTION / JUSTIFICATION:

Type of Improvements - Improved Operational and Safety Capability.

Sets, Kits and Outfits. This funding procures initial start-up tooling and equipment to facilitate unit reorganizations as part of the Army Aviation Transformation.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr	FY 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																		
Outputs																		

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

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

INDIVIDUAL MODIFICATION Date: February 2007

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

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
SKOs							2	4.7											2	4.7
PM Support								0.2												0.2
Installation of Hardware																				
FY2002 & Prior Equip -- Kits																				
FY2003 Equip -- Kits																				
FY2004 Equip -- Kits																				
FY2005 Equip -- Kits																				
FY2006 Equip -- Kits																				
FY2007 Equip -- Kits																				
FY2008 Equip -- Kits																				
FY2009 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		4.9		0.0		0.0		0.0		0.0		0.0		4.9

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE: CH-47 MISC Mods $5M or Less [MOD 8] 0-00-00-0000

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

DESCRIPTION / JUSTIFICATION:

Includes miscellaneous modifications to the CH-47 costing less than $5M. Aircraft Component Markings. Will fill DOD policy requiring marking of all legacy parts. M4 Mounts. The M-4 (replacement for the M-16) Rifle Racks are needed for the Pilot/Co-pilot to store their M-4s. Crashworthy seats. Will provide a seat located aft of heater closet and improves the chances that crewmembers will survive a crash. Ballastic Protection System (BPS). This system will protect protection for the crew, passengers, cargo, and critical aircraft components from small arms fire that may enter the aircraft through the floor. Aft Pylon Workplatform. Will improve the safety and ease of use. The retrofit will consists of larger wheels, retractable outriggers, towing/steering capability, and forklift provisions.

Installation schedules, and methods of implementation are not listed because numerous mods of varied schedules, delivery dates, and methods of implementation are included.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

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

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

INDIVIDUAL MODIFICATION Date: February 2007

MODIFICATION TITLE (cont): CH-47 MISC Mods $5M or Less [MOD 8] 0-00-00-0000

FINANCIAL PLAN: ($ in Millions)

	Prior Yrs.		2005		2006		2007		2008		2009		2010		2011		TC		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
RDT&E																				
Procurement																				
Aircraft Component Markings								1.3												1.3
M4 Mounts								0.2												0.2
Crashworthy Seats								4.0												4.0
Ballistic Protection System								0.6												0.6
Aft Pylon Workplatform								2.1												2.1
Installation of Hardware																				
FY 2004 & Prior Equip -- Kits																				
FY 2005 -- Kits																				
FY 2006 Equip -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		8.2		0.0		0.0		0.0		0.0		0.0		8.2

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				536.0						536.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				536.0						536.0
Initial Spares										
Total Proc Cost				536.0						536.0
Flyaway U/C										
Weapon System Proc U/C										

Description:

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

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

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

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

Justification:

FY 2007 Base Appropriation	$304.4
FY 2007 Title IX (Bridge) Appropriation	$
FY 2007 Main Supplemental Request	$231.6
FY 2007 Total	$536.0

FY 2007 procures nonrecurring engineering and recurring production of the ATIRCM/CMWS A-Kits and B-Kits. FY 2007 supplemental funds will accelerate the procurement of ASE/Laser Warning Equipment which is in direct support of OIF/OEF aviation assets. All systems requested have been identified as necessary for upgrading a/c systems supporting GWOT operations in OIF/OEF and have arisen as a result of the increased OPTEMPO experienced during the 04/06 and 05/07 rotations. This equipment will enhance survivability and increase force protection.

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
A Kit Recurring	B							31015	417	74
A Kit Installation								33503		
A Kit ATIRCM Retrofits										
CMWS Recurring Hardware	B							136517	480	284
ATIRCM Recurring Hardware	B									
IR Suppressor Kits Recurring								42000		
ASE Recurring								11797		
AVR-2 Recurring								88800		
ATIRCM B-Kit Nonrecurring								55656		
A-Kit Integration								36286		
ICS/Spt Eq/Trans/Training								36831		
In House/Matrix Spt								17647		
Program Management								11584		
Spares								19414		
AVR-2 Spares								9955		
CTR SEPM/ECO/SW Spt								4953		
Total:								**535958**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A Kit Recurring										
FY 2007	Various Various	CPFF	Various	Dec 06	May 07	417	74	Yes		
CMWS Recurring Hardware										
FY 2007 Supp	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth	Jun 07	Feb 08	240	302	Yes		
FY 2007	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Dec 06	Aug 07	240	267	Yes		

