DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book FY 2003 Budget Estimate

AIRCRAFT PROCUREMENT, ARMY

Table of Contents - Aircraft Procurement, Army

BLIN	SSN	Nomenclature	Page
1	A11300	UTILITY F/W (MR) AIRCRAFT	1
2	AA0005	UH-60 BLACKHAWK (MYP)	3
3	AA0005	UH-60 BLACKHAWK (MYP) (Adv Proc)	11
4	A06500	HELICOPTER NEW TRAINING	16
5	AZ2000	GUARDRAIL MODS (TIARA)	21
6	AZ2050	ARL MODS (TIARA)	32
8	AA6605	AH-64 MODS	41
9	AA0252	CH-47 CARGO HELICOPTER MODS	55
10	AA0252	CH-47 CARGO HELICOPTER MODS (Adv Proc)	70
12	AA0270	UTILITY/CARGO AIRPLANE MODS	73
13	AA0400	OH-58 MODS	77
14	AA0560	AIRCRAFT LONG RANGE MODS	78
15	AA6670	LONGBOW	79
16	AA6670	LONGBOW (Adv Proc)	91
18	AA0480	UH-60 MODS	95
19	AZ2200	KIOWA WARRIOR	105
20	AA0700	AIRBORNE AVIONICS	109
21	AA0720	ASE MODS (SIRFC)	120
22	AA0701	GATM	121
23	AA0711	GATM Rollup	122
24	AA0950	SPARE PARTS (AIR)	131

Table of Contents - Aircraft Procurement, Army

BLIN	SSN	Nomenclature	<u> </u>
25	AZ3504	AIRCRAFT SURVIVABILITY EQUIPMENT	132
26	AZ3507	ASE INFRARED CM	138
27	AA0710	AIRBORNE COMMAND & CONTROL	142
28	AZ3000	AVIONICS SUPPORT EQUIPMENT	146
29	AZ3100	COMMON GROUND EQUIPMENT	152
30	AZ3110	AIRCREW INTEGRATED SYSTEMS	162
31	AA0050	AIR TRAFFIC CONTROL	165
32	AZ3300	INDUSTRIAL FACILITIES	171
33	A50100	LAUNCHER, 2.75 ROCKET	172
34	AA0705	AIRBORNE COMMUNICATIONS	177

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

EXHIBIT P-1 DATE: 31-Jan-2002 17:56

TABLE OF CONTENTS

	PAGE
SUMMARY BY APPROPRIATION	2
SUMMARY BY ACTIVITY:	
Aircraft Procurement, Army	3
ACTIVITY: 01 Aircraft	4
ACTIVITY: 02 Modifica	ation of aircraft 5
ACTIVITY: 03 Spares	and repair parts 7
ACTIVITY: 04 Support	equipment and facilities 8
NOMENCLATURE INDEX	9
SSN INDEX	11

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

APPROPRIATION SUMMARY	DOLLARS IN THOUSANDS						
APPROPRIATION	FY 2001	FY 2002	FY 2003	PAGE			
Aircraft Procurement, Army	1,541,391	1,970,599	2,061,027	3			
TOTAL PROCUREMENT PROGRAM	1,541,391	1,970,599	2,061,027				

EXHIBIT P-1

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

DATE: 31-Jan-2002 17:56

EXHIBIT P-1

	APPROPRIATION Aircraft Procurement, Army	DOLLARS IN THOUSANDS						
	ACTIVITY	FY 2001	FY 2002	FY 2003	PAGE			
01	Aircraft	242,581	269,534	180,220	4			
02	Modification of aircraft	1,161,628	1,487,730	1,692,308	5			
03	Spares and repair parts	5,028	7,282	7,697	7			
04	Support equipment and facilities	132,154	206,053	180,802	8			
	APPROPRIATION TOTALS	1,541,391	1,970,599	2,061,027				

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

APPROPRIATION Aircraft Procurement, Army ACTIVITY 01 Aircraft DOLLARS IN THOUSANDS

			FY 2	2001	FY 2002		FY 2003	
LINE NO	ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST
	FIXED WING							
1	UTILITY F/W (MR) AIRCRAFT (A11300)		1	7,530	1	45,000		
	SUB-ACTIVITY TOTAL		_	7,530	_	45,000		
	ROTARY							
2	UH-60 BLACKHAWK (MYP) (AA0005) Less: Advance Procurement (PY)		18	(195,953) (-16,554)	12	(204,500) (-31,872)	12	(176,408) (-23,047)
3	UH-60 BLACKHAWK (MYP) (AA0005)		_	179,399	_	172,628	_	153,361
ŭ	Advance Procurement (CY)			31,872		26,906		26,859
4	HELICOPTER NEW TRAINING (A06500)		17	23,780	15	25,000		
	SUB-ACTIVITY TOTAL		_	235,051	_	224,534	_	180,220
	ACTIVITY TOTAL		_	242,581	_	269,534	_	180,220

EXHIBIT P-1

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 02 Modification of aircraft **DOLLARS IN THOUSANDS** FY 2001 FY 2002 FY 2003 LINE NO ITEM NOMENCLATURE ID QTY COST QTY COST QTY COST MODIFICATIONS OF AIRCRAFT 5 GUARDRAIL MODS (TIARA) (AZ2000) 22.419 13.766 9.229 6 6,493 ARL MODS (TIARA) (AZ2050) Α 12.238 20.873 7 1 AH1F MODS (AA0150) Α 8 AH-64 MODS (AA6605) 45,414 38,209 93,622 9 CH-47 CARGO HELICOPTER MODS (AA0252) (99,991)(251,453)(399,783)Less: Advance Procurement (PY) (-17)(-17,722)251.436 99.991 382,061 10 CH-47 CARGO HELICOPTER MODS (AA0252) 17 17,722 21,185 Advance Procurement (CY) 82,261 11 CH-47 ICH (AA0254) 12 UTILITY/CARGO AIRPLANE MODS (AA0270) 10.798 15.984 16.954 13 OH-58 MODS (AA0400) 876 460 460 851 748 744 14 AIRCRAFT LONG RANGE MODS (AA0560) 15 LONGBOW (AA6670) (748,028)(929,317)(892,007) Less: Advance Procurement (PY) (-37,547)(-44,754)(-26,226)710.481 884.563 865,781 LONGBOW (AA6670) 16 44,754 26.226 29.713 Advance Procurement (CY) 17 UH-1 MODS (AB0602) 258 68,010 18 UH-60 MODS (AA0480) 25,405 41,863 19 KIOWA WARRIOR (AZ2200) 41,531 42.308 42,406 20 52.362 77.883 97.003 AIRBORNE AVIONICS (AA0700)

*** UNCLASSIFIED ***

EXHIBIT P-1 Page 5

EXHIBIT P-1

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 02 Modification of aircraft **DOLLARS IN THOUSANDS** FY 2001 FY 2002 FY 2003 LINE NO ITEM NOMENCLATURE ID QTY COST QTY COST QTY COST 21 ASE MODS (SIRFC) (AA0720) 5,046 22 GATM (AA0701) 12,670 GATM Rollup (AA0711) 23 411 38,177 525 70,414 SUB-ACTIVITY TOTAL 1,161,628 1,487,730 1,692,308

1,161,628

ACTIVITY TOTAL

EXHIBIT P-1

1,692,308

1,487,730

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

APPROPRIATION Aircraft Procurement, Army **ACTIVITY** 03 Spares and repair parts **DOLLARS IN THOUSANDS** FY 2001 FY 2002 FY 2003 ID LINE NO ITEM NOMENCLATURE QTY COST QTY COST QTY COST SPARES AND REPAIR PARTS SPARE PARTS (AIR) (AA0950) 24 5,028 7,282 7,697 SUB-ACTIVITY TOTAL 5,028 7,282 7,697 **ACTIVITY TOTAL** 5,028 7,282 7,697

EXHIBIT P-1

DEPARTMENT OF THE ARMY

FY 2003 PROCUREMENT PROGRAM (WORKSETS INCLUDED)

President's Budget 2003

ID

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

LINE NO

25

26

27

28

29

30

31

32

33

34

35

ITEM NOMENCLATURE

GROUND SUPPORT AVIONICS

ASE INFRARED CM (AZ3507)

OTHER SUPPORT

AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)

SUB-ACTIVITY TOTAL

AIRBORNE COMMAND & CONTROL (AA0710)

AVIONICS SUPPORT EQUIPMENT (AZ3000)

COMMON GROUND EQUIPMENT (AZ3100)

AIRCREW INTEGRATED SYSTEMS (AZ3110)

AIR TRAFFIC CONTROL (AA0050)

INDUSTRIAL FACILITIES (AZ3300)

LAUNCHER, 2.75 ROCKET (A50100)

ACTIVITY TOTAL

APPROPRIATION TOTAL

AIRBORNE COMMUNICATIONS (AA0705)

CLOSED ACCOUNT ADJUSTMENT (AZ9999)

SUB-ACTIVITY TOTAL

DOLLARS IN THOUSANDS FY 2001 FY 2002 FY 2003 QTY COST QTY COST QTY COST 9,908 37,545 43,389 9,908 80,934 7 27,738 9,908 12,790 7,494 11.817 18,975 18,091 10,494 10,179 15,215 73,464 57,892 64,410 1,406 702 704 4,924 2,677 14.742 19.657 44.473 415 122,246 125,119 180,802

206,053

1,970,599

132,154

1,541,391

180,802

2,061,027

EXHIBIT P-1

NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
AA6605	8	5	AH-64 MODS (AA6605)
AA0150	7	5	AH1F MODS (AA0150)
AA0050	31	8	AIR TRAFFIC CONTROL (AA0050)
AA0700	20	5	AIRBORNE AVIONICS (AA0700)
AA0710	27	8	AIRBORNE COMMAND & CONTROL (AA0710)
AA0705	34	8	AIRBORNE COMMUNICATIONS (AA0705)
AA0560	14	5	AIRCRAFT LONG RANGE MODS (AA0560)
AZ3504	25	8	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)
AZ3110	30	8	AIRCREW INTEGRATED SYSTEMS (AZ3110)
AZ2050	6	5	ARL MODS (TIARA) (AZ2050)
AZ3507	26	8	ASE INFRARED CM (AZ3507)
AA0720	21	6	ASE MODS (SIRFC) (AA0720)
AZ3000	28	8	AVIONICS SUPPORT EQUIPMENT (AZ3000)
AA0252	9	5	CH-47 CARGO HELICOPTER MODS (AA0252)
AA0252	10	5	CH-47 CARGO HELICOPTER MODS (AA0252)
AA0254	11	5	CH-47 ICH (AA0254)
AZ9999	35	8	CLOSED ACCOUNT ADJUSTMENT (AZ9999)
AZ3100	29	8	COMMON GROUND EQUIPMENT (AZ3100)
AA0701	22	6	GATM (AA0701)
AA0711	23	6	GATM Rollup (AA0711)
AZ2000	5	5	GUARDRAIL MODS (TIARA) (AZ2000)
A06500	4	4	HELICOPTER NEW TRAINING (A06500)
AZ3300	32	8	INDUSTRIAL FACILITIES (AZ3300)
AZ2200	19	5	KIOWA WARRIOR (AZ2200)
A50100	33	8	LAUNCHER, 2.75 ROCKET (A50100)
AA0005	2	4	Less: Advance Procurement (PY)
AA0252	9	5	Less: Advance Procurement (PY)
AA6670	15	5	Less: Advance Procurement (PY)
AA6670	15	5	LONGBOW (AA6670)
AA6670	16	5	LONGBOW (AA6670)
AA0400	13	5	OH-58 MODS (AA0400)
AA0950	24	7	SPARE PARTS (AIR) (AA0950)
AB0602	17	5	UH-1 MODS (AB0602)
AA0005	2	4	UH-60 BLACKHAWK (MYP) (AA0005)
AA0005	3	4	UH-60 BLACKHAWK (MYP) (AA0005)
AA0480	18	5	UH-60 MODS (AA0480)

NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
A11300	1	4	UTILITY F/W (MR) AIRCRAFT (A11300)
AA0270	12	5	UTILITY/CARGO AIRPLANE MODS (AA0270)

*** UNCLASSIFIED *** SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
A06500	4	4	HELICOPTER NEW TRAINING (A06500)
A11300	1	4	UTILITY F/W (MR) AIRCRAFT (A11300)
A50100	33	8	LAUNCHER, 2.75 ROCKET (A50100)
AA0005	2	4	UH-60 BLACKHAWK (MYP) (AA0005)
AA0005	2	4	Less: Advance Procurement (PY)
AA0005	3	4	UH-60 BLACKHAWK (MYP) (AA0005)
AA0050	31	8	AIR TRAFFIC CONTROL (AA0050)
AA0150	7	5	AH1F MODS (AA0150)
AA0252	9	5	CH-47 CARGO HELICOPTER MODS (AA0252)
AA0252	9	5	Less: Advance Procurement (PY)
AA0252	10	5	CH-47 CARGO HELICOPTER MODS (AA0252)
AA0254	11	5	CH-47 ICH (AA0254)
AA0270	12	5	UTILITY/CARGO AIRPLANE MODS (AA0270)
AA0400	13	5	OH-58 MODS (AA0400)
AA0480	18	5	UH-60 MODS (AA0480)
AA0560	14	5	AIRCRAFT LONG RANGE MODS (AA0560)
AA0700	20	5	AIRBORNE AVIONICS (AA0700)
AA0701	22	6	GATM (AA0701)
AA0705	34	8	AIRBORNE COMMUNICATIONS (AA0705)
AA0710	27	8	AIRBORNE COMMAND & CONTROL (AA0710)
AA0711	23	6	GATM Rollup (AA0711)
AA0720	21	6	ASE MODS (SIRFC) (AA0720)
AA0950	24	7	SPARE PARTS (AIR) (AA0950)
AA6605	8	5	AH-64 MODS (AA6605)
AA6670	15	5	LONGBOW (AA6670)
AA6670	15	5	Less: Advance Procurement (PY)
AA6670	16	5	LONGBOW (AA6670)
AB0602	17	5	UH-1 MODS (AB0602)
AZ2000	5	5	GUARDRAIL MODS (TIARA) (AZ2000)
AZ2050	6	5	ARL MODS (TIARA) (AZ2050)
AZ2200	19	5	KIOWA WARRIOR (AZ2200)
AZ3000	28	8	AVIONICS SUPPORT EQUIPMENT (AZ3000)
AZ3100	29	8	COMMON GROUND EQUIPMENT (AZ3100)
AZ3110	30	8	AIRCREW INTEGRATED SYSTEMS (AZ3110)
AZ3300	32	8	INDUSTRIAL FACILITIES (AZ3300)
AZ3504	25	8	AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504)

*** UNCLASSIFIED *** SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
AZ3507	26	8	ASE INFRARED CM (AZ3507)
AZ9999	35	8	CLOSED ACCOUNT ADJUSTMENT (AZ9999)

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2000 & Prior	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	To Complete Total	<u>Program</u>	
GUARDRAIL MODS (TIARA) (AZ2000)											
System 2 Block Upgrade	263.1									263.1	
GUARDRAIL Information Node (GRIFN)		17.6	5.0		5.0	5.0				33.6	
System 4 Remote Relay		4.8								4.8	
SIGINT Transition Program (STP)			5.1	1.4	9.1	8.8				24.5	
Interference Cancellation Sys/Radio Relay Sys			3.7	0.3						4.0	
JTT Upgrades				4.3	0.7					5.0	
Airborne Tactical Common Data Link				3.2	3.2	2.2				8.6	
DMS Upgrade					4.4					4.4	
Total	263.1	22.4	13.8	9.2	22.4	16.0	1.1			348.0	
ARL MODS (TIARA) (AZ2050)											
Superhawk Software Integ Trouble Rpts	2.0	1.3								3.3	
Upgrade to IMINT Suite	3.8	0.5								4.3	
COMINT/ESM Installation on ARL-M4		2.2								2.2	
Upgrade to DAMA Compliant Radio		2.5	3.4	1.8						7.7	
Airspace 2000			3.2							3.2	
Upgrade ARL-M4 & M5 IMINT Suites			3.3							3.3	
COMINT Upgrades			2.3	4.1	3.9					10.3	
Radar Replacement				7.1	5.1					12.2	
Aircraft Standardization				1.1	1.1					2.2	
Aircraft Survivability Equipment (ASE)				6.1	5.7					11.8	
Joint Tactical Terminal (JTT) Integration				0.7						0.7	
Total	5.8	6.5	12.2	20.9	15.8					61.2	
AH-64 MODS (AA6605)											
Backup Control System (BUCS)	19.7			5.4	6.3	6.2	3.7	3.4	3.6	48.3	
Airframe Modifications	25.2	8.6	2.0	1.8						37.6	