REMARKS:

FY 06 / 07 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07										Later
							Calendar Year 06												Calendar Year 07										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit Recurring																														
	1	FY 07	A	417	0	417															A					34	34	34	35	35	245
CMWS Recurring Hardware																														
	2	FY 07 Supp	A	240	0	240																					A				240
	2	FY 07	A	240	0	240															A								20	20	200
Total				897		897																				34	34	34	55	55	685
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
1	Various, Various	18	200	800		1	Initial	0	3	3	6	
							Reorder	0	3	3	6	
2	BAE Systems (CMWS), Nashua, NH	48	200	480		2	Initial	0	3	5	8	
							Reorder	0	3	5	8	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08												Fiscal Year 09											Later
							Calendar Year 08												Calendar Year 09											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
A Kit Recurring																														
	1	FY 07	A	417	417	245	35	35	35	35	35	35	35																	0
CMWS Recurring Hardware																														
	2	FY 07 Supp	A	240	240	240					20	20	20	20	20	20	20	20	20	20	20	20									0
	2	FY 07	A	240	240	200	20	20	20	20	20	20	20	20	20	20															0
Total				897	897	685	55	55	55	55	75	75	75	40	40	40	20	20	20	20	20	20									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

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

REMARKS
Production rates are yearly rates.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				61.4						61.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				61.4						61.4
Initial Spares										
Total Proc Cost				61.4						61.4
Flyaway U/C										
Weapon System Proc U/C										

Description:
Provides various types of ground support equipment.

FY 2007 Base Appropriation	$57.4 M
FY 2007 Title IX (Bridge) Appropriation	$ 2.2 M
FY 2007 Main Supplemental Request	$ 1.8 M
FY 2007 Total	$61.4 M

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost	253.3			61.4						314.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	253.3			61.4						314.7
Initial Spares										
Total Proc Cost	253.3			61.4						314.7
Flyaway U/C										
Weapon System Proc U/C										

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

Justification:

FY 2007 Base Appropriation	$57.4 M
FY 2007 Title IX (Bridge) Appropriation	$ 2.2 M
FY 2007 Main Supplemental Request	$ 1.8 M
FY 2007 Total	$61.4 M

FY 2007 (Dollars in Millions)

FY 07 baseline procures ground support equipment which will support and sustain the operational readiness of all Army aviation field units which are operating AH-64, UH-60, CH-47, OH-58D and other Army aircraft. AGSE also provides a means to correct safety-of-flight discrepancies which endanger both life and property. Various pieces of AGSE equipment are being procured in FY07. The Battle Damage Assessment Repair (BDAR) system will provide aviation maintenance organizations an expeditious means for combat damage assessment, deferment, and/or rapid repair for all Army helicopters. Aviation Intermediate Maintenance (AVIM) Shop Set complexes provide a transportable aviation intermediate and limited depot level maintenance capability in force projection or contingency operations. Aviation Ground Power Units (AGPUs) will be capable of meeting Army helicopter servicing requirements into the next decade. The AGPU Modification kits being procured will meet the significantly increased requirement for electrical servicing of the Apache Longbow (AH-64D). The Generic Aircraft Nitrogen Generator (GANG) provides 95.5% pure nitrogen to service/adjust aircraft accumulators, main rotor blades, landing gear struts and tires and also refills nitrogen bottles used at all levels of aviation maintenance. The Non-Destructive Test Equipment (NDTE) is a set of four electronic test instruments that inspect aircraft components and structures for defects, corrosion, or the presence of foreign objects without complete disassembly or removal of component from the aircraft. The 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. The Standard Aircraft Towing System (SATS) will be used to reposition fixed-wing and rotary-wing aircraft as well as AGSE in-and-around hangars and maintenance areas and will standardize the Army's aviation tug fleet along with reducing the logistics footprint through the use of standardized repair parts. The SATS provides a multipurpose support vehicle to complement AGSE modularization concept. This provides a critical maintenance enabler to the warfighter. The DAWS performs aircraft weighing requirements without the use of load cells or jacking of wheeled aircraft and can be used during deployment and redeployment operations. Aviation - Sets, Kits, Outfits and Tools (A-SKOT) provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft. The Aviation Maintenance Fall Protection Platforms provide wrap around phase maintenance stands for the Blackhawk, Apache and Chinook aircraft for the Army National Guard.