Missile Procurement, Army Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2000 & Prior	<u>2001</u>	2002	<u>2003</u>	2004	<u>2005</u>	<u>2006</u>	<u>2007</u>	To Complete To	tal Program
TADS/PNVS Upgrades	34.9	15.7	14.5	11.9	15.0	13.6	13.4	10.1	22.0	151.1
MISC Mods and R&S Mods \$5M or less (No P3a set)	532.6	21.1	21.7	24.7	19.1	21.8			65.2	
Combat Mission Simulator (CMS)	10.0			30.0						40.0
National Guard Fielding				15.8	24.5	24.8				65.1
Modernized TADS/PNVS (M-TADS)				4.0	51.2	17.1	46.7	87.1	86.0	292.0
Total	622.4	45.4	38.2	93.6	116.1	83.5	170.4	100.6	176.8	634.2
CH-47 CARGO HELICOPTER MODS (AA0252)										
Total Ownership Cost Reduction		1.7	1.2	1.7						
Improved Battery		2.5	0.3	0.4						
Engine Filtration System		0.2	4.1	8.0	7.1	6.5	6.8	1.3	1.6	35.7
Extended Range Fuel System	19.9	8.2	19.4	17.6	15.8					81.0
Engine Upgrade to T55-GA-714A Configuration	263.9	99.3	124.1	140.8	140.5	171.3	153.8	64.7	5.7	1164.1
APU Upgrade	6.0	3.5	1.1							
Installation of Modifications Kits Various	30.2	0.8	0.9	0.9						
CH-47D Flight Simulator Upgrade			5.4	5.0	10.2					20.6
CH-47F		66.0	95.0	178.4	284.2	303.9	345.2	344.9	3812.3	5429.9
Component Recapitalization				25.6	51.9	43.8	68.5	49.7	775.4	1014.8
Low Maintenance Rotor Hub				3.7	12.3	9.6	13.0	11.4	12.6	
Engine Fire Extinguisher (Halon Replacement)							8.2	8.4	26.9	
Total	320.0	182.3	251.4	382.1	522.1	535.1	595.4	480.5	4634.5	7746.2
CH-47 ICH (AA0254)										
Improved Cargo Helicopter		53.4	126.4	152.2	213.6	237.6			1541.2	527.6
Total		53.4	126.4	152.2	213.6	237.6	33.7		1541.2	527.6
UTILITY/CARGO AIRPLANE MODS (AA0270)										
Avionics System Cockpit Upgrade	47.2	11.7	16.1	17.0	10.7	10.7	14.3	10.4		138.2

Missile Procurement, Army Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2000 & Prior	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	To Complete Tot	al Program
Total	47.2	11.7	16.1	17.0	10.7	10.7	14.3	10.4		138.2
LONGBOW APACHE MODS (AA6607)										
Longbow Apache Mods	2064.3	593.1	773.6	840.7	724.7	460.9	438.8	347.9	1943.2	8187.3
Total	2064.3	593.1	773.6	840.7	724.7	460.9	438.8	347.9	1943.2	8187.3
UH-60 BLACK HAWK MODS (AA0492)										
Crashworthy External Fuel System (CEFS)		3.0	21.3	10.3	12.5	14.2	19.6	18.9	41.5	141.2
Fire Hawk Kits	2.0	3.0								
Sealed Lead Acid Battery (SLAB)	7.9	2.3	5.0	1.1						16.3
UH-60Q Medical Equipment Package (MEP)	1.0		30.0	29.0	30.1	57.9				148.0
Advanced Helicopter Transmission Lubricant				1.5	0.8	1.2				3.5
NVG Lighting Lower Console	10.2	0.5								
Kapton Wiring Replacement		2.1								
De-Icing System Upgrade Program			1.3							
UH-60M Selected Upgrade					136.6	166.3	388.8	364.6	11520.2	
UH-60M Medical Equipment Package (MEP)							52.8	53.2	1483.6	
Search and Rescue (SAR) MOD	9.9	14.5	10.4							
Total	31.0	25.4	68.0	41.9	180.0	239.6	461.2	436.7	13045.3	309.0
KIOWA WARRIOR (AZ2200)										
Safety Enhancement Program (SEP)	180.2	40.4	42.4	42.4	42.0	34.6	23.1	24.8	4.5	434.3
Safety Enhancement Program - Weight Reduction							0.0	31.7	84.9	41.3
Crew Station Mission Equipment Trainer (CSMET)	17.2	1.3								
Total	197.4	41.6	42.4	42.4	42.0	34.6	23.1	56.4	89.5	475.6
AIRBORNE AVIONICS (AA0700)										
Doppler GPS Navigation System (DGNS) (AN/ASN-128B)	91.8	0.8								

Missile Procurement, Army Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	2000 & Prior	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	To Complete To	otal Program
Improved Data Modem (IDM)	80.6	32.8	42.6	59.4	35.8	30.0	29.9	33.2	528.6	872.9
Aviation Mission Planning System (AMPS)	48.7	13.5	10.4	19.8	28.1	16.4			159.2	310.6
Embedded GPS Inertial Navigation System (EGI) P3I	4.2	3.7	14.7	14.7	11.4	8.5	8.1	5.8	105.4	176.4
DGNS (AN/ASN-128B) P3I		1.7	10.3	3.1	5.3	8.6	7.5	4.0	89.8	130.4
Advanced Avionics Technology Insertion									372.2	
Joint Precision Approach & Landing System (JPALS)									373.1	
Total	225.3	52.4	77.9	97.0	80.5	63.5	60.1	43.1	1628.3	1490.3
ASE MODS (SIRFC) (AA0720)										
AN/ALQ-211 Suite of Integrated Radio Frequency CMS	141.0	5.0								146.0
Laser Detecting Set AN/AVR-2A(V)	30.6									30.6
Advanced Threat Infrared Countermeasures (ATIRCM)	20.2									20.2
Total	191.9	5.0								196.9
GATM (AA0701)										
Global Air Traffic Management - RW	2.9	3.2								6.0
Global Air Traffic Management - FW	7.0	6.8								13.8
Total	9.9	10.0								19.9
GATM - Fixed Wing Aircraft (AA0703)										
Global Air Traffic Management - FW			19.2	43.3	33.5	43.1				148.2
Total			19.2	43.3	33.5	43.1	9.1			148.2
ASE MODS (ATIRCM) (AA0722)										
Advanced Threat Infrared Countermeasures	4.9									4.9
Total	4.9									4.9
Grand Total	3983.1	1049.2	1439.3	1740.2	1961.4	1724.6	1807.2	1475.6	23058.8	20287.4

Exh	Proc Qty 17 5 3 1 1 1 40 68 Gross Cost 73.4 26.8 17.2 7.5 45.0 7.4 390.0 567.3 Less PY Adv Proc 9														
								IR) AIRCRAF	Γ (A11300)						
Program Elements for Coo	de B Items:			Code:	Other Relate	ed Program Ele	ements:								
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog			
Proc Qty	17	5	3	1	1		1				40	68			
Gross Cost	73.4	26.8	17.2	7.5	45.0		7.4				390.0	567.3			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	73.4	26.8	17.2	7.5	45.0		7.4				390.0	567.3			
Initial Spares															
Total Proc Cost	73.4	26.8	17.2	7.5	45.0		7.4				390.0	567.3			
Flyaway U/C															
Wpn Sys Proc U/C		5.4	5.7	7.5			7.4				9.8				

Description:

The Cessna UC-35 (Medium Range) aircraft is a fully integrated, two-pilot crew, 6-8 passenger capability, multi-engine system with worldwide self-deployability. It has advanced technology, while being a non-developmental, fixed wing aircraft system. The UC-35 aircraft is being fielded using the concept of Life Cycle Contractor Support.

Justification:

There is no FY 2003 budget request for this item.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu				P-1 Line I UTILITY F	tem Nomenclatur /W (MR) AIRCRAF	e: T (A11300)		Weapon System	Туре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Aircraft Flyaway Costs Airframes/CFE Avionics Subtotal Flyaway Costs Total Flyaway Support Cost Peculiar Training Equipment Publications Tech/Data Other (specify) Net/ICS/Mfxsupt Subtotal Support Costs Gross P-1 End Cost Net P-1 Full Funding Cost Initial Spares		\$000	Each	\$000	7000 334 7334 7334 1 195 196	Each 1	\$000	\$000 43500 1498 44998 44998 2	Each 1	\$000	\$000	Each	\$000
Total					7530			45000					

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	te:	F	ebruary 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /1/						P-1 Item Nom UH-		AWK (MYP) (AA0005)			
Program Elements for Code	e B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		29	19	18	12	12	10	8	28	22		158
Gross Cost	7962.2	294.7	199.3	196.0	204.5	176.4	145.2	128.2	322.7	395.5	34.5	10059.2
Less PY Adv Proc	2348.4	23.2		16.6	31.9	23.0	23.1	19.9	29.9	52.2	34.5	2602.5
Plus CY Adv Proc	2371.6		16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5		2602.5
Net Proc (P-1)	7985.5	271.5	215.8	211.3	199.5	180.2	145.1	127.5	345.0	377.8		10059.2
Initial Spares	417.8	3.5										421.3
Total Proc Cost	8403.3	275.0	215.8	211.3	199.5	180.2	145.1	127.5	345.0	377.8		10480.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description: UH-60 BLACK HAWK and associated equipment.

Exh	Number Code Code													
Appropriation/Budget Acti Aircraft Procurement, Army /1								IAWK (MYP) ((A05002)					
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:							
Proc Qty	1480	29	19	18	12	10	8	28	22		1638			
Gross Cost	7922.8	294.7	199.3	196.0	204.5	176.4	145.2	128.2	322.7	395.5	34.5	10019.8		
Less PY Adv Proc	2348.4	23.2	0.0	16.6	31.9	23.0	23.1	19.9	29.9	52.2	34.5	2602.5		
Plus CY Adv Proc	2371.6	0.0	16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5		2602.5		
Net Proc (P-1)	7946.0	271.5	215.8	211.3	199.5	180.2	145.1	127.5	345.0	377.8		10019.8		
Initial Spares	417.8	3.5										421.3		
Total Proc Cost	8363.8	275.0	215.8	211.3	199.5	180.2	145.1	127.5	345.0	377.8		10441.1		
Flyaway U/C		8.6	7.8	8.0	10.5	10.7	11.3	12.3	10.4	15.8				
Wpn Sys Proc U/C		10.3	10.5	10.9	17.0	14.7	14.5	16.0	11.5	18.0				

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. This effort supports the Legacy to Objective transition path of the Transformation Campaign Plan.

Justification:

FY03 funds are required for the procurement of aircraft, continuation of fielding, and to provide for Program Management Office operations. A new multiservice, multiyear contract begins in FY 2002.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/E Aircraft Procu					tem Nomenclature ACK HAWK (MYP)			Weapon System	Гуре:	Date: Februa	nry 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Aircraft Flyaway Costs Airframes/CFE Engines/Accessories Avionics (GFE) Other GFE Armament					118845 6562 11560 58	18 10	6603 657	96903 15788 5097 2605	12 24		100549 16153 5188 2642	24	8380 674
ECO (All FLYAWAY Components) Other Costs (Mission Equipment)					6407 629			2423 3611			2556 896		
Subtotal Recurring FLYAWAY Costs					144061			126427			127984		
Non-Recurring Costs Tooling Equipment Other Nonrecurring Cost Total FLYAWAY Support Cost Airframe PGSE					17256 161317			9649 136076			127984		
Engine PGSE Peculiar Training Equipment Publications/Tech Data Engineering Change Orders PM Administration Fielding					5451 23952 5233			36967 1730 24618 5109			16633 3121 25051 3619		
Subtotal Support Cost					34636			68424			48424		
Gross P-1 End Item Cost Less: Prior Year Adv Proc					195953 16554			204500 31872			176408 23047		
Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc Initial Spares					179399 31872			172628 26906			153361 26859		
Total					211271			199534			180220		

Contractor and Location	Weapon Syste	em Type:		P-1 Line It	em Nomenc	lature:			
Contractor and Location	Contract			UH-60 BLACK	HAWK (MYP)				
	Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 99	Jun 00	9	6636	Yes		
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Mar 00	Jul 00	5	5730	Yes		
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jul 00	Jan 01	5	10610	Yes		
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Nov 00	Dec 01	6	5863	Yes		
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	DEC 00	APR 02	7	6235	Yes		
Stratford CT	SSM/FP	AMCOM	APR 01	JUN 02	5	8005	Yes		
Stratford CT	SSM/FP	AMCOM	Jun 02	Jul 02	12	8076	Yes		Sep 0
Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Dec 02	Jul 03	12	8380	Yes		Sep 0
	Stratford CT Sikorsky Aircraft Stratford CT	Stratford CT Sikorsky Aircraft Stratford CT Sikorsky Aircraft Sikorsky Aircraft Stratford CT Sikorsky Aircraft SSM/FP	Stratford CT Sikorsky Aircraft Stratford CT Sikorsky Aircraft Sikorsky Aircraft Stratford CT Sikorsky Aircraft Sikorsky Aircraft Stratford CT Sikorsky Aircraft SSM/FP AMCOM	Stratford CT Sikorsky Aircraft Stratford CT Sikorsky Aircraft	Stratford CT Sikorsky Aircraft Stratford CT Sikorsky Aircraft Sikorsky Aircraft Stratford CT Sikorsky Aircraft SSM/FP AMCOM DEC 00 APR 02 Stratford CT Sikorsky Aircraft SSM/FP AMCOM APR 01 JUN 02 Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jun 02 Jul 02 Stratford CT Sikorsky Aircraft SSM/FP AMCOM Dec 02 Jul 03	Stratford CT Sikorsky Aircraft SSM/FP AMCOM Nov 00 Dec 01 6 STRATFORD STRATFORD STRATFORD STRATFORD SIKORSKY Aircraft SSM/FP AMCOM DEC 00 APR 02 7 SIKORSKY Aircraft SSM/FP AMCOM APR 01 JUN 02 5 STRATFORD STRATFORD STRATFORD SIKORSKY Aircraft SSM/FP AMCOM DEC 00 APR 02 7 SIKORSKY Aircraft SSM/FP AMCOM DEC 00 Jul 02 12 STRATFORD	Stratford CT Sikorsky Aircraft SSM/FP AMCOM Mar 00 Jul 00 5 5730 Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jul 00 Jan 01 5 10610 Stratford CT Sikorsky Aircraft SSM/FP AMCOM Nov 00 Dec 01 6 5863 Stratford CT Sikorsky Aircraft SSM/FP AMCOM DEC 00 APR 02 7 6235 Stratford CT Sikorsky Aircraft SSM/FP AMCOM APR 01 JUN 02 5 8005 Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jun 02 Jul 02 12 8076 Sikorsky Aircraft SSM/FP AMCOM Dec 02 Jul 03 12 8380	Stratford CT Sikorsky Aircraft SSM/FP AMCOM Mar 00 Jul 00 5 5730 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jul 00 Jan 01 5 10610 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Nov 00 Dec 01 6 5863 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM DEC 00 APR 02 7 6235 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM APR 01 JUN 02 5 8005 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jun 02 Jul 02 12 8076 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Dec 02 Jul 03 12 8380 Yes	Stratford CT Sikorsky Aircraft SSM/FP AMCOM Mar 00 Jul 00 5 5730 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jul 00 Jan 01 5 10610 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Nov 00 Dec 01 6 5863 Yes Sikorsky Aircraft SSM/FP AMCOM DEC 00 APR 02 7 6235 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM APR 01 JUN 02 5 8005 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Jun 02 Jul 02 12 8076 Yes Stratford CT Sikorsky Aircraft SSM/FP AMCOM Dec 02 Jul 03 12 8380 Yes

REMARKS: December 1999 and November 2000 Airframe awards for FY00 and FY01 respectively include both UH-60L hardware as well as the associated System/Project Management; March 2000 and December 2000 airframe contract awards reflect the exercise of aircraft options and include no System/Project Management. July 2000 and April 2001 contract awards involve both the exercising of options as well as the procurement of contract in line production modifications to convert to Congressionally directed HH-60L MEDEVAC and Fire Fighting configurations.

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Exh	ibit P-40	, Budge	Da	Date: February 2002										
Appropriation/Budget Act Aircraft Procurement, Army /	P-1 Item Nomenclature UH-60 BLACKHAWK (MYP)(Adv Proc) (AA0005)													
Program Elements for Code B Items:					Other Relate	Other Related Program Elements:								
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog		
Proc Qty														
Gross Cost														
Less PY Adv Proc														
Plus CY Adv Proc	2371.6	0.0	16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5		2602.5		
Net Proc (P-1)	2371.6		16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5		2602.5		
Initial Spares														
Total Proc Cost	2371.6		16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5		2602.5		
Flyaway U/C														
Wpn Sys Proc U/C														

Description:

The Advance Procurement for the UH-60 BLACK HAWK contains funding for the airframe and engine contracts as well as funding for Government Furnished Equipment(GFE) to support the UH-60 aircraft and mission kit production. GFE includes such items as the Auxiliary Power Unit (APU), Hover Infrared Suppressor System (HIRSS), Armored Crew Seats, and other miscellaneous equipment. This effort supports the Legacy to objective transition path of the Transformation Campaign Plan.

Justification:

Funding in FY03 is for both EOQ and long lead items on the proposed FY02-06 multiyear contract. Advance procurement is also required for the procurement of GFE items, including the T700-GE-700 engine, APU, Crew Seats, and HIRSS, since their leadtime exceeds the leadtime of the aircraft (with long lead funding).

Advance Procurement Requirem	is-Fundir	ng (P10A)	First System Award Date:			First System	Completion Da	ite:	Date: February 2002							
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /1/Aircraft	P-1 Line Item Nomenclature / Weapon System UH-60 BLACKHAWK (MYP)															
							(\$ in Millions)									
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total		
End Item Quantity CFE Airframe	18	6	1480 1459.2	29	19 16.3	18 17.0	12 14.0	12	10 13.1	6.4	28 27.5			1638 1590.9		
Engines Avionics Auxiliary Power Unit	14 15	3 3 3	652.1		0.3	12.9 0.8	14.0 10.5 1.0	15.5 9.4 0.8	8.2 0.7	9.8 1.2	19.9			733.2 124.6 50.1		
Armored Crew Seat Hover Infrared Suppressor Elastomeric Bearings Miscellaneous	12 14 10	3 3 3 3	21.1 28.9 1.5 41.6			0.5 0.7	0.6 0.8	0.5 0.7	0.4 0.6	0.7 1.0	1.2 1.6	0.6 0.8		25.7 35.1 1.5 41.6		
Total Advance Procurement			2371.6	0.0	16.6	31.9	26.9	26.9	23.0	19.1	52.2	34.5	0.0	2602.5		

Leadtime shown is the manufacturing (production) leadtime, i e the time from contract award to first delivery. 'When required' reflects the number of months after funding is received (December)that delivery is required. GFE delivery to prime contractor is required at least three months prior to end item delivery. CFE airframe is termination liability funding of both long leadtime as well Econonomic Order Quantity (EOQ) items. Engines are fully funded. Due to low production rates, avionics items are now being requisitioned from stock. Avionics and miscellaneous items are for numerous items with differing lead times.

Advance Procurement Requirements Analysis-Funding (P10B) February 2002 Appropriation/Budget Activity/Serial No: P-1 Line Item Nomenclature / Weapon System UH-60 BLACKHAWK (MYP) Aircraft Procurement, Army /1/Aircraft (\$ in Millions) Quantity 2002 2003 PLT Per Contract Total Contract Total Unit Assembly Cost **Forcast Date Cost Request Forcast Date Cost Request** (mos) Qty Qty CFE Airframe 18 12 Jun 02 14.0 10 Dec 02 15.5 14 2 Dec 01 10.5 Dec 02 Engines 0.7 14 9.4 16 15 12 Mar 02 10 Dec 02 Auxiliary Power Unit 0.1 1.0 0.8 Armored Crew Seat 12 2 0.0 24 Mar 02 0.6 20 Dec 02 0.5 Hover Infrared Suppressor 14 0.1 12 Mar 02 0.8 10 Dec 02 0.7

Airframe will be procured on an FY02 through FY06 joint service multiyear contract. The funding requested is for the termination liability associated with the procurement of parts in Economic Order Quantities (EOQ). Engine is being procured on an Indefinite Delivery, Indefinite Quantity (IDIQ) contract with option prices established by the calendar year of delivery. Advance procurement funding is required for GFE, since engines, APUs, Crew Seats, and HIRSS are required at the contractor's facility three months after funding becomes available. The production leadtime of these items, coupled with the projected contract award date, necessitates the use of advance procurement funding. Unit price shown is the anticipated price of the item on the FY02 contract. Unit price not included for airframe (price is on P5), since funding requested is for termination liability.

26.9

Total Advance Procurement

26.9

Date: Advance Procurement Requirements Analysis-Funding (P10C) February 2002 Appropriation/Budget Activity/Serial No: P-1 Line Item Nomenclature / Weapon System UH-60 BLACKHAWK (MYP) Aircraft Procurement, Army /1/Aircraft (\$ in Millions) FY 00 FY 06 Pr Yrs FY 99 FY 01 FY 02 FY 03 FY 04 FY 05 FY 07 To Comp Total Proposal w/o AP Then Year Cost 64 142 176 143 195 201 143 1054 8 183 Constant Year Cost 8 64 141 170 136 185 128 1012 157 919 Present Value 132 124 165 164 111 AP Proposal 62 188 193 137 Then Year Cost 138 170 138 1015 Constant Year Cost 8 62 136 165 132 176 177 122 974 Present Value 59 127 152 120 158 157 107 885 AP Savings (Difference) Then Year Cost -2 -5 -9 -39 -2 -5 -8 -38 Constant Year Cost -5 -6 -8 -6 -2 -5 -7 Present Value -5 -34

Costs shown are total program outlays. The AP proposal represents the current budget, including the Advance Procurement necessary to execute an FY02-06 airframe multiyear contract. Proposal without AP represents the estimated cost of single year contracting over the same time span. Constant dollars shown are FY02. A 3.2% discount factor was applied to the constant year dollars. It should be noted that even assuming single year contracting, some AP is required, since actual production lead time is greater than the effective production lead time. GFE items procured using Advance Procurement funds are not included, since they provide no cost benefit—they are procured in advance in order to support the airframe delivery schedule.

Advance Procurement Requirements Analysis-Execution (P10D)

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

(\$ in Millions)

								(\$ III WIIIIOI							
		2000							2001			20		20)03
	PTL (mos)		Contract Forecast Date	Actual Contract Date	Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date		Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date	Qty	Contract Forecast Date
End Item Quantity															
CFE Airframe Engines Avionics	18 14		Feb 00	Feb 00 Feb 00	16.3 0.3		20	Dec 00 Dec 00	Dec 00 Dec 00	17.0 12.9			Jun 02 Dec 01		Dec 02 Dec 02
Aviolities Auxiliary Power Unit Armored Crew Seat Hover Infrared Suppressor	15 12 14			Fe0 00	0.3	0.3		Mar 01 Mar 01	Dec 00 Dec 00 Dec 00	0.8 0.5 0.7	0.5	24	Mar 02 Mar 02 Mar 02	20	Dec 02 Dec 02 Dec 02
Elastomeric Bearings Miscellaneous	10														
Total Advance Procurement					16.6	16.6				31.9	31.9				
Total Advance I foculement					10.0	10.0				31.9	51.9				

Airframe funding is for termination liability of long lead and Economic Order Quantity parts. The FY00 President's Budget requested \$13.1M for airframe termination liability and \$3.6M for the procurement of 6 engines with FY00 Advance procurement funds, and projected both contract awards in December, 1999. The FY01 President's Budget requested \$10.8M in FY01 for termination liability funding in support of 9 aircraft to be procured in FY02, \$7.4M to buy 12 T700-GE-701C engines, as well as funding to buy all known future program requirements for the Auxiliary Power Unit (25/\$1.9M) and the Hover Infrared Suppressor System (31/\$2.0M). Avionics, Elastomeric Bearings, and Miscellaneous GFE items are now requisitioned from the supply system using current year funds.

Exh	nibit P-40	, Budge	Date: February 2002												
Appropriation/Budget Act Aircraft Procurement, Army /	P-1 Item Nomenclature HELICOPTER NEW TRAINING (A06500)														
Program Elements for Code B Items:					Other Relate	Other Related Program Elements:									
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog			
Proc Qty	137			17	15							169			
Gross Cost	118.2			23.8	25.0							167.0			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	118.2			23.8	25.0							167.0			
Initial Spares															
Total Proc Cost	118.2			23.8	25.0							167.0			
Flyaway U/C															
Wpn Sys Proc U/C															

Description:

The TH-67 Creek is a non-developmental commercial, three-seated, single engine, training helicopter with two main rotor blades. It is a variant of the Bell 206B-3 commercial helicopter. The aircraft is used exclusively at the US Army Aviation Center (USAAVNC), Fort Rucker for Initial Entry Rotor Wing (IERW) training. It is designed to provide safe, effective, and economical inflight training when used to demonstrate and practice basic helicopter pilot skills.

This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP), receiving visibility by HQDA, DOD and Congressional staffers.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No. Aircraft Procurement, Army / 1 / Aircraft					tem Nomenclature ER NEW TRAININ	e: G (A06500)		Weapon System	Гуре:	Date: February 2002		
ACFT	ID	FY 00			FY 01				FY 02			FY 03	FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
AIRCRAFT SUPPORT COSTS					22559 1221	17	1327	24975 25	15	1665				
Total					23780			25000						

Exhibit P-5a, Budget Procureme	nt History and Planning							Date: F	ebruary 20	002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft		Weapon Syste	em Type:			em Nomenc NEW TRAININ				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AIRCRAFT										
FY 2001	Bell Helicopter Ft. Worth, TX	SS/FP	Redstone Arsenal, AL	Mar 01	Sep 01	17	1327	Yes		Oct 00
FY 2002	Bell Helicopter Ft. Worth, TX	SS/FP	Redstone Arsenal, AL	Mar 02	Sep 03	15	1665	Yes		Oct 00
REMARKS:										

	FY 01 / 02 BUDGET P	PROE	OUCTION	SCH	IEDUL	E			Item N .ICOP				ININC	G (A0	(6500)								Date	:		F	ebru	ary 20	002			
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				S	PROC	ACCEP	BAL								Cale	endar	Yea	r 01								Cal	lenda	r Ye	ar 02	:			L A
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F							REACHED	Nuı	mber					Pri	or 1 Oc	ct	Af	fter 1 C	Oct	At	fter 1	Oct		After 1	Oct								
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	FY 03 / 04 BUDGET P	ROD	UCTION	SCH	[EDUL]	E			Item N ICOP				ININC	G (A0	06500))								Date:			Feb	ruary	2002			
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				S	PROC	ACCEP	BAL								Cale	endar	Yea	r 03								Caler	ıdar `	Year ()4			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
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M			PR	ODUCTI	ON RATES			М	FR						ADM	IINLE	AD T	IME			MFR			TOTA	A L	R	EMAI	RKS				
F							REACHED	Nuı	nber					Pri	ior 1 O	ct	Af	fter 1 C	Oct	Ai	fter 1	Oct	A	After 1	Oct	1						
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					5			5			7			12		1						
1	Bell Helicopter, Ft. Worth, TX		1.00		3.00	5.00	3		1	REO	RDER				0			0			0			0		1						
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Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ite:	F	February 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /2		craft				P-1 Item Nom GUA		ODS (TIARA)	(AZ2000)			
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	605.5	43.5	23.6	22.4	13.8	9.2	22.4	16.0	1.1			757.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	605.5	43.5	23.6	22.4	13.8	9.2	22.4	16.0	1.1			757.5
Initial Spares	9.3	2.6	5.2									17.1
Total Proc Cost	614.8	46.1	28.8	22.4	13.8	9.2	22.4	16.0	1.1			774.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

GUARDRAIL is an Airborne signal intercept and emitter location system designed to provide tactical commanders with critical battlefield information via a Joint Tactical Terminal (JTT) and other DoD tactical and fixed communications systems. It provides intelligence data via CTT/JTT to other INTEL users, such as Common Ground Station (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 (GRCS) system will provide a highly flexible architecture to allow rapid deployment to support contingency operations.

The GRCS integrates the Improved GUARDRAIL V for communications intelligence (COMINT), the Communications High Accuracy Airborne Location System (CHAALS/CHALS-X) for COMINT and precision emitter locations, the Advanced QUICKLOOK (AQL) for electronics intelligence (ELINT) and precision emitter location into a single signal intelligence (SIGINT) system. The airborne elements are integrated into the RC-12H/K/N/P/Q aircraft. Ground processing is conducted in the Integrated Processing Facility (IPF). Key performance requirements include a real-time COMINT and ELINT collection and high accuracy target location capability in communications and radar frequencies. The Interoperable Data Link (IDL)/Multi-Role Data Link (MRDL) connects the airborne elements and the ground processing element. A satellite remote relay provides rapid deployment capability.

The GUARDRAIL Information Node(GRIFN) is the GRCS miniaturized and deployable integrated processing facility (IPF), which is in compliance with OSD and the Army Distributed Common Ground Station (DCGS-A) planning. GRIFN will play a vital role in interim DCGS-A which is planned to be demonstrated at the 18th ABC in FY 03 and at III Corps in FY 04. The Guardrail Common Sensor system supports the Legacy path of the Transformation Campaign Plan (TCP).

Justification:

The GUARDRAIL Mods upgrade program will allow GRCS to support field commanders until Aerial Common Sensor (ACS) is fully fielded to the Objective Force in FY17. FY03 funds provide for continuation of the SIGINT Transition Program (STP), which will integrate advanced signal intelligence upgrades into the fielded GUARDRAIL Systems. These upgrades will improve the GRCS ability to maintain currency by providing an ability to rapidly adapt to a changing threat environment characterized by emerging digital signals.

			Date:
			February 2002
		P-1 Item Nomenclature	GUARDRAIL MODS (TIARA) (AZ2000)
Code:	Other Related l	Program Elements:	
vorks; and the	e replacemen	t of the Interoperable Airl	eporting subsystem with the Joint Tactical Terminal (JTT), which is the porne Datalink with the Tactical Common Datalink, a Total Ownership le commercial-based link.
cept military	communicat	ion emitters, and commer-	llion in FY 2003 for GRCS #2 for hardware and software to process cially available hand-held communication devices. The outyear
	erminal (CTT works; and the nent costs by request indic cept military	erminal (CTT-1) reporting works; and the replacement nent costs by fielding a mo- request indicated above, I cept military communicate	Code: Other Related Program Elements: erminal (CTT-1) reporting terminals in the GRCS Revorks; and the replacement of the Interoperable Airland tent costs by fielding a more reliable and supportable request indicated above, DERF-1 includes \$5.0 mil

Appropriation/Budget Act	tivity/Serial No:				P-1 Item Nomeno	lature					
Aircraft Procurement,	Army /2/Modification of aircraft						GUARDRAIL	MODS (TIARA)	(AZ2000)		
Program Elements for Coo	de B Items:		Code:	Other Related I	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
System 2 Block Upgrad	de										
1-96-666-6666		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GUARDRAIL Informa	ation Node (GRIFN)										
1-01-111-1111	Operational	0.0	17.6	5.0	0.0	5.0	5.0	1.1	0.0	0.0	33.7
System 4 Remote Relay	y										
1-01-222-2222		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIGINT Transition Pro	gram (STP)										
1-02-111-1111		0.0	0.0	5.1	1.4	9.1	8.8	0.0	0.0	0.0	24.4
Interference Cancellation	on 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	4.3	0.7	0.0	0.0	0.0	0.0	5.0
Airborne Tactical Com	mon Data Link										
1-03-222-2222		0.0	0.0	0.0	3.2	3.2	2.2	0.0	0.0	0.0	8.6
DMS Upgrade											
1-04-111-1111		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		263.1	22.4	13.8	9.2	22.4	16.0	1.1	0.0	0.0	348.0

MODIFICATION TITLE: GUARDRAIL Information Node (GRIFN) [MOD 2] 1-01-111-1111

MODELS OF SYSTEM AFFECTED: GUARDRAIL/Common Sensor System

DESCRIPTION/JUSTIFICATION:

GRIFN, which miniaturizes the GRCS integrated processing facility (IPF), provides the framework for the Tactical Exploitation System and GUARDRAIL/Common Sensor to become interoperable and achieve selective commonality of processors and methods. GRIFN will provide Army tactical commanders with tailorable, scaleable, easily deployable intelligence preprocessing system of systems, capable of split-based operations and will be downsized into a tactical link vehicle (TLV) and/or a tactical detection vehicle (TDV) which are shelters on a HMWVV. GRIFN will be integrated in the field and tested with GRCS aircraft. GRIFN is the SIGINT component of the Interim Distributed Common Ground Station-Army (IDCGS-A) architecture. FY 01 and 02 Funds provide for IDCGS-A functionality in System 1 GRIFN to be fielded to the 18th ABC in FY 03.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Award (Sys 4 TLV) 1QFY04 Contract Award (Sys 4 TDV) 1QFY05

Complete Critical Design Review (Sys 1) 4QFY01

Begin Integration/IDCGSA Upgrade(Sys 1) 2QFY02 Begin Integration(Sys TLV) 2QFY04 Begin Integration (Sys 4 TDV) 2QFY05
Acceptance Test (Sys 1) 2QFY03 Acceptance Test (Sys 4TLV) 3QFY05 Acceptance Test (Sys 4 TDV) 3QFY06
Final Acceptance (Sys 1) 3QFY03 Final Acceptance (Sys 4 TLV) 4Q FY05 Final Acceptance (Sys 4TDV) 4Q FY06