The FY 07 Title IX (Bridge) Appropriation procures one AVIM Shop Set Complex which is a critical wartime requirement for the 82d Airborne while supporting Operation Iraqi Freedom (OIF).

The FY 07 Main Supplemental procures one AVIM Shop Set Complex.

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
FY07 Baseline										
Nondestructive Test Equipment (NDTE)								5126		
Aviation Ground Power Unit (AGPU)								9769		
Aviation Vibration Analyzer (AVA)								757		
Battle Damage Assess Repair Kit (BDAR)								8800		
Standard Aircraft Towing System (SATS)								7755		
Avn-Sets, Kits, Outfits, Tools (A-SKOT)								3991		
Avn Interm Maint (AVIM) Shop Set Complex								13241		
Generic Aircraft Nitro Generator (GANG)								1360		
Digital Aircraft Weighing Scales (DAWS)								384		
Avn Maintenance Fall Protection Platform								2900		
Program Management Support								3208		
Fielding								61		
FY07 Baseline Total								**57352**		
FY07 Title IX Bridge Appropriation										
Avn Interm Maint (AVIM) Shop Set Complex								2200		
FY07 Title IX (Bridge) Appropriation								**2200**		
FY07 Main Supplemental Request										
Avn Interm Maint (AVIM) Shop Set Complex								1811		
FY07 Main Supplemental Request Total								**1811**		
Total:								**61363**		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

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

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

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				50.8						50.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				50.8						50.8
Initial Spares										
Total Proc Cost				50.8						50.8
Flyaway U/C										
Weapon System Proc U/C										

Description:

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

Supplemental funding for Air Warrior Portable Oxygen System for aircrews deployed in OIF/OEF is a man portable oxygen system that allows aircrews to operate at altitudes above 10,000 feet mean sea level for extended periods of time. Supplemental funding for Tactical "Go Bag" contains tailored survival equipment capable of carrying up to 72 hours of survival equipment in a modular rucksack style bag. Supplemental funding for Hydration System for aircrews deployed in OIF/OEF provides increased crew survival in a combat survival, evasion, resistance, and escape environment.

Supplemental Funding for Task Force ODIN (Observe, Detect, Identify, Neutralize)-Landmark Program procures Landmark for Task Force (TF) ODIN. TF ODIN is a Congress/SECARMY/VCSA directed, Joint Improvised Explosive Device Defeat Organization (JIEDDO) supported effort that provides Improvised Explosive Device (IED) interdiction capability through persistent aerial

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

surveillance of the OIF Main Supply Routes (MSR).

Justification:

FY 2007 Base Appropriation	$40.6 Million
FY 2007 Title IX (Bridge) Appropriation	$
FY 2007 Main Supplemental Request	$10.2 Million
FY 2007 Total	$50.8 Million

FY 2007 procures and fields the Air Warrior Block 1 basic ensemble, including A Kit and B Kit production and installations, and the Block 2 Electronic Data Manager (EDM) for deploying units and begins procurement of the Block 2 Aircraft Wireless Intercom System (AWIS). FY 2007 Congressional Adds were received for the Cockpit Air Bag System, Vacuum Pack Joint Single Place Life Raft, Army Aviation Pulse-Demand Portable Oxygen System, and the Aircraft Wireless Intercom System.

Supplemental funding procures Portable Oxygen Systems, Tactical "Go Bags", and Hydration Systems for aircrews deployed in OIF/OEF; and the Task Force ODIN-Landmark mission equipment suite.

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Hardware										
-										
Air Warrior Block 1 Ensembles								7887	2800	2.8
AW A Kits								4886	343	14.2
A Kit Installs								2566		
Microclimate Cooling Garment								886	3220	0.3
Microclimate Cooling Units								6828	1105	6.2
-										
-										
Block 2										
Electronic Data Mgr (EDM)								2280	285	8.0
EDM A Kits										
Acft Wireless Intercom Sys (AWIS)								950	54	17.6
AWIS A Kits								297	54	5.5
EDM/AWIS Installs								327		
-										
-										
Total Hardware Costs								**26907**		
Other Costs										
Manuals								60		
New Equipment Training								200		
Initial Spares & Repair Parts								310		
Support Equipment								210		
Systems Test and Evaluation								150		
-										
-										
Total Other Costs								**930**		
Nonrecurring Costs										
Nonrecurring Engineering								500		
Total Nonrecurring Costs								**500**		