Installation Sc	hedule:
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Inputs Outputs

Pr Yr		FY 2001 FY 2002								FY 2	2003			FY :	2004			FY 2	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

		FY 2006				FY 2	2007			FY 2	008			FY 2	2009		То	Totals
	1	1 2 3 4		1	2	3	4	1	2	3	4	1	2	3	4	Complete		
Inputs																		0
Outputs																		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 27 Months Contract Dates: FY 2002 FY 2003 FY 2004

Delivery Date: FY 2002 FY 2003 FY 2004

Date:

February 2002

MODIFICATION TITLE (Cont): GUARDRAIL Information Node (GRIFN) [MOD 2] 1-01-111-1111

	FY:	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	Т	С	TOT	CAL .
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment			1	4.2					1	2.6	1	1.9							3	8.7
Contractor Engineering				2.5		4.6				0.6		0.5								8.2
Govt In-House/Program Mgmt				1.7		0.4				0.4		0.4		0.1						3.0
Accreditation				0.5						0.1		0.1								0.7
Logistics and Training				2.1						0.2		0.2		0.3						2.8
Acceptance Testing				0.6						0.1		0.2								0.9
Integration and Test				5.0						0.5		0.6								6.1
Spares												0.5		0.5						1.0
Fielding				1.0						0.5		0.6		0.2						2.3
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		17.6		5.0		0.0		5.0		5.0		1.1		0.0		0.0		33.7

MODIFICATION TITLE: SIGINT Transition Program (STP) [MOD 4] 1-02-111-1111

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

DESCRIPTION/JUSTIFICATION:

This modification integrates advanced signal intelligence (SIGINT) upgrades into the fielded GUARDRAIL systems. The modification includes hardware and software upgrades to handle advanced digital communication signals including: wideband commercial communications, the expanded set of LPI signals and the communications systems expected to make up the Integrated Battle Area Communications System (IBACS). This effort will extend the useful life of GRCS systems through the fielding of the Objective Force system, Aerial Common Sensor (ACS) in FY17. STP products funded through this upgrade program are the result of leveraging technologies demonstrated through the use of Defense Cryptologic Program (DCP) funds. The demonstrated capabilities are then productized for future system integration in ACS R&D line (D028). Items selected for fielding will include hardware and software which will provide the biggest payback in increasing capabilities. STP upgrades will have application to other Army INTEL collection efforts, such as Airborne Reconnaissance - Low (ARL), Prophet and the future ISR platform Aerial Common Sensor (ACS). There is potential application for other DoD INTEL collection platforms, including Rivet Joint, EP-3 and Senior Scout. Funding in FY02 will provide Wideband Spectrum analysis tools for System2. Funding in FY03 will provide additional signal processing tools for System 2.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Award Sys 2 CSP 2QFY02
Install CSP Sys 2 3-4QFY03
Contract Award CSP Sys 2 1QFY03
Install Sys 2 CSP 4QFY03
Contract Award CSP/PECS Sys 1&4
Contract Award PECS Sys 2 1QFY05
Install CSP & PECS Sys 1,4,2 3QFY03-4QFY05

lnstal	lation	Sched	lule:	
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	Pr Yr		FY:	2001			FY 2	2002			FY 2	2003			FY	2004			FY 2	2005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs									9								3	8		7	14
Outputs									9								3	8		7	14
		FY 2	2006			FY 2	2007			FY 2	2008			FY:	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. (Complete			
Inputs																					41
Outputs																					41
METHOD OF IMPLEME	NTATION	J :				ADMINI	STRATIV	VE LEAD	TIME:		2 Months	3		PRODU	CTION L	EADTIM	E:	12 Month	ıs		
Contract Dates:			FY 2002					FY 2003						FY 2004							
Delivery Date:			FY 2002					FY 2003						FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): SIGINT Transition Program (STP) [MOD 4] 1-02-111-1111

	FY:	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007		С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Installation Kits								1.2												1.2
Equipment -SW Tools					9	4.2													9	4.2
Equipment - PECS									15	5.6	9	3.4							24	9.0
Equipment - CSP									3	1.9	5	2.9							8	4.8
SW Integration																				
Ancillary Equipment PECS										0.3										0.3
Ancillary Equipment - CSP						0.0														
New Signals Transition																				
Gov't In House/Program Mgmt						0.3		0.1		0.7		0.8								1.9
Test and Accreditation						0.1		0.1												0.2
Training and Logistics										0.4		0.2								0.6
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip					9	0.5													9	0.5
FY 2003 Equip									3	0.2									3	0.2
FY 2004/2005 Equip											24	1.2							24	1.2
FY 2005 Equip Kits											5	0.3							5	0.3
Fielding																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	9	0.5		0.0	3	0.2	29	1.5		0.0		0.0		0.0	41	2.2
Total Procurement Cost		0.0		0.0	,	5.1		1.4	5	9.1	<i>ک</i> ر	8.8		0.0		0.0		0.0	71	24.4
10tal 1 loculoment Cost		0.0		0.0		$\mathcal{J}.1$		1.→		7.1		0.0		0.0		0.0		0.0		∠ ⊤.⊤

MODIFICATION TITLE: JTT Upgrades [MOD 6] 1-03-111-1111

MODELS OF SYSTEM AFFECTED: GUARDRAIL/Common Sensor Systems 1, 2, 3, & 4

DESCRIPTION/JUSTIFICATION:

This modification provides for the replacement of Commander's Tactical Terminal (CTT) reporting terminals in GRCS with Joint Tactical Terminals (JTT). This upgrade will provide reporting hardware and software which is standard with the other Army users operating on the TIBS and TRIXS networks. FY03 funds provide for engineering and fabrication of installation A kits and software security upgrades to allow insertion of PM Common Ground Station-provided JTTs (SSN V29600) into the Guardrail/Common Sensor ground stations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract 1QFY03 Install & Test Systems 1,2 2QFY04 Install & Test System 3 3QFY04 Install & Test System 4 4QFY04

Pr Yr		FY 2	2001			FY 2	2002		
Totals	1	2	3	4	1	2	3	4	

Pr Yr		FY 2	2001			FY 2	2002			FY:	2003			FY 2	004			FY 2	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	۷
														2	1	1				
														L	1	1				

		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs																		4
Outputs																		4

METHOD OF IMPLEMENTATION:		ADMINISTRATIVE LEADTIME:	1 Months	PRODUCTION LEADTIME:	12 Months
Contract Dates:	FY 2002	FY 2003		FY 2004	

Delivery Date: FY 2002 FY 2003 FY 2004

Installation Schedule:

Inputs Outputs

Date:

February 2002

MODIFICATION TITLE (Cont): JTT Upgrades [MOD 6] 1-03-111-1111

	FY :	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kit Sets							4	0.4											4	0.4
Nonrecurring Engineering								0.9												0.9
Ancillary Equipment								0.5												0.5
Equipment, Nonrecurring																				
Engineering Change Orders								0.1												0.1
Software Upgrades								1.5												1.5
Logistics and Training								0.3												0.3
Testing								0.3		0.3										0.6
Gov't In House/Program Mgmt								0.3		0.1										0.4
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits									3	0.3									3	0.3
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0	3	0.3		0.0		0.0		0.0		0.0	3	0.3
Total Procurement Cost		0.0		0.0		0.0		4.3		0.7		0.0		0.0		0.0		0.0		5.0

MODIFICATION TITLE: Airborne Tactical Common Data Link [MOD 7] 1-03-222-2222

MODELS OF SYSTEM AFFECTED: Guardrail System 1 & 4

DESCRIPTION/JUSTIFICATION:

This modification will effort will replace the GRCS critically obsolete Interoperable Airborne Data Link (IADL) with the reliable, available and maintainable state-of-the-art Tactical Common Data Link (TCDL). This initiative will keep the Army platform interoperable with the Air Force and able to meet the power, space and weight capabilities of the RC-12. Hardware and Software is being developed under the ACS R&D Line (D028). A portion of the upgrade funding was provided under OSD Total Ownership Cost Reduction (TOCR) initiative. Funding in FY03 purchases TCDLs for System 1.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Award Contract System 1 1QFY03 Award Contract System 2 1QFY04 Install TCDLs System 1 1QFY05 Install TCDLs System 4 4QFY05

Installation	ı Schedi	ıle:
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Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY :	2004			FY 2	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
																	8			7
																	8			7

	FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	15
																	15

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months

Contract Dates: FY 2002 FY 2003 FY 2004

O Months

Delivery Date: FY 2002 FY 2003 FY 2004

Date:

February 2002

MODIFICATION TITLE (Cont): Airborne Tactical Common Data Link [MOD 7] 1-03-222-2222

Installation Kits, Nonrecurring Equipment - TCDLs 2.4 2.1 2.1 4.4 4.4 4.4 4.5 4.5 5.5		FY:	2000																		
RDT&E Procurement		and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	T	·C	TOT	ΓAL
Procurement		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity Installation Kits Installation Kits Installation Kits, Nonrecurring Equipment - TCDLs Ancillary Equipment Equipment Government Gov	RDT&E																				
Installation Kits	Procurement																				
Installation Kits, Nonrecurring Equipment - TCDLs	Kit Quantity																				
Equipment - TCDLs	Installation Kits							8	0.4	7	0.4									15	0.8
Ancillary Equipment	Installation Kits, Nonrecurring																				
Engineering Change Orders Data Training Equipment Support Equipment Gov't In-House/Program Mgt Interim Contractor Support FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2004 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits	Equipment - TCDLs								2.4		2.1										4.5
Data	Ancillary Equipment								0.3		0.3										0.6
Training Equipment Support Equipment Gov't In-House/Program Mgt 0.1 0.4 0.2 6.5 6.6 6.0 </td <td>Engineering Change Orders</td> <td></td>	Engineering Change Orders																				
Support Equipment 0.1 0.4 0.2 0.2 0.6 0.0 <td>Data</td> <td></td>	Data																				
Gov't In-House/Program Mgt	Training Equipment																				
Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits	Support Equipment																				
Installation of Hardware FY 2000 & Prior Equip Kits FY 2001 Kits FY 2001 Kits FY 2002 Equip Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	Gov't In-House/Program Mgt								0.1		0.4		0.2								0.7
FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	Interim Contractor Support												0.5								0.5
FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	Installation of Hardware																				
FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	FY 2000 & Prior Equip Kits																				
FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	FY 2001 Kits																				
FY 2004 Equip Kits 8 0.8 8 0. FY 2005 Equip Kits 7 0.7 7 0. FY 2006 Equip Kits 8 0.8 9 0. 7 0. FY 2007 Equip Kits 9 0.8 0.8 0.8 0.8 0.9 0.0 7 0.0	FY 2002 Equip Kits																				
FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	FY 2003 Equip Kits																				
FY 2006 Equip Kits FY 2007 Equip Kits	FY 2004 Equip Kits											8	0.8							8	0.8
FY 2007 Equip Kits	FY 2005 Equip Kits											7	0.7							7	0.7
	FY 2006 Equip Kits																				
TC Equip- Kits	FY 2007 Equip Kits																				
	TC Equip- Kits																				
	Total Installment		0.0		0.0		0.0				0.0	15	1.5		0.0		0.0		0.0	15	1.5
Total Procurement Cost 0.0 0.0 0.0 3.2 3.2 2.2 0.0 0.0 0.0 8.	Total Procurement Cost		0.0		0.0		0.0		3.2		3.2		2.2		0.0		0.0		0.0		8.6

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	nte:	F	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /2		eraft				P-1 Item Nom ARI		RA) (AZ2050))			
Program Elements for Coc	le B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			5.8	6.5	12.2	20.9	15.8					61.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			5.8	6.5	12.2	20.9	15.8					61.2
Initial Spares												
Total Proc Cost			5.8	6.5	12.2	20.9	15.8					61.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

DESCRIPTION: Airborne Reconnaissance Low (ARL)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 program integrates the capabilities of ARL-I and ARL-C into a single system to satisfy requirements identified by validated CINC Statements of Need (SON). The merger of these programs minimizes acquisition and operational costs, increases availability, and optimizes flexibility resulting from the integration of the electro-optic and Radio Frequency (RF) sensors. The primary sensors will be COMINT with precision Direction Finding (DF) capability, IMINT electro-optics for target identification, and classification and multimode capability including wide area search Moving Target Indicator (MTI) and Synthetic Aperture Radar (SAR). ARL provides near real-time tactical airborne COMINT and IMINT collection support to Joint Task Force (JTF) Commanders. ARL is a multi-INT (combined COMINT and IMINT) system, designed for forward deployment/force projection in Operations Other Than War (OOTW) to mid intensity conflict environments. ARL also conducts daily JCS Sensitive Reconnaissance Operations, is rapidly self-deployable to support contingency operations, and is the airborne Reconnaissance Surveillance Target Acquisition (RSTA) platform of choice for various non-DOD government agencies such as DEA and FEMA. ARL is currently providing an indications and warnings capability to U.S. Forces in Korea. A Nov 1995 Department of the Army (DA) Directed Requirement validated the USARPAC/PACOM SON for six ARL-Ms with Electronic Intelligence (ELINT) and Moving Target Indicator/Synthetic Aperture Radio (MTI/SAR). ARL is configured to allow interoperability with other Army and DOD Intell nodes such as Common Ground Station (CGS) and Tactical Exploitation System (TES). ARL uses Tactical Common Data Links (TCDL) to pr

Justification:

FY03 provides funding for six modifications to upgrade the ARL systems. These are: 1)Install Demand Assigned Multiple Access (DAMA) compliant radios mandated for Tactical Satellite communications. 2)COMINT upgrade to prosecute "P Band" Signals in response to an urgent threat relevant to ROK theaters of operation. 3)Radar upgrades to respond to ARL objective requirements and avoid a cessation of operations through obsolescence. 4)Upgrade Aircraft Survivability Equipment (ASE) suite to respond to modern threats emerging requirement essential to the survivability of entire fleet. 5)Aircraft Standardization to improve reliability, meet worldwide flight instrument requirements, and foster weight reduction. 6)Joint Tactical Terminal (JTT) Integration for worldwide interoperability with other Army units.

Exhibit P-40M, Bu	dget Item Justificatio	n Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Activity/Se Aircraft Procurement, Army /2	rial No:				P-1 Item Nomeno	lature	ARL MODS (ΓIARA) (AZ2050)	-		
Program Elements for Code B Iter	ns:		Code:	Other Related	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Superhawk Software Integ Tro	puble Rpts										
0-00-00-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upgrade to IMINT Suite											
1-11-11-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMINT/ESM Installation of	n ARL-M4										
2-22-22-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
Airspace 2000											
4-44-44-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upgrade ARL-M4 & M5 IMI	NT Suites										
5-55-55-0000	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	2.3	4.1	3.9	0.0	0.0	0.0	0.0	10.3
Radar Replacement											
7-77-00-0000	Operational	0.0	0.0	0.0	7.1	5.1	0.0	0.0	0.0	0.0	12.2
Aircraft Standardization											
8-88-88-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aircraft Survivability Equipme	ent (ASE)										
9-99-99-0000	Operational	0.0	0.0	0.0	6.1	5.7	0.0	0.0	0.0	0.0	11.8

Exhibit P-40	OM, Budget Item Justifica	tion Sheet				Dat	2:	Fe	ebruary 2002		
Appropriation/Budge Aircraft Procurem	t Activity/Serial No: ent, Army /2/Modification of aircraft				P-1 Item Nomeno	elature	ARL MODS (TIARA) (AZ2050))		
Program Elements for	Code B Items:		Code:	Other Related	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Joint Tactical Term	inal (JTT) Integration										
0-10-00-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals		5.8	6.5	12.3	20.9	15.8	0.0	0.0	0.0	0.0	61.3

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

MODELS OF SYSTEM AFFECTED: ARL-M

DESCRIPTION/JUSTIFICATION:

Funding provides for modifications to the communications intelligent (COMINT) subsystem in the ARL-M fleet to expand intercept and direction finding capabilities, e.g., Special Radio Equipment, in response to an urgent COMINT threat to prosecute "P Band" Signals. A set of exploitation tools along with a revised digital audio recorder will also be provided to units in Ft Bliss and ROK. This requirement is relevant to both SOUTHCOM and ROK theaters of operations. FY02 funds provide for COMINT subsystems for ARL-M4 & 5 at Ft Bliss. FY03 funds will procure COMINT subsystems for ARL-M1 & 2 in ROK will field ARL-M4 & 5.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Option 2QFY02 1QFY03 1QFY04
System Review 3QFY02 2QFY03 2QFY04
Integrated System Test Complete Modification 2QFY03 1QFY04 1QFY05
3QFY03 2QFY04 2QFY05