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Units	$000	$000	Units	$000	$000	Units	$000
Air Warrior ECP								305		
Systems Integration Engineering								2292		
Project Management Admin								3158		
Total ECP, Sys Int, & Admin Costs								**5755**		
Support Costs										
Fielding								800		
Contract Logistics Support								454		
Total Support Costs								**1254**		
FY 2007 Congressional Adds										
Cockpit Air Bag System Upgrades								970	242	4.0
Vacuum Pack Joint Single Place Life Raft								1406	937	1.5
Pulse-Demand Portable Oxygen System								1940	194	10.0
Aircraft Wireless Intercom System								970	33	29.4
Total FY 2007 Congressional Adds								**5286**		
FY 2007 Supplemental										
Aircrews deployed OIF/OEF										
Portable Oxygen System								5000	500	10.0
Hydration System								500	3500	0.1
Tactical Go Bag								900	3500	0.3
Task Force ODIN-Landmark										
ODIN A-Kits								1421	8	177.6
ODIN Radar Electronic Assembly								1650	6	275.0
Other Costs - FY 2007 Supplemental										
ODIN Manuals								300		
ODIN Items								429		
Total FY 2007 Supplemental								**10200**		
Total:								**50832**		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Air Warrior Block 1 Ensembles										
FY 2007	Simula, Inc. Phoenix, AZ	C/Option	Redstone Arsenal, AL	Jan 07	Apr 07	2800	2.8	Yes		Feb 03
AW A Kits										
FY 2007	Westwind Corporation Huntsville, AL	C/Option	Rock Island, IL	Dec 06	Apr 07	343	14.2	Yes		Dec 02
Microclimate Cooling Garment										
FY 2007	Med Eng, Inc Ogdensburg, NY	C/Option	Redstone Arsenal, AL	Dec 06	Apr 07	3220	0.3	Yes		Jan 05
Microclimate Cooling Units										
FY 2007	Carleton Technologies, Inc. Orchard Park, NY	C/Option	Redstone Arsenal, AL	Dec 06	Jun 07	1105	6.2	Yes		Aug 02
Electronic Data Mgr (EDM)										
FY 2007	Raytheon Technical Services Indianapolis, IN	SS/FP	Redstone Arsenal, AL	Dec 06	Apr 07	285	8.0	Yes		Jan 05
EDM A Kits										
FY 2007	JVYS Huntsville, AL	C/FF	Redstone Arsenal, AL	Dec 06	Apr 07			Yes		Oct 06
Acft Wireless Intercom Sys (AWIS)										
FY 2007	Telephonics Corporation Farmingdale, NJ	C/FP	Farmingdale, NJ	Jan 07	Jun 07	54	17.6	Yes		Feb 06
AWIS A Kits										
FY 2007	Westwind Corporation Huntsville, AL	C/FP	Rock Island, IL	Jan 07	Jun 07	54	5.5	Yes		Oct 06
Cockpit Air Bag System Upgrades										
FY 2007	Simula, Inc. Phoenix, AZ	SS/FP	AATD, Ft. Eustis, VA	Jun 07	Oct 07	242	4.0	No	Jun 07	
Vacuum Pack Joint Single Place Life Raft										
FY 2007	CONAX Florida Corporation St. Petersburg, FL	SS/FP	TBS	May 07	Aug 07	937	1.5	No	May 07	
Pulse-Demand Portable Oxygen System										
FY 2007	TBS TBS	TBS	TBS	Jun 07	Jan 08	194	10.0	No		
Aircraft Wireless Intercom System										

Exhibit P-5a, Budget Procurement History and Planning

Date: February 2007

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

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost $000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2007	Telephonics Corporation Farmingdale, NJ	TBS	Farmingdale, NJ	May 07	Oct 07	33	29.4	Yes		
Portable Oxygen System										
FY 2007	TBS TBS	TBS	TBS	TBS	Sep 07	500	10.0	No		
Hydration System										
FY 2007	TBS TBS	TBS	TBS	TBS	Sep 07	3500	0.1	No		
Tactical Go Bag										
FY 2007	TBS TBS	TBS	TBS	TBS	Sep 07	3500	0.3	No		
ODIN A-Kits										
FY 2007	TBS TBS	TBS	TBS	TBS	Jun 07	8	177.6	No		
ODIN Radar Electronic Assembly										
FY 2007	TBS TBS	TBS	TBS	TBS	Jun 07	6	275.0	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 procured will effect the unit cost in that year.
3. Air Warrior Microclimate Cooling Unit cost varies due to the mix of Apache units purchased each year.