Installation Schedule:																					
	Pr Yr		FY	2001			FY 2	2002			FY 20	03			FY 2	004			FY 20	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs										2				2				2			
Outputs												2				2				2	
					_																
		FY	2006			FY 2	2007			FY 2	008			FY 2	.009			То			Totals
	1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	C	Complete			
Inputs																					6
Outputs																					6
METHOD OF IMPLEME	ENTATION	V :				ADMINI	STRATIV	/E LEAD	TIME:		3 Months			PRODUC	TION LE	ADTIM	Ξ:	10 Months			
Contract Dates:			FY 2002					FY 2003						FY 2004							
Delivery Date:			FY 2002					FY 2003						FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): COMINT Upgrades [MOD 7] 6-66-66-0000

	FY	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	C	TOT	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits					2	0.2	2	0.2	2	0.2									6	0.6
Installation Kits, Nonrecurring						0.8														0.8
Equipment						0.8		0.8		0.8										2.4
Exploitation Tools								1.5												1.5
Testing								0.2		0.4										0.6
Training								0.2		0.2										0.4
Gov't In-House/Program Mgt						0.2		0.2		0.2										0.6
ECOs						0.3		0.2		0.5										1.0
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits							2	0.8											2	0.8
FY 2003 Equip Kits									2	0.8									2	0.8
FY 2004 Equip Kits									2	0.8									2	0.8
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0	2	0.8	4	1.6		0.0		0.0		0.0		0.0	6	2.4
Total Procurement Cost		0.0		0.0		2.3		4.1		3.9		0.0		0.0		0.0		0.0		10.3
				•									-			•				

MODIFICATION TITLE: Radar Replacement [MOD 8] 7-77-00-0000

MODELS OF SYSTEM AFFECTED: ARL-M1,2,3

DESCRIPTION/JUSTIFICATION:

This modification will replace the current Hughes Integrated Surveillance and Reconnaissance (HISAR) system with one which will meet the objectives cited in the USARPAC Statement of Needs (SON). The objective radar will have a wide area search Moving Target Indicator (MTI) mode (to 150Km range), Narrow Sector and Single Beam MTI, strip map Synthetic Aperture Radar (SAR), High Resolution spotlight SAR (1 ft or better resolution), and a simultaneous SAR/MTI capability. The radar will also be designed to interface with emerging technology (ie, coherent change detection) dynamic imaging, radar tags, etc). FY03 funds will procure the first two ARL-M radars for USFK.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Option1QFY031QFY04System Status Review2QFY032QFY04System Acceptance Test1QFY041QFY04System Fielding2QFY042QFY05

Installation Schedule:																					
	Pr Yr		FY:	2001			FY 2	2002			FY 2	003			FY 2	2004			FY 20	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs														1				2			
Outputs															1				2		
		FY :	2006			FY 2	2007			FY	2008			FY:	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					3
Outputs																					3
METHOD OF IMPLEME	NTATION	I :				ADMINI	STRATIV	VE LEAD	TIME:		1 Months			PRODU	CTION LE	EADTIM	Œ:	10 Months	S		
Contract Dates:			FY 2002					FY 2003						FY 2004							
Delivery Date:			FY 2002					FY 2003						FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): Radar Replacement [MOD 8] 7-77-00-0000

	FY :	2000																		
	and	Prior	FY :	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits							2	0.2	1	0.1									3	0.3
Installation Kits, Nonrecurring								0.4												0.4
Equipment								5.0		2.5										7.5
Equipment, Nonrecurring								0.9												0.9
Engineering Change Orders								0.1		0.4										0.5
Data								0.1												0.1
Training Equipment																				
Testing								0.1		0.1										0.2
Other (Fielding)										0.2										0.2
Govt In-House/Prog Mgt								0.3		0.3										0.6
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits									3	1.5									3	1.5
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0	3	1.5		0.0		0.0		0.0		0.0	3	1.5
Total Procurement Cost		0.0		0.0		0.0		7.1		5.1		0.0		0.0		0.0		0.0		12.2

MODIFICATION TITLE: Aircraft Survivability Equipment (ASE) [MOD 10] 9-99-99-0000

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

DESCRIPTION/JUSTIFICATION:

Modification provides for the addition of aircraft survivability equipment (ASE) suite to include the non-recurring engineering and interference test and analysis with electronic mission equipment. The ASE includes APR-39 Radar Warning Receivers, ALE-47 Flare and Chaff dispensing system and the AAR-47 Nissile Warning System. FY03 funds four ASE suites for two ARL-Cs and two ARL-Ms.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract Option 1QFY03 System Review 2QFY03 Integrated System Test 3QFY04 Field Modification 4QFY04

lnstal	lation	Sched	lule:	
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Inputs Outputs

Inputs Outputs

Pr Yr		FY 2	2001			FY 2	2002			FY:	2003			FY :	2004			FY 2	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
															4					
																4				

Totals	То		2009	FY 2			2008	FY 2			2007	FY 2			.006	FY 2	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
4																	
4																	

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 12 Months

Contract Dates: FY 2002 FY 2003 FY 2004

Delivery Date: FY 2002 FY 2003 FY 2004

Date:

February 2002

MODIFICATION TITLE (Cont): Aircraft Survivability Equipment (ASE) [MOD 10] 9-99-99-0000

	FY :	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	T	'C	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits							4	1.2	4	1.2									8	2.4
Installation Kits, Nonrecurring								1.9												1.9
Equipment								0.6		0.6										1.2
Equipment, Nonrecurring								0.8												0.8
Engineering Change Orders/Data								0.7												0.7
Software Modifications								0.2												0.2
Training Equipment								0.2		0.2										0.4
Testing																				
Gov't In-House/Prog Mgt								0.2		0.2										0.4
Contractor Engineering								0.3		0.3										0.6
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits									8	3.2									8	3.2
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0	8	3.2		0.0		0.0		0.0		0.0	8	3.2
Total Procurement Cost		0.0		0.0		0.0		6.1		5.7		0.0		0.0		0.0		0.0		11.8

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	F	February 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /2		craft				P-1 Item Nom AH-	nenclature ·64 MODS (A	A6605)				
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:	AA6607, A	A6608, AA09°	78, PE23744 I	0508 & 50A	
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	506.7	50.1	65.5	45.4	38.2	93.6	116.1	83.5	170.4	100.6	176.8	1447.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	506.7	50.1	65.5	45.4	38.2	93.6	116.1	83.5	170.4	100.6	176.8	1447.1
Initial Spares												
Total Proc Cost	506.7	50.1	65.5	45.4	38.2	93.6	116.1	83.5	170.4	100.6	176.8	1447.1
Flyaway U/C												
Wpn Sys Proc U/C				·								

Description:

The AH-64 is a single main rotor, twin engine, tandem seat attack helicopter armed with HELLFIRE antitank missiles, 2.75 inch rockets, and 30MM gun. The AH-64 is capable of defeating armor in day, night, and adverse weather. The Target Acquisition Designation Sight (TADS) is housed in a turret on the nose of the AH-64 and consists of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/ Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the copilot/gunner's FLIR.

This system supports the Legacy ("L") transition path of the Transformation Campaign Plan (TCP).

Justification:

As the Army's primary Attack Helicopter, the AH-64 has been integrated in maneuver and fire plans of the combined arms team and will have the primary mission of destroying high value targets. The firepower, speed and agility of the AH-64 will provide a versatility to the combined arms team not otherwise available. Modifications are based on fleetwide reliability, availability, and maintainability (RAM) improvements and limited operational enhancements identified as a result of lessons learned during Operation Desert Storm, and Albania/Kosovo operations.

Funding for FY03 is for the Backup Control System (BUCS), Airframe Modifications, TADS/PNVS Upgrades, Misc Mods \$5 Million or Less (no P3a set), National Guard (NG) Fielding, Combat Mission Simulators (CMS), and Modernized TADS/PNVS (M-TADS).

Exhibit P-40M, Bu	dget Item Justifica	tion Sheet				Date	à:	F	ebruary 2002		
Appropriation/Budget Activity/Se Aircraft Procurement, Army /2					P-1 Item Nomeno	lature	AH-64 MODS	(AA6605)			
Program Elements for Code B Ite	ms:		Code:	Other Related	Program Elements:		AA6607, AA66	08, AA0978, PE2	3744 D508 & 50A		
Description	_	Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Backup Control System (BUC	CS)										
1-86-01-2025		19.7	0.0	0.0	5.4	6.3	6.2	3.7	3.4	3.6	48.3
Airframe Modifications											
1-95-01-2007		25.2	8.6	2.0	1.8	0.0	0.0	0.0	0.0	0.0	37.6
TADS/PNVS Upgrades											
1-94-01-2005		34.9	15.7	14.5	11.9	15.0	13.6	13.4	10.1	22.0	151.1
MISC Mods and R&S Mods \$	55M or less (No P3a set)										
NA		532.6	21.1	21.7	24.7	19.1	21.8	106.7	0.0	65.2	812.9
Combat Mission Simulator (C	MS)										
1-01-01-0021		10.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	40.0
National Guard Fielding											
NA		0.0	0.0	0.0	15.8	24.5	24.8	0.0	0.0	0.0	65.1
Modernized TADS/PNVS (M	-TADS)										
1-01-01-0022		0.0	0.0	0.0	4.0	51.2	17.1	46.7	87.1	86.0	292.1
Totals		622.4	45.4	38.2	93.6	116.1	83.5	170.5	100.6	176.8	1447.1

MODIFICATION TITLE: Backup Control System (BUCS) [MOD 1] 1-86-01-2025

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Operational requirement.

This modification is required to retrofit 231 AH-64 Apache aircraft to a BUCS active configuration. This quantity represents those A Model Apaches that will not be remanufactured to the Longbow configuration.

Already the BUCS redesign has been accomplished on Longbow aircraft, Lots 2-4 (134 a/c) as part of the D Model remanufacture effort. And, 24 Longbow Apache Lot 1 aircraft have been retrofitted (and Lots 5-10 are funded by the Longbow reman line).

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Initial contract award, 30 Sep 97, was for Lots 2-5 and retrofit of Lot 1 aircraft. First delivery of Lot 2 aircraft was Mar 98.

Installation Schedule:																					
	Pr Yr		FY	2001			FY 2	2002			FY 20	003			FY 200	04			FY 20	05	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	158												15	15	15	15	17	17	17	17	17
Outputs	158												15	15	15	15	17	17	17	17	17
		FY 2	2006			FY 2	2007			FY 2	2008			FY 20	09			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs	17	17	16	6	6	7	7	0	3	2	3	2									389
Outputs	17	17	16	6	6	7	7	0	3	2	3	2									389
METHOD OF IMPLEME	NTATION	I:	Contract			ADMINI	STRATIV	/E LEAD	TIME:		2 Months		P	RODUCT	ION LEA	DTIME:	8	Months			
Contract Dates:			FY 2002	Г	ec 01			FY 2003	Dec	02			F	Y 2004	Dec 0	3					
Delivery Date:			FY 2002	Α	ug 02			FY 2003	Aug	03			F	Y 2004	Aug 0)4					

February 2002

Date:

Date:

February 2002

MODIFICATION TITLE (Cont): Backup Control System (BUCS) [MOD 1] 1-86-01-2025

	FY 2	2000																		
	and l	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	Т	C	ТОТ	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	24						60		68		67		26		5		5		255	
Installation Kits		2.0						5.4		6.3		6.2		3.7		3.4		3.6		30.6
Installation Kits, Nonrecurring																				
Equipment	134	7.5																	134	7.5
Equipment, Nonrecurring		7.6																		7.6
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other		0.1																		0.1
Interim Contractor Support		2.5																		2.5
Installation of Hardware																				
FY 2000 & Prior Equip Kits	158																		158	
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits							15		45										60	
FY 2004 Equip Kits									17		51								68	
FY 2005 Equip Kits											17		50						67	
FY 2006 Equip Kits													6		20				26	
FY 2007 Equip Kits																	5		5	
TC Equip- Kits																	5		5	
Total Installment	158	0.0		0.0		0.0	15	0.0	62	0.0	68	0.0	56	0.0	20	0.0	10	0.0	389	0.0
Total Procurement Cost		19.7		0.0		0.0		5.4		6.3		6.2		3.7		3.4		3.6		48.3

INDIVIDUAL MODIFICATION	Date:	February 2002
		-

MODIFICATION TITLE: Airframe Modifications [MOD 2] 1-95-01-2007

MODELS OF SYSTEM AFFECTED: AH- 64 Apache

DESCRIPTION/JUSTIFICATION:

Operational and logistical improvement.

These modifications provide for the strengthening of airframe components to withstand higher loading. Funding addresses three primary areas plus several additional areas susceptible to cracking. Specific modifications include slot closure, a single piece 530 and 547 frame, and elastomeric mounts. In total, there will be 373 AH-64A aircraft retrofitted under ECP 1315.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract was awarded Nov 96 for ECP 1315 for retrofitting 330 AH-64A Apaches. A total of 373 AH-64A Apache helicopters will have the ECP 1315 applied.

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	002			FY 200	13			FY:	2004			FY	2005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4 1	2		3 4
Inputs	245	9	9	10	10	12	12	12	12	12	12	12	6								
Outputs	245	9	9	10	10	12	12	12	12	12	12	12	6								
		FY 2006				FY 2	007			FY 200)8			FY 20	09			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4	Complete			
Inputs																					373
Outputs																					373
METHOD OF IMPLEME	NTATION	:	Contract			ADMINIS	TRATIV	E LEAD	TIME:	2 1	Months		PR	ODUCT	ION L	EADTI	ME:	9 Month	S		
Contract Dates:			FY 2002	D	ec 01		1	FY 2003					FY	2004							
Delivery Date:	FY 2002 Sep 02]	FY 2003					FY	2004								

Date:

February 2002

MODIFICATION TITLE (Cont): Airframe Modifications [MOD 2] 1-95-01-2007

	FY 2	2000																		
	and 1	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	T	С	ТОТ	ΊΑL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	283		90																373	
Installation Kits		16.2		6.9																23.1
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip 283 Kits	245	9.0	38	1.7															283	10.7
FY 2001 90 Kits					48	2.0	42	1.8											90	3.8
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment	245	9.0	38	1.7	48	2.0	42	1.8		0.0		0.0		0.0		0.0		0.0	373	14.5
Total Procurement Cost		25.2		8.6		2.0		1.8		0.0		0.0		0.0		0.0		0.0		37.6

FY 2004

Jul 04

MODIFICATION TITLE: TADS/PNVS Upgrades [MOD 3] 1-94-01-2005

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Operational, and logistical improvement.

Provides for system upgrade through new/updated hardware integration into Lots III thru XII TADS/PNVS systems. Facilitates maintainers' access to TADS/PNVS systems thereby allowing for accelerated application of outstanding ECPs. Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrades/integration of hardware in the TADS/PNVS. Provides a single configuration TADS/PNVS to the Longbow. This is a critical AH-64D element in the Longbow remanufacturing effort.

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

FY 2002

Jul 02

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract award was Dec 95. Date of first delivery was Jun 96.

	Pr Yr		FY 20	001			FY 2	.002			FY 200	03			FY 2	004			FY 2	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	207	15	15	15	15	15	15	15	15	16	18	19	19	18	18	17	17	16	16	16	16
Outputs	143	15	15	15	15	16	16	16	16	16	15	15	15	15	16	17	17	19	19	19	19
	FY 2006					FY 20	007			FY 20	08			FY 20	09			To			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	C	omplete			
Inputs	16	16	16	15	11	12	12	12	20	20	20	20	19					0			742
Outputs	16	16	16	16	15	16	16	16	12	12	12	11	20	20	20	20		19			742
METHOD OF IMPLEME	MENTATION: Contract					ADMINIS	TRATIV	E LEAD	ГІМЕ:	2	Months		P	RODUCT	TON LE	ADTIMI	∃:	7 Months			
Contract Dates:	FY 2002 Dec 01]	FY 2003	Dec	02			F	Y 2004	Dec	03					

Delivery Date:

Installation Schedule:

Jul 03

FY 2003

Date:

February 2002

MODIFICATION TITLE (Cont): TADS/PNVS Upgrades [MOD 3] 1-94-01-2005

	FY 2	2000																		
	and l	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	ΊΑL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	207		68		68		56		70		64		63		47		99		742	
FFP/T&M/CFE/O&A		22.7		9.5		10.0		7.6		11.0		9.7		9.4		8.4		17.0		105.3
Installation Kits, Nonrecurring																				
Equipment (GFE)		12.2		6.2		4.5		4.3		4.0		3.9		4.0		1.7		5.0		45.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits	143		60		4														207	
FY 2001 Kits					60		8												68	
FY 2002 Equip Kits							53		15										68	
FY 2003 Equip Kits									50		6								56	
FY 2004 Equip Kits											70								70	
FY 2005 Equip Kits													64						64	
FY 2006 Equip Kits															63				63	
FY 2007 Equip Kits																	47		47	
TC Equip- Kits																	99		99	
Total Installment	143	0.0	60	0.0	64	0.0	61	0.0	65	0.0	76	0.0	64	0.0	63	0.0	146	0.0	742	0.0
Total Procurement Cost	143	34.9	60	15.7	04	14.5	01	11.9	03	15.0	70	13.6	04	13.4	03	10.1	140	22.0	742	151.1
Total Hocurchicht Cost		34.9		13.7		14.3		11.9		13.0		13.0		13.4		10.1		22.0		1,11,1

MODIFICATION TITLE: Combat Mission Simulator (CMS) [MOD 5] 1-01-01-0021

MODELS OF SYSTEM AFFECTED: AH-64A Apache Helicopter

DESCRIPTION/JUSTIFICATION:

The FY 03 budget funds upgrade of 5 Combat Mission Simulators (CMS) to the current A Model configuration. The CMS modification includes: an upgrade of the computational system necessary for the incorporation of aircraft Engineering Change Proposals (ECPs), including BUCS, EGI, and Area Weapon System accuracy improvement; replacement of the Image Generator (IG) with a state-of-the-art IG system; modernization of the Instructor Operator system; and, incorporation of a new tactial gaming environment with increased visual fidelity.