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07												Fiscal Year 08											Later
							Calendar Year 07												Calendar Year 08											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Air Warrior Block 1 Ensembles																														
	6	FY 07	A	2800	0	2800				A			320	520	520	520	520	400												0
AW A Kits																														
	9	FY 07	A	343	0	343			A				24	50	50	55	55	55	54												0
Microclimate Cooling Garment																														
	15	FY 07	A	3220	0	3220			A				300	300	300	300	300	300	300	300	300	300	220								0
Microclimate Cooling Units																														
	10	FY 07	A	1105	0	1105			A						95	130	140	140	150	150	150	150									0
Acft Wireless Intercom Sys (AWIS)																														
	14	FY 07	A	54	0	54				A						20	20	14												0
AWIS A Kits																														
	9	FY 07	A	54	0	54				A						20	20	14												0
Cockpit Air Bag System Upgrades																														
	6	FY 07	A	242	0	242									A				20	20	20	20	20	20	20	20	20	20	21	21	0
Vacuum Pack Joint Single Place Life Raft																														
	16	FY 07	A	937	0	937								A			78	78	78	78	78	78	78	78	78	78	79			0
Pulse-Demand Portable Oxygen System																														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
6	Simula, Inc., Phoenix, AZ	1000	4000	8000			Initial					
							Reorder					
							Initial					
9	Westwind Corporation, Huntsville, AL	190	600	1000			Reorder					

FY 07 / 08 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 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	
	19	FY 07	A	194	0	194									A							48	48	49	49						0
Aircraft Wireless Intercom System																															
	14	FY 07	A	33	0	33								A					16	17											0
Portable Oxygen System																															
Tactical Go Bag																															
Electronic Data Mgr (EDM)																															
Hydration System																															
ODIN A-Kits																															
ODIN Radar Electronic Assembly																															
Total				8982		8982							644	870	965	1045	1133	1001	618	565	548	596	366	147	147	98	98	99	21	21	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
6	Simula, Inc., Phoenix, AZ	1000	4000	8000			Initial					
							Reorder					
							Initial					
9	Westwind Corporation, Huntsville, AL	190	600	1000			Reorder					

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 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	
Air Warrior Block 1 Ensembles																														
	6	FY 07	A	2800	2800																									0
AW A Kits																														
	9	FY 07	A	343	343																									0
Microclimate Cooling Garment																														
	15	FY 07	A	3220	3220																									0
Microclimate Cooling Units																														
	10	FY 07	A	1105	1105																									0
Acft Wireless Intercom Sys (AWIS)																														
	14	FY 07	A	54	54																									0
AWIS A Kits																														
	9	FY 07	A	54	54																									0
Cockpit Air Bag System Upgrades																														
	6	FY 07	A	242	242																									0
Vacuum Pack Joint Single Place Life Raft																														
	16	FY 07	A	937	937																									0
Pulse-Demand Portable Oxygen System																														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
6	Simula, Inc., Phoenix, AZ	1000	4000	8000			Initial					
							Reorder					
							Initial					
9	Westwind Corporation, Huntsville, AL	190	600	1000			Reorder					

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date:
February 2007

COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 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	
	19	FY 07	A	194	194																									0
Aircraft Wireless Intercom System																														
	14	FY 07	A	33	33																									0
Portable Oxygen System																														
Tactical Go Bag																														
Electronic Data Mgr (EDM)																														
Hydration System																														
ODIN A-Kits																														
ODIN Radar Electronic Assembly																														
Total				8982	8982																									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES MIN	1-8-5	MAX	Reached D+	MFR		ADMIN LEAD TIME Prior 1 Oct	After 1 Oct	MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
6	Simula, Inc., Phoenix, AZ	1000	4000	8000			Initial					
							Reorder					
							Initial					
9	Westwind Corporation, Huntsville, AL	190	600	1000			Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2007

Appropriation / Budget Activity / Serial No:	P-1 Item Nomenclature
Aircraft Procurement, Army / 4 / Support equipment and facilities	AIR TRAFFIC CONTROL (AA0050)

Program Elements for Code B Items:	Code:	Other Related Program Elements:
		0604633A/586 Air Traffic Control

	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty										
Gross Cost				100.2						100.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				100.2						100.2
Initial Spares										
Total Proc Cost				100.2						100.2
Flyaway U/C										
Weapon System Proc U/C										