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Contract was awarded in May 01 by STRICOM for the upgrade of 1 CMS with yearly options thru FY 03 for the upgrade of up to an additional 6 systems. Development milestones established as a basis for performance based payments for the first CMS upgrade include a Preliminary Design Review (PDR), host computer upgrade demo, Detailed Design Review (DDR), completion of in-house testing, and completion of on-site retrofit and Gov't acceptance as Ready for Training in Dec 02.

Upgrade of these 5 CMS's will begin in FY 03 and will occur by exercising options on the existing STRICOM contract.

	Pr Yr		FV	2001			EV '	2002			FY 200)3			FY 20	04			FY 2	005	
		1	1 1	2001	4	1	111	2002	4	1	2	2	4	1	1 1 20	2	4	1	2	2	4
	Totals	1	2	. 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs				1						5											
Outputs												1			5						
		FY	2006			FY 2	2007			FY 2	800			FY 20	009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					6
Outputs																					6
METHOD OF IMPLEM	ENTATION	J :	Contract			ADMINI	STRATIV	VE LEAD	TIME:	2	Months		PI	RODUCT	TION LEA	DTIMI	Ξ:	15 Month	ıs		
Contract Dates:			FY 2002					FY 2003	Nov	02			F	Y 2004							
Delivery Date:			FY 2002					FY 2003	Jan	03			F	Y 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): Combat Mission Simulator (CMS) [MOD 5] 1-01-01-0021

	FY	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	Т	°C	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	1	6.0					5	30.0											6	36.0
Equipment, Nonrecurring		4.0																		4.0
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits							1												1	
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits									5										5	
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0	1	0.0	5	0.0		0.0		0.0		0.0		0.0	6	0.0
Total Procurement Cost		10.0		0.0		0.0		30.0		0.0		0.0		0.0		0.0		0.0		40.0

MODIFICATION TITLE: National Guard Fielding [MOD 6] NA

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION/JUSTIFICATION:

Funding supports the fielding of 3 new AH-64A battalions to the US Army National Guard (NG) as mandated by the Army's Aviation Transformation Plan. Two battalions of 18 aircraft each, and 1 squadron of 16 aircraft, will be converted for the A Model Apache (to replace retiring AH-1 aircraft).

Fielding costs are associated with providing Peculiar Ground Support Equipment (PGSE), Ground Support Equipment (GSE), Tools, Authorized Stockage List (ASL), Prescribed Load List (PLL -- i.e., Aviation Unit Maintenance Stockage), Aicraft Survivability Equipment (ASE), Electronic Equipment Test Facility (EETF) refurbishment, and Aviation Mission Planning Station (AMPS) impacts.

Equipment costs are total Battalion package shipsets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Provision of Battalion/Squadron Package Shipsets and Western Area Aviation Training Site (WAATS) and Aviation Classification Repair Activity Depot(AVCRAD) transition: Start: FY03 End: FY05

Installation Schedule:																					
	Pr Yr		FY	2001			FY 2	2002			FY 2	2003			FY	2004			FY 2	2005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs																					
Outputs																					
		FY 2	2006			FY 2	2007			FY 2	2008			FY:	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEME	NTATION	I :				ADMINI	STRATIV	Æ LEAD	TIME:		0 Months			PRODU	CTION L	EADTIM	E:	0 Months			
Contract Dates:			FY 2002					FY 2003						FY 2004							
Delivery Date:			FY 2002					FY 2003						FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): National Guard Fielding [MOD 6] NA

	FY 2	2000																		
	and l	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	T	С	ТОТ	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
NG Battalion Package Shipsets							18	15.8	16	15.9	18	18.5							52	50.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other										8.6		6.3								14.9
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		0.0		15.8		24.5		24.8		0.0		0.0		0.0		65.1

MODIFICATION TITLE: Modernized TADS/PNVS (M-TADS) [MOD 7] 1-01-01-0022

MODELS OF SYSTEM AFFECTED: AH-64A Apache Helicopter

DESCRIPTION/JUSTIFICATION:

Funding will procure M-TADS/PNVS modification for 241 AH-64A Apache helicopters.

M-TADS/PNVS is a U.S. Army program to develop, test, integrate, and produce a Second Generation FLIR (SGF) for the Army's entire fleet of AH-64A and AH-64D aircraft. The FLIR system enables pilotage of the aircraft and the engagement of targets during night operations and adverse weather conditions. M-TADS/PNVS will leverage technology already invested in electronics, sensors and optics to provide the best sensor available at the lowest cost. Enhancements, over the present Apache FLIR, include increased range for detection, recognition and identification of targets; higher resolution and improved sensitivity for improved safety and pilotage performance, especially in adverse weather; increased capability to identify friend versus foe during hostilities; and increased reliability with a corresponding reduction in O&S costs. These enhancements will improve the overall warfighting capability of the Apache aircraft by: 1) significantly enhancing the pilot's visibility and safety while improving target designation and acquisition; 2) providing improved clarity and ability to fly and navigate using advanced FLIR imagery; 3) improving aircraft survivability with increased standoff ranges; and 4) reducing the risk of fratricide.

This system supports the Legacy ("L") transition path of the Transformation Campaign Plan (TCP).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Oct 00 -- MTADS/PNVS EMD contract award

Jan 01 -- Preliminary Design Review (PDR)

Aug 01 -- Critical Design Review (CDR)

May 02 -- Qualification testing

Jan 03 -- Operational test (OT)

Mar 03 -- EMD Contract completed

Apr 03 -- MTADS/PNVS Production contract award

Installation Schedule: Pr Yr FY 2001 FY 2005 FY 2002 FY 2003 FY 2004 Totals Inputs Outputs FY 2006 FY 2007 FY 2008 FY 2009 To Totals Complete 9 19 19 19 19 21 21 21 21 Inputs 241 19 21 21 21 19 19 21 241 Outputs METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 18 Months Contract Dates: FY 2002 FY 2003 FY 2004 Apr 03 Delivery Date: FY 2002 FY 2003 FY 2004 Oct 04

AA6605 AH-64 MODS Item No. 8 Page 13 of 14

Exhibit P-3a Individual Modification

Date:

February 2002

MODIFICATION TITLE (Cont): Modernized TADS/PNVS (M-TADS) [MOD 7] 1-01-01-0022

	FY :	2000	1																	
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	C	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment							2	4.0	35	51.2	15	17.1	29	46.7	76	87.1	84	86.0	241	292.1
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits											2								2	
FY 2004 Equip Kits											26		9						35	
FY 2005 Equip Kits													15						15	
FY 2006 Equip Kits															29				29	
FY 2007 Equip Kits																	76		76	
TC Equip- Kits																	84		84	
		0.0		0.0		0.0		0.6		0.0	26	0.6	2.1	0.0	26	0.6	1.00	0.6	241	0.0
Total Installment		0.0		0.0		0.0		0.0		0.0	28	0.0	24	0.0	29	0.0	160	0.0	241	0.0
Total Procurement Cost		0.0		0.0		0.0		4.0		51.2		17.1		46.7		87.1		86.0		292.1

Exh	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Di	nte:	F	ebruary 2002		
Appropriation/Budget Act Aircraft Procurement, Army /		raft				P-1 Item Nom CH-		IELICOPTER I	MODS (AA02:	52)		
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	RDTE PE 0	203744A			
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	3757.6	80.4	114.7	182.3	251.5	399.8	543.3	558.0	626.6	509.3	4949.3	11972.6
Less PY Adv Proc	940.0				0.0	17.7	21.2	22.9	31.2	28.9	314.7	1376.6
Plus CY Adv Proc	940.0			0.0	17.7	21.2	22.9	31.2	28.9	31.3	283.4	1376.6
Net Proc (P-1)	3757.6	80.4	114.7	182.3	269.2	403.2	545.0	566.3	624.3	511.8	4918.0	11972.6
Initial Spares	260.4											260.4
Total Proc Cost	4017.9	80.4	114.7	182.3	269.2	403.2	545.0	566.3	624.3	511.8	4918.0	12233.0
Flyaway U/C												
Wpn Sys Proc U/C												

The CH-47 heavy lift helicopter is a day/night tandem rotor helicopter powered by two T-55 turbine engines. The CH-47 is the Army's only active heavy cargo helicopter and is a key element in the Contingency CORPS. The Chinook integrates in a system of systems fashion to enhance battlefield mobility for tactical vehicles, artillery and engineer equipment, personnel and logistical support equipment. Cargo Helicopters provide the logistical base for Air-Land operations. The Chinook also provides support of operations other than war. The CH-47F Operational Requirements Document (ORD) contains interoperability key performance parameters allowing the Chinook to operate on the digitized battlefield. The ORD is being revised to include the specific information exchange requirements. The budget line for SSN AA0254 has been consolidated with AA0252 starting in FY 02. The FY01 total includes the FY01 amount of \$82.261M from SSN AA0254. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 03 funding procures safety and operational modifications to the CH-47D fleet and trainers to maintain the latest configuration. Safety and operational modifications, to include component recapitalization, are planned for all fielded aircraft. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications occurring during FY 02-07 are procurement of kits for Improved Battery, Conversion of the T55-L-712 to T55-GA-714A Engines, Auxiliary Power Unit Upgrade, Extended Range Fuel System, component recapitalization and conversion to CH-47F.

Exhibit P-40M, Bu	dget Item Justificatio	n Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Activity/Se Aircraft Procurement, Army /2					P-1 Item Nomeno	clature	CH-47 CARG		MODS (AA0252)		
Program Elements for Code B Iter	ms:		Code:	Other Related	Program Elements:		RDTE PE 0203	744A			
Description		Fiscal Years			_						
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Total Ownership Cost Reducti	on										
0-00-00-0000	Operational	0.0	1.7	1.2	1.7	0.0	0.0	0.0	0.0	0.0	4.6
Improved Battery											
1-95-01-0822	Operational	0.0	2.5	0.3	0.4	0.0	0.0	0.0	0.0	0.0	3.2
Engine Filtration System											
1-93-01-0807	Operational	0.0	0.2	4.1	8.0	7.2	6.7	6.9	1.4	1.6	36.1
Extended Range Fuel System											
1-97-01-822	Operational	19.9	8.1	19.3	17.6	15.8	0.0	0.0	0.0	0.0	80.7
Engine Upgrade to T55-GA-7	14A Configuration										
1-96-01-0828	Operational	263.9	99.5	124.2	140.9	140.4	171.4	153.9	64.7	5.6	1164.5
APU Upgrade											
	Safety	6.0	3.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	10.6
Installation of Modifications F	Kits Various										
Various	Operational/Safety	30.2	0.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	32.8
CH-47D Flight Simulator Upg	grade										
	Safety	0.0	0.0	5.4	5.0	10.2	0.0	0.0	0.0	0.0	20.6
CH-47F											
0-00-00-0000	Operational	0.0	66.1	94.9	178.4	284.3	303.8	345.2	344.9	3812.2	5429.8
Component Recapitalization											
0-00-00-0000	Reliability	0.0	0.0	0.0	25.6	51.9	43.8	68.5	49.7	775.4	1014.9

Exhibit P-40M,	Budget Item Justifica	ation Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Activ Aircraft Procurement, Ar	ity/Serial No: my /2/Modification of aircraft				P-1 Item Nomeno	clature	CH-47 CARG	O HELICOPTER	MODS (AA0252)		
Program Elements for Code	B Items:		Code:	Other Related	Program Elements:		RDTE PE 0203	744A			
Description		Fiscal Years								_	
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Low Maintenance Rotor	Hub										
0-00-00-0000	Operational	0.0	0.0	0.0	3.7	12.3	9.6	13.0	11.4	12.6	62.6
Engine Fire Extinguisher	(Halon Replacement)										
0-00-00-0000	Operational	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.4	26.9	43.5
Totals		320.0	182.4	251.4	382.2	522.1	535.3	595.7	480.5	4634.3	7903.9

MODIFICATION TITLE: Engine Filtration System [MOD 3] 1-93-01-0807

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Pr Yr		FY 2	2001			FY 2	2002			FY 200	13			FY 200)4			FY 2005	5	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
										3	3	3	4	4	4	5	4	5	5	5
										3	3	3	4	4	4	5	4	5	5	5
											_									
	FY 2	006			FY 2	2007			FY 20	08			FY 20)9			To		T	otals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Comp	lete			
6	6	7	7	6	6	6	6	6	6	7	7	6	7	7	7		152			300
6	6	7	7	6	6	6	6	6	6	7	7	6	7	7	7		152			300
TATION:	. (Contract			ADMINI	STRATIV	E LEAD	ГІМЕ:	4	Months		PRO	ODUCT	ION LEA	DTIME:	12 N	1onths			
	F	FY 2002	O	ct 01			FY 2003	Jan 03				FY	2004	Jan 04	ļ					
FY 2002 Oct 02							FY 2003	Jan 04				FY	2004	Jan 05	;					
	Totals 1 6 6	FY 2 1 2 6 6 6 6 TTATION:	FY 2006 1 2 3 6 6 7 6 6 7 TATION: Contract FY 2002	FY 2006 1 2 3 4 6 6 7 7 6 6 7 7 TATION: Contract FY 2002 O	Totals 1 2 3 4 FY 2006 1 2 3 4 1 6 6 7 7 6 6 6 7 7 6 TATION: Contract FY 2002 Oct 01	Totals 1 2 3 4 1 FY 2006 FY 2006 1 2 3 4 1 2 6 6 7 7 6 6 6 6 7 7 6 6 TATION: Contract FY 2002 Oct 01 ADMINI	Totals 1 2 3 4 1 2 FY 2006 FY 2007 1 2 3 4 1 2 3 6 6 7 7 6 6 6 6 6 7 7 6 6 6 TATION: Contract FY 2002 Oct 01 ADMINISTRATIVE ADMINIS	Totals 1 2 3 4 1 2 3 FY 2006 FY 2007 1 2 3 4 1 2 3 4 6 6 7 7 6 6 6 6 6 6 7 7 6 6 6 6 TATION: Contract FY 2002 Oct 01 ADMINISTRATIVE LEAD FY 2003	Totals 1 2 3 4 1 2 3 4 FY 2006 FY 2007 1 2 3 4 1 2 3 4 1 6 6 7 7 6 6 6 6 6 6 6 6 7 7 6 6 6 6 6	Totals 1 2 3 4 1 2 3 4 1 FY 2006 FY 2007 FY 20 1 2 3 4 1 2 3 4 1 2 6 6 7 7 6 6 6 6 6 6 6 6 6 7 7 6 6 6 6	Totals 1 2 3 4 1 2 3 4 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Totals 1 2 3 4 1 2 3 4 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3 4 1 2 3 3 4 1 3 3 3 3 3 4 3 3 3 3 3 4 3 3 3 3	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 5 3 3 3 3 4 4 4 4 5 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 4 1 4 4 5 4 4 1 5 4 1 1 1 1 1 1 1 1	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	Totals 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 4 4 5 4 5 5 5 5 6 6 6 6 7 7 7 6 6 6 6 6 6 6 6 6

Date:

February 2002

MODIFICATION TITLE (Cont): Engine Filtration System [MOD 3] 1-93-01-0807

	FY	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
B-Kit Quantity					15	3.8	16	5.2	16	5.4	16	5.5	16	5.6					79	25.5
A-Kits			20	0.2	15	0.2	180	2.0	85	1.0									300	3.4
Logistics								0.3		0.4		0.7		0.8		0.9				3.1
PM Support						0.1		0.4		0.3		0.3		0.3		0.3				1.7
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits							9	0.1	11	0.1									20	0.2
FY 2002 Equip Kits									6	0.0	9	0.1							15	0.1
FY 2003 Equip Kits											10	0.1	26	0.2	24	0.2	120	0.9	180	1.4
FY 2004 Equip Kits																	85	0.7	85	0.7
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0	9	0.1	17	0.1	19	0.2	26	0.2	24	0.2	205	1.6	300	2.4
Total Procurement Cost		0.0		0.2		4.1	-	8.0		7.2	-	6.7		6.9		1.4		1.6		36.1

MODIFICATION TITLE: Extended Range Fuel System [MOD 4] 1-97-01-822

MODELS OF SYSTEM AFFECTED: CH-47D CHINOOK

DESCRIPTION/JUSTIFICATION:

Type of Improvement - Improved Operational Capability. The Extended Range Fuel System (ERFS) provides the CH-47D with up to 2400 gallons of auxiliary fuel for worldwide self-deployment or tactical forward area refueling. The typical ERFS installation includes three 800-gallon auxiliary fuel tanks fitted with crashworthy self-sealing bladders, pressure refueling capability, and fuel quantity probes. For mission flexibility, one, two, or three auxiliary fuel tanks can be installed. The B - Kit system components include tank assemblies, a fuel control panel, individual tank restraint systems, interconnecting self-sealing fuel hoses, fuel vent hoses, electrical cables, and a Forward Area Refueling Equipment (FARE) kit. The FARE kit provides the necessary components to permit tactical forward area refueling of combat weapons systems at two refueling points 200 feet from the helicopter. The A - Kit is the airframe modification kit. The ERFS can be installed or removed by a crew of four in less than 30 minutes by hand without the use of tools. National Guard Dedicated Procurement has funded procurement of 129 A-Kits, and 14 B-kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production Contract Award - Aug 98 Hardware Delivery - Jan 99 Testing Completed - Jun 99 Field Installation - Jun 99 First Unit Equipped - Sep 99

Installation	Sched	lu.	le:
--------------	-------	-----	-----

Inputs Outputs

Pr Yr		FY 2	001			FY 2	2002			FY 2	2003			FY :	2004			FY:	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
148	30	30	30	30	25	25	25	23	18	16	16	16								
148	30	30	30	30	25	25	25	23	18	16	16	16								

		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
nputs																		432
Outputs																		432

METHOD OF IMPLEMENTATION:	Contract		ADMINISTRATIVE LEADTI	ME:	4 Months	PRODUCTION	ON LEADTIME:	6 Months
Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03		FY 2004	Jan 04	
Delivery Date:	FY 2002	Jul 02	FY 2003	Jul 03		FY 2004	Jul 04	

Date:

February 2002

MODIFICATION TITLE (Cont): Extended Range Fuel System [MOD 4] 1-97-01-822

	FY :	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	°C	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
ERFS II B-Kit	26	14.2	8	5.4	25	16.7	25	16.5	23	15.5									107	68.3
ERFS II A-Kit	177	2.1	60	0.8	66	0.9													303	3.8
Logistics		1.5		0.4		0.3		0.2												2.4
PM Support		0.6		0.3		0.4		0.4		0.3										2.0
Installation of Hardware																				
FY 2000 & Prior Equip Kits	148	1.5	120	1.2	38	0.4													306	3.1
FY 2001 Kits					60	0.6													60	0.6
FY 2002 Equip Kits							66	0.5											66	0.5
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment	148	1.5	120	1.2	98	1.0	66	0.5		0.0		0.0		0.0		0.0		0.0	432	4.2
Total Procurement Cost		19.9		8.1		19.3		17.6		15.8		0.0		0.0		0.0		0.0		80.7

INDIVIDUAL MODIFICATION Date:

MODIFICATION TITLE: Engine Upgrade to T55-GA-714A Configuration [MOD 5] 1-96-01-0828

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

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

	Pr Yr		FY 2	2001			FY 2	2002			FY 2	003			FY 200	04			FY 20	05	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	67	16	16	16	17	9	9	8	8	13	14	14	14	10	10	10	11	12	12	13	13
Outputs	67	16	16	16	17	9	9	8	8	13	14	14	14	10	10	10	11	12	12	13	13

		FY:	2006			FY 20	07			FY 20	008			FY 2	2009		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	17	17	17	18	7	7	7	8	17	15								442
Outputs	17	17	17	18	7	7	7	8	17	15								442

METHOD OF IMPLEMENTATION:	Contract		ADMINISTRATIVE LEADTIM	IE:	4 Months	PRODUCTI	ON LEADTIME:	18 Months
Contract Dates:	FY 2002	Jan 02	FY 2003	Jan 03		FY 2004	Jan 04	
Delivery Date:	FY 2002	Jun 03	FY 2003	Jun 04		FY 2004	Jun 05	

Installation Schedule:

February 2002

Date:

February 2002

MODIFICATION TITLE (Cont): Engine Upgrade to T55-GA-714A Configuration [MOD 5] 1-96-01-0828

	FY 2	2000																		
	and l	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
New Engines	287	187.3	91	76.7	104	98.0	141	108.6	136	107.4	168	135.7	154	126.7	69	57.9			1150	898.3
Engine Fielding Kits	257	33.2	93	8.8	84	10.2	108	11.9	121	13.3	142	15.8	79	9.1					884	102.3
Airframe Kits	131	15.3	102	4.3	42	5.3	48	5.5	48	5.6	48	5.7	23	2.8					442	44.5
PM Admin Support		7.6		4.3		5.4		5.9		5.9		5.6		5.1		3.9		1.7		45.4
Logistics		18.2		2.7		3.8		5.5		5.5		5.2		5.5		0.9		1.7		49.0
Installation of Hardware																				
FY 2000 & Prior Equip Kits	67	2.3	58	2.4	6	0.3													131	5.0
FY 2001 Kits			7	0.3	28	1.2	55	3.5	12	0.8									102	5.8
FY 2002 Equip Kits									29	1.9	13	0.9							42	2.8
FY 2003 Equip Kits											37	2.5	11	0.7					48	3.2
FY 2004 Equip Kits													48	3.3					48	3.3
FY 2005 Equip Kits													10	0.7	29	2.0	9	0.6	48	3.3
FY 2006 Equip Kits																	23	1.6	23	1.6
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment	67	2.3	65	2.7	34	1.5	55	3.5	41	2.7	50	3.4	69	4.7	29	2.0	32	2.2	442	25.0
Total Procurement Cost		263.9		99.5		124.2		140.9		140.4		171.4		153.9		64.7		5.6		1164.5

								INDIV	DUAL M	ODIFIC	CATION					Date:		Februa	ry 2002			
MODIFICATION TITLE:	CH-47D	Flight Si	mulator (Jpgrade [MOD 8]																	
MODELS OF SYSTEM A	FFECTEI	D: CH-47	7D and T	rainers																		
DESCRIPTION/JUSTIFIC	CATION:																					
Type of Improvement remaining four simu resulting in negative	ators no	t funde	d by otl	her sour	ces. Ad	lditional	lly, airc	raft con	currency	modif	ications	to the s	simulato	r have f	allen w	ell beh	ind the	actual (CH-47	D ai	rcraft,	
DEVELOPMENT STATU	S/MAJOF	R DEVEL	OPMEN	T MILES	TONES:																	
Installation Schedule:	D. W		TX.	2001			TX.	2002			TX	2002			T77.7	2004				EX. 20	20.5	
	Pr Yr Totals	1	F Y 2	2001	4	1	F Y 2	2002	4	1	FY :	2003	4	1	FY .	2004	. 4		1	FY 20 2)US 3	4
Inputs Outputs	10000		_			-	_			-	_	J		-	_					_	,	·
		EV.	2006			EX.	2007			EV	2000			TX/	2009			Т				T. (.1.
	1	FY 2	2006	4	. 1	FY.	2007	4	1	FY.	2008	4	1	FY .	2009	2	,	Tomplet				Totals
Inputs Outputs	_	_	-			_	_			_		·		_				r	-			0 0
METHOD OF IMPLEME Contract Dates: Delivery Date:	NTATION		Contract FY 2002 FY 2002	J	an 02 Dec 02	ADMINI	STRATI	VE LEAD FY 2003 FY 2003	TIME: Jan Dec	03	4 Months	3		PRODUC FY 2004 FY 2004	CTION LI Jan De		Œ:	12 Moi	nths			

Date:

February 2002

MODIFICATION TITLE (Cont): CH-47D Flight Simulator Upgrade [MOD 8]

		2000																		
		Prior	FY:		FY 2		FY 2		FY 2		FY 2			2006		2007		C	TO	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Upgrade					1	5.0	1	5.0	2	10.2									4	20.2
Verification						0.4														0.4
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		5.4		5.0		10.2		0.0		0.0		0.0		0.0		20.6

MODIFICATION TITLE: CH-47F [MOD 9] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION/JUSTIFICATION:

The CH-47F is a rebuild program with selected upgrades. This program extends airframe service life, introduces an open electronic architecture that is compatible with the Army XXI digitized battlefield, and reduces Operating and Support (O&S) cost. This heavy lift helicopter program will be based on a recapitalization approach with a common cockpit configuration. The airframe will be rebuilt, mission capability improved, and vibrations reduced through airframe stiffening to provide for long term O&S cost reductions. Continued support, coverage, and sustainment of Maneuver, Fire Support, Air Defense, and Survivability mission areas will be provided by the CH-47F. Its mission is transportation of ground forces, class III/class V supplies, and battle critical cargo in support of all future contingencies. A service life extension program, the CH-47F will sustain the aging CH-47D fleet and bridge the gap until the development of a follow-on aircraft. It will be fielded as a direct replacement for 301 of the 431 CH-47D fleet and 36 Special Operations Aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:																					
	Pr Yr		FY :	2001			FY 2	2002			FY 20	03			FY	2004			FY 2	2005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4 1	2	3	3 4
Inputs																					
Outputs																					
		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4	Complete			
Inputs																					0
Outputs																					0
METHOD OF IMPLEM	ENTATION	J:	contract			ADMINI	STRATIV	VE LEAD	TIME:		6 Months			PRODUC	CTION L	EADTIN	ИE:	18 Month	S		
Contract Dates:			FY 2002					FY 2003	Dec	: 02				FY 2004	De	ec 03					
Delivery Date:			FY 2002					FY 2003						FY 2004	Se	p 04					

Date:

February 2002

MODIFICATION TITLE (Cont): CH-47F [MOD 9] 0-00-00-0000

			,																	
		2000 Prior	FY 2	2001	FY 2	2002	FY 2	2003	FV '	2004	FV ′	2005	FV '	2006	FV ′	2007	Т	C	TOT	ΓΔΙ
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E					. ,		. ,						. ,				- 7		. ,	
Procurement																				
Recurring Production							7	71.3	17	232.2	19	227.1	26	300.2	24	270.8	244	2993.6	337	4095.2
Other Flyaway				42.0		82.3		82.9		25.2		26.7		27.0		25.3		250.2		561.6
Training Devices				11.0		4.0		14.4		14.3		37.2		8.5		6.0		167.1		262.5
Other Support				13.1		8.6		9.8		12.6		12.8		9.5		42.8		401.3		510.5
-																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
		0.5		0.5		0.5		0.6		0.5		0.5		0.5		0.5		0.6		0.5
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		66.1		94.9		178.4		284.3		303.8		345.2		344.9		3812.2		5429.8

								INDIVI	DUAL N	IODIFIC	ATION					Date:		February '	2002		
MODIFICATION TITLE:	Compon	ent Recap	oitalizatio	n [MOD 1	0-00-0	0-0000															
MODELS OF SYSTEM A	FFECTEI	D: CH-47	7F																		
DESCRIPTION/JUSTIFIC	ATION:																				
The concept of RECA carry forward the pre Recap components w Recapped based on DA prescribed 10 years.	sent cor vill inclu the func	ncept of ide Pow tional a	Inspect er Trair nalysis	Repair , Auxil complet	Only A iary systed on a	s Neces tems , E Il the di	ssary to Electrica screte si	remove ıl / Elec ubsyster	and rep tronic, I ms. The	olace int Hydraul e analys	ternal co ic, Pneu	mponer matic, S	nts to m Structur	eet a ze	ro time, Power p	zero m lant sys	ile like i tems. A	new me	trics. n totali	ty will b	oe .
DEVELOPMENT STATU	S/MAJOI	R DEVEL	OPMEN'	T MILES	TONES:																
Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY 2	2004			FY 2	.005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs Outputs																					
		FV ′	2006			FV ′	2007			FV '	2008			FV ′	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	С	omplete			Totals
Inputs	_	_	_	·		_	_		_	_	_		_	_				·F			0
Outputs																					0
METHOD OF IMPLEMENT Contract Dates:	NTATION		Contract FY 2002			ADMINI	STRATIV	VE LEAD FY 2003	TIME:		0 Months			PRODUC FY 2004	CTION LI	EADTIMI	Ξ:	0 Months			
Delivery Date:			FY 2002					FY 2003						FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): Component Recapitalization [MOD 10] 0-00-00-0000

	FY 2	2000	1																	
		Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Recapitalization							7	25.6	17	51.9	19	43.8	26	68.5	24	49.7	244	775.4	337	1014.9
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		0.0		0.0		0.0		25.6		51.9		43.8		68.5		49.7		775.4		1014.9

Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ite:	F	February 2002							
Appropriation/Budget Ac Aircraft Procurement, Army		eraft				P-1 Item Nom CH-		IELICOPTER I	MODS(Adv Pı	roc) (AA0252))						
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:										
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005 FY 2006 FY 2007 To Complete Total Prog									
Proc Qty							Y 2003 FY 2004 FY 2005 FY 2006 FY 2007 To Complete Total Prog										
Gross Cost																	
Less PY Adv Proc																	
Plus CY Adv Proc	940.0	0.0	0.0	0.0	17.7	21.2	22.9	31.2	28.9	31.3	283.4	1376.6					
Net Proc (P-1)	940.0			0.0	17.7	21.2	22.9	31.2	28.9	31.3	283.4	1376.6					
Initial Spares																	
Total Proc Cost	940.0			0.0	17.7	21.2	22.9	31.2	28.9	31.3	283.4	1376.6					
Flyaway U/C																	
Wpn Sys Proc U/C																	

The CH-47F will be a modification to the current CH-47D helicopter to extend airframe service life, introduce an open electronic architecture that is compatible with the Army XXI digitized battlefield, and reduce Operating ad Support (O&S) cost. This heavy lift helicopter program will be based on a remanufacture approach. The airframe will be rebuilt, mission capability improved, and vibrations reduced through airframe stiffening to provide for long term O&S cost reductions. Continued support, coverage, and sustainment of Maneuver, Fire Support, Air Defense, and Survivability mission areas will be provided by the CH-47F. Its mission is transportation of ground forces, class III/class V supplies, and battle critical cargo in support of all future contingencies. A service life extension program, the CH-47F will sustain the aging CH-47D fleet and bridge the gap until the development of a follow-on aircraft. It will be fielded as a direct replacement for 277 of the CH-47D fleet. The budget line for SSN AA0254 has been consolidated with AA 0252 starting in FY02. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 03 funding procures Advanced Procurement to support deliveries of avionics and airframe components. Long Lead is required to provide funding for those parts, tooling, test equipment, and materiels which are lead time critical to the end item modification. Long lead funding is required to preserve the planned helicopter delivery schedule.

Advance Procurement Requirem	nents A	analys	is-Fundir	ng (P10A))	First System	Award Date:		First System (Completion Dat	te:	Date:	ebruary 2002	
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /2/Modification of a		V		8 (P-1 Line I CH-4	tem Nomencla 17 CARGO HI	ture / Weapon S ELICOPTER M	System ODS			-	
							(\$	in Millions)						
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
Avionics Airframe	13 15	14				0.0	11.7 6.0	13.6 7.6	14.7	20.0 11.1	18.6 10.3	20.2 11.1	182.8 100.6	281.6 155.0
Total Advance Procurement			0.0	0.0	0.0	0.0	17.7	21.2	22.9	31.2	28.8	31.3	283.4	436.6

Date: Advance Procurement Requirements Analysis-Funding (P10B) February 2002 Appropriation/Budget Activity/Serial No: P-1 Line Item Nomenclature / Weapon System Aircraft Procurement, Army /2/Modification of aircraft CH-47 CARGO HELICOPTER MODS (\$ in Millions) 2002 2003 Quantity PLT Per Unit Contract Total Contract Total Assembly Cost Qty **Forcast Date Cost Request** Qty **Forcast Date** Cost Request (mos) End Item Quantity: 13 17 11.7 17 13.6 Avionics 1.4 Jan Jan 15 Airframe 1.0 17 Jan 6.0 17 Jan 7.6 **Total Advance Procurement** 17.7 21.2

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	nte:	F	February 2002					
Appropriation/Budget Act Aircraft Procurement, Army /2		craft				P-1 Item Nom UTI		O AIRPLANE	MODS (AA02	70)					
Program Elements for Coo	le B Items:			Code:	Other Relat	ed Program Ele	ements:								
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 To Complete Total Prog									
Proc Qty						FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 To Complete Total Prog									
Gross Cost	26.0	9.2	12.0	.0 10.8 16.0 17.0 10.6 10.6 14.2 10.2 136.6											
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	26.0	9.2	12.0	10.8	16.0	17.0	10.6	10.6	14.2	10.2		136.6			
Initial Spares															
Total Proc Cost	26.0	9.2	12.0	10.8	16.0	17.0	10.6	10.6	14.2	10.2		136.6			
Flyaway U/C															
Wpn Sys Proc U/C															

This modification updates and modernizes the C-12, RC-12, UC-35, C-23, and C-26 aircraft communication, navigation, surveillance and safety equipment to current and evolving international standards. In addition it provides for the procurement and installation of military unique equipment such as Joint Precision Aircraft Landing System (JPALS) and Joint Tactical Radio System (JTRS) components. These modifications ensure continued worldwide deployment capability, and safe operations into the 21st Century.

Justification:

The FY 03 funds will be used for communications, navigation, and surveillance equipment that is supportive of future Air Traffic Management requirements. In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrade will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirements for new avionics equipment continue, aircraft delays and airspace exclusion are likely for aircraft not properly equipped. Upgrade of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving C-12 availability for mission requirements. These aircraft support Legacy and Legacy-to-Objective Systems which relate to the Transformation Campaign Plan.

Exhibit P-40M	I, Budget Item Justific	ation Sheet				Date	; :	F	ebruary 2002		
Appropriation/Budget Act Aircraft Procurement, A	tivity/Serial No: Army /2/Modification of aircraft				P-1 Item Nomeno	elature	UTILITY/CA	RGO AIRPLANE	MODS (AA0270)		
Program Elements for Co	de B Items:		Code:	Other Related	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Avionics System Cock	pit Upgrade										
1-96-01-0612	U	47.2	11.7	16.1	17.0	10.7	10.7	14.3	10.4	0.0	138.1
Totals		47.2	11.7	16.1	17.0	10.7	10.7	14.3	10.4	0.0	138.1

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

MODELS OF SYSTEM AFFECTED: C-12F3, D1, D2, T, J, R; RC-12K, N, P, Q; C-26; UC-35A, B; C-23B, B+

DESCRIPTION/JUSTIFICATION:

This effort will modernize 6 types of Fixed Wing aircraft communications, navigation, surveillance, and safety equipment to current international requirements, enhance fleet standardization, allow worldwide deployments and continued safe operations into the 21st Century. As currently equipped, the aircraft will not be suitable for worldwide deployment nor capable of using modern navigation and air traffic control facilities. The following equipment is included in this upgrade: Flight Management System, Displays, Terrain Awareness Warning System, 8.33kHz radios, APX 100 Mode S upgrade, Satellite Communications (SATCOM), Traffic Alert Collision Avoidance System II, Flight data recorder, data link capability, and Communications Management Unit. The preceding components reflect critically needed items. However, Air Traffic Management and DOD Navigation Warfare requirements are evolving and will require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Additionally, kit configurations vary based on the aircraft that they will be installed on. Consequently, kit and installation unit cost will vary significantly from year to year.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is not required for Avionics System Cockpit Upgrade.

Installation Schedule:																					
	Pr Yr		FY 20	001			FY 2	002			FY 20	03			FY 20	04			FY 2	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	279		14	14	14			12	12	14	18	18	22		16	17	17	12	14	16	16
Outputs	279				14	14	14		12	12	14	18	18	22		16	17	17	12	14	16
		FY 2	.006			FY 20	007			FY 20	008			FY 20	009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs	11	12	13	13	6	7	8	8													603
Outputs	16	11	12	13	13	6	7	8	8												603
METHOD OF IMPLEME	NTATION	ſ:			A	ADMINIS	TRATIV	E LEAD	TIME:	3	Months		PI	RODUCT	ΓΙΟΝ LEA	DTIME:	5	Months			
Contract Dates:]	FY 2002	Feb	02]	FY 2003	Dec	02			FY	Y 2004	Dec 0)3					
Delivery Date:]	FY 2002	July	02		1	FY 2003	May	03			FY	Y 2004	May	04					

Date:

February 2002

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

	FY 2	2000																		
	and 1	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	ΊΑL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits	279	38.8	42	8.3	38	12.7	58	14.8	50	7.9	58	7.5	49	11.5	29	8.1			603	109.6
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data				0.1		0.1		0.1		0.1		0.1		0.1		0.1				0.7
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits	279	8.4																	279	8.4
FY 2001 Kits			42	3.3															42	3.3
FY 2002 Equip Kits					24	3.3													24	3.3
FY 2003 Equip Kits							72	2.1											72	2.1
FY 2004 Equip Kits									50	2.7									50	2.7
FY 2005 Equip Kits											58	3.1							58	3.1
FY 2006 Equip Kits													49	2.7					49	2.7
FY 2007 Equip Kits															29	2.2			29	2.2
TC Equip- Kits																				
Total Installment	279	8.4	42	3.3	24	3.3	72	2.1	50	2.7	58	3.1	49	2.7	29	2.2		0.0	603	27.8
Total Procurement Cost		47.2		11.7		16.1		17.0		10.7		10.7		14.3		10.4		0.0		138.1

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	I	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /		craft				P-1 Item Nom OH-	nenclature -58 MODS (<i>A</i>	A0400)				
Program Elements for Coo	de B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	323.2	0.1	0.5	0.9	0.5	0.5	0.5					326.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	323.2	0.1	0.5	0.9	0.5	0.5	0.5					326.1
Initial Spares	1.2											1.2
Total Proc Cost	324.4	0.1	0.5	0.9	0.5	0.5	0.5					327.3
Flyaway U/C												
Wpn Sys Proc U/C												

The OH-58A&C model helicopters are low silhouette, single rotor helicopters powered by a single gas turbine engine (T63-A-720) used for observation, scout (no weapons), and command and control. This is a single pilot aircraft with provisions for a second pilot and the capability to carry two passengers or cargo in the rear cargo area. The OH-58C is an upgraded OH-58A model with a more powerful transmission, navigational upgrades and state of the art instrumentation. The program provides for integration of the Single Channel Ground & Airborne Radio System (SINCGARS)-VHF-FM Radio, Combat Lighting for Night Vision, an External Three-Micron Engine Oil Filter, Global Positioning Systems. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

Programmed funds are for safety enhancements and/or operational improvements required to meet mission requirements until phase out. Failure to provide funding will result in the degradation of the aircraft and mission package, impacting safety, readiness and combat support capability.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ite:	F	ebruary 2002		
Appropriation/Budget Act Aircraft Procurement, Army /2		craft				P-1 Item Nom AIR		G RANGE MO	DS (AA0560))		
Program Elements for Coo	le B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	9.8	1.1	0.7	0.9	0.7	0.7	0.8	0.8	0.8	0.8		17.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.8	1.1	0.7	0.9	0.7	0.7	0.8	0.8	0.8	0.8		17.0
Initial Spares												
Total Proc Cost	9.8	1.1	0.7	0.9	0.7	0.7	0.8	0.8	0.8	0.8		17.0
Flyaway U/C												
Wpn Sys Proc U/C												

This modification updates and modernizes the C-20F, C-20E and C-37 aircraft communications, and navigation equipment, enhancing the aircraft's capability for worldwide deployments. Furthermore, the C-20 and C-37 aircraft will receive additional operational capability with the installation of Joint Precision Landing Systems (JPALS) and Joint Tactical Radio Systems (JTRS). These aircraft support the Army's executive flight detachment at the three star and above level.

Justification:

FY 03 funds will be used for upgrading C-20 Global Positioning Systems (GPS) and installation of navigation equipment needed to support the crew in meeting the demands of the future air navigation system. Funds will be used to meet evolving avionics requirements resulting from worldwide navigation transition to Global Positioning System (GPS) enroute and approach systems, and Chairman of the Joint Chief of Staff Master Navigation Plan requirements. The C-20 is a legacy system and the C-37 is a Legacy-to-Objective aircraft in the Transformation Campaign Plan.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Di	ate:	F	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /2		eraft				P-1 Item Nom LON	enclature NGBOW (AA	6670)				
Program Elements for Coo	le B Items:			Code:	Other Relate	ed Program Ele	ements:	SSNs AA66	607/6608, PE	23744 D508		
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1400.6	610.6	779.8	748.0	929.3	892.0	769.5	480.1	443.8	352.9	1948.2	9354.9
Less PY Adv Proc	164.2	36.9	42.8	37.5	44.8	26.2	29.7	14.2				396.3
Plus CY Adv Proc	201.1	42.8	37.5	44.8	26.2	29.7	14.2					396.3
Net Proc (P-1)	1437.5	616.5	774.6	755.2	910.8	895.5	754.0	465.9	443.8	352.9	1948.2	9354.9
Initial Spares	15.5	16.6	7.1	3.0	1.4	3.8	11.2	12.8	13.0	2.8	1.9	89.0
Total Proc Cost	1453.0	633.1	781.7	758.3	912.2	899.3	765.1	478.7	456.8	355.7	1950.1	9443.8
Flyaway U/C												
Wpn Sys Proc U/C												

The Longbow Weapon System (AH-64D) consists of a modified AH-64 airframe, a Fire Control Radar (FCR) mission kit and a Longbow HELLFIRE missile. Two hundred twenty-seven AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR mission kits. Those AH-64D aircraft fielded without the FCR mission kits will have the T700-GE-701 engines, but can accept the FCR mission kit with the addition of T700-GE-701C engines. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The weapon system will effectively engage and destroy advanced threat armor on the AirLand Battlefield of the 21st century. To be effective and survive on this future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures (CMs). Provides funding for the Modernized Target Acquisition Designation System/Pilot Night Vision System (M-TADS/PNVS), formally known as Second Generation FLIR, on 501 Longbow aircraft. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 03 funds buys 74 aircraft, including associated support equipment, tooling, government furnished equipment (GFE), training devices, reman/retrofit of reliability/safety fixes, focused component recap on Longbow aircraft. Funds continued FCR intergration, logistical support requirements, and obsolescence issue resolution. The 18 October 95 Acquisition Decision Memorandum authorized Longbow Apache to proceed into production and award of single year contract not to exceed quantity of 18 aircraft in FY96. A Multi-Year II Contract (FY01-FY05) was signed on 29 September 2000. Airframe quantities and funding reflect the multi-year (MY) scenario. Multiyear contracts for the FCR mission kit were signed in Nov 97. Quantities and funding reflect this multiyear scenario. 501 AH-64A Apaches will be remanufactured to the AH-64D configuration with 227 Longbows being equipped with the FCR kits and 701C engines.

Initial spares includes Airframe, FCR, and M-TADS components.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	Di	nte:	F	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /:		eraft				P-1 Item Nom LON		CHE MODS (A	AA6607)			
Program Elements for Coo	de B Items:			Code:	Other Relate	ed Program Ele	ements:	SSNs AA66	670/6608, PE2	23744 D508		
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	92	66	74	52	60	74	64	19				501
Gross Cost	1073.5	503.3	652.4	619.6	809.8	866.9	754.5	475.1	438.8	347.9	1943.2	8484.9
Less PY Adv Proc	106.7	26.4	31.8	26.5	36.1	26.2	29.7	14.2				297.6
Plus CY Adv Proc	133.1	31.8	26.5	36.1	26.2	29.7	14.2					297.6
Net Proc (P-1)	1099.8	508.7	647.1	629.3	799.8	870.4	738.9	460.9	438.8	347.9	1943.2	8484.9
Initial Spares	15.5	16.6	7.1	3.0	1.4	3.8	11.2	12.8	13.0	2.8	1.9	89.0
Total Proc Cost	1115.3	525.3	654.2	632.3	801.2	874.2	750.1	473.7	451.8	350.7	1945.1	8573.8
Flyaway U/C												
Wpn Sys Proc U/C		7.7	8.7	12.1	13.3	11.8	11.5	24.3				

DESCRIPTION:

The Longbow Weapon System (AH-64D) consists of a modified AH-64 airframe, a Fire Control Radar (FCR) mission kit and a Longbow HELLFIRE missile. Two hundred twenty seven (227) AH-64Ds will incorporate the General Electric T700-GE-701C engines for improved performance when carrying the FCR mission kits. Those AH-64D aircraft fielded without the FCR mission kits will have the T700-GE-701 engines, but can accept the FCR mission kit with the addition of T700-GE-701C engines. The Longbow Weapon System will provide the AH-64 with automatic target detection, classification, prioritization and a true fire-and-forget engagement capability, greatly increasing weapon system effectiveness and aircraft survivability. The weapon system will be employable day or night, in adverse weather and in obscurants. The weapon system will effectively engage and destroy advanced threat armor on the Air Land Battlefield of the 21st century. To be effective and survive on this future battlefield, the attack helicopter team will rapidly engage multiple targets with minimum exposure time, and deploy a system that is inherently resistant to threat countermeasures. Provides funding for Modernized Target Acquisition Designation System/Pilot Night Vision System (M-TADS/PNVS), formally known as Second Generation FLIR, on 501 Longbow aircraft. This system supports the Legacy transition path of the Transformation Campaign Plan.

Justification:

FY 03 procures 74 aircraft, including associated support equipment, tooling, government furnished equipment (GFE), training devices, reman/retrofit reliability and safety fixes, and focused component recap on Longbow aircraft. 501 AH-64A Apaches will be remanufactured to the AH-64D configuration with 227 Longbow aircraft being equipped with the FCR kits and 701C engines.

AA6670 (AA6607) LONGBOW APACHE MODS Item No. 15 Page 2 of 12

Exhibit P-40 Budget Item Justification Sheet

	FY 00 / 01 BUDGET PR	OD	UCTION	SCH	IEDUL	E			Item N NGBOV				DDS (A	AA66	507)									Date:	:		Fe	bruar	ry 20	02			
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		1	FY 02	A	60	0	60																										60
		1	FY 03	A	74	0	74																										74
Fii	re Control Radar (FCR)																												$oldsymbol{ol}}}}}}}}}}}}}}$				
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R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					10			3			28			31		4							
1	Boeing, Mesa, AZ		48.00		72.00	120.00	36				RDER				2			3			15			18		4							
2	Longbow Limited Liability, Orlando, FL		48.00		72.00	120.00	36	:	2	INIT					10			2			28			30		4							
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2	Longbow Limited Liability, Orlando, FL		48.00		72.00	120.00	36	2	2	INIT					10			2			28			30		4							
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1	Boeing, Mesa, AZ		48.00		72.00	120.00	36	1	1		RDER		\neg		2			3			15			18		1						
2	oeing, Mesa, AZ ongbow Limited Liability, Orlando, FL		48.00		72.00	120.00	36	2	,	INIT					10			2			28			30								
								4	۷	REO	RDER				2			3			13			16								
										INIT	IAL																					
										REO	RDER																					
										INIT																4						
										REO	RDER		_													4						
Ш										INIT			_													4						
										REO	RDER																					

Exhibit P-40M	I, Budget Item Justific	ation Sheet				Date	: :	F	ebruary 2002		
Appropriation/Budget Ac Aircraft Procurement,	tivity/Serial No: Army /2/Modification of aircraft				P-1 Item Nomeno	lature	LONGBOW A	APACHE MODS (AA6607)		
Program Elements for Co	de B Items:		Code:	Other Related	Program Elements:		SSNs AA6670/	6608, PE23744 D	508		
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Longbow Apache Mod	ls										
NA	NA	2064.1	593.1	773.6	840.8	724.7	461.0	438.7	347.9	1943.2	8187.1
Totals		2064.1	593.1	773.6	840.8	724.7	461.0	438.7	347.9	1943.2	8187.1

MODIFICATION TITLE: Longbow Apache Mods [MOD 1] NA

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION/JUSTIFICATION:

The Longbow Weapon System (AH-64D) consists of a modified AH-64A airframe, a Fire Control Radar (FCR) mission kit and a Longbow Hellfire missile. The AH-64 aircraft will be modified with those changes necessary to effectively and efficiently integrate the Fire Control Radar. These changes consist of increased electrical power, expanded forward avionics bays, increased cooling, upgraded processors, MANPRINT crew station and 701C engines. These upgrades will significantly enhance warfighting capability and battlefield survivability by providing for advanced digitized avionics and the employment of true fire and forget engagement capability. Provides funding for Modernized TADS/PNVS (M-TADS/PNVS), formally known as Second Generation FLIR, on 501 aircraft starting in FY03. Procures reman/retrofit reliability and safety fixes, and focused component recap on Longbow