Description:
Tactical Air Traffic Control (ATC) equipment includes Air Traffic Navigation Integration and Coordination System (ATNAVICS), Tactical Airspace Integration System (TAIS), TAIS Airspace Workstation (AWS) and Tactical Terminal Control System (TTCS). ATNAVICS provides all weather instrument flight capabilities to include enroute, terminal, radar precision approach and landing services to all Army, Joint, and allied aircraft. TAIS is a highly mobile, airspace synchronization and deconfliction system providing Army Airspace Command and Control (A2C2) and Air Traffic Services (ATS) capabilities at the Combat Aviation Brigade, Division and Corps. TAIS AWS provides for A2C2 planning and execution at the Brigade Combat Team (BCT) and above. It is the Army's link to the Theater Battle Management Core System (TBMCS) for Joint Airspace Management. TAIS and TAIS AWS provide an automated A2C2 and ATS capability for current requirements and Battle Command migration. ATNAVICS and TAIS serve as effective risk management tools for aviation safety during night, inclement weather, and combat operations. TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. Fixed Base ATC requirements will be met through a vast array of high technology solutions resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the National Airspace System (NAS). This includes upgrading and automating the complete infrastructure, systematically replacing antiquated analog systems (radars and communications switching system) with installation of state of the art digital technology. These new systems include Voice Communication Switching System (VCSS), Department of Defense (DoD) Advanced Automation System (DAAS), Digital Airport Surveillance Radar (DASR), Instrument Landing System (ILS), and Navigational Aids (NAVAIDS). Fixed Base Precision Approach Radar (FBPAR) will be the Army's primary ground controlled precision approach capability to recover aircraft to fixed base facilities, ensuring safe landing in adverse weather conditions.

Justification:

FY 2007 Base Appropriation	$ 86.0 M
FY 2007 Title IX (Bridge) Appropriation	$ 6.5 M
FY 2007 Main Supplemental Request	$ 7.7 M
FY 2007 Total	$100.2 M

FY07 Baseline procures tactical and fixed base ATC systems. Funds for tactical ATC systems provide for production of TAIS, TAIS AWS, ATNAVICS and modification of TTCS. These tactical ATC systems replace previous generation equipment that is obsolete and not economically supportable, ensuring Army ATC and airspace command and control systems are capable of supporting the path ahead to the Future Force. Fixed base ATC systems (DAAS, DASR, VCSS, ILS, NAVAIDS, FBPAR) provide the Army a joint service capability required for the DoD/FAA modernization and

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

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.

FY07 Title IX (Bridge) Approprition procures TAIS T-201 shelter assigned to D/3-58 Avn which was destroyed beyond repair during deployment operations; TAIS AWSs deploying to theater; Environmental Control Unit (ECU) retrofits to help maintain temperature during extreme hot/cold weather conditions providing protection to internal system components of ATNAVICS shelters in theater; TTCS mod kits to upgrade vehicles providing communications for operations of U.S. controlled airspace in theater.

FY07 Main Supplemental procures operations shelter portion of the ATNAVICS assigned to the B/1-58 of the 82nd Airborne Division Combat Aviation Brigade which was destroyed beyond repair during preparations for deployment; two TAIS shelters and one TAIS AWS.

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

ACFT Cost Elements	ID CD	FY 05			FY 06			FY 07		
		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		$000	Each	$000	$000	Each	$000	$000	Each	$000
FY07 Baseline										
Fixed Base Precision Approach Radar								11824		
Voice Communication Switching Syst(VCSS)								976		
DoD Advanced Automation System (DAAS)								9021		
Digital Airport Surveillance Radar(DASR)								11038		
Tactical Airspace Integration Sys (TAIS)								16387		
Air Traffic Navigation and Integration								27194		
TAIS Airspace Workstation (AWS)								856		
ILS/NAVAIDS								2392		
TTCS Upgrades								6316		
FY07 Baseline Total								**86004**		
FY07 Title IX (Bridge) Appropriation										
Tactical Airspace Integration Sys (TAIS)								3000		
TTCS Upgrades								1900		
Air Traffic Navigation and Integration								85		
TAIS Airspace Workstation (AWS)								1515		
FY07 Title IX (Bridge) Appropriation								**6500**		
FY07 Main Supplemental Request										
Air Traffic Navigation and Integration								1598		
Tactical Airspace Integration Sys (TAIS)								6000		
TAIS Airspace Workstation (AWS)								83		
FY07 Main Supplemental Request Total								**7681**		
Total:								**100185**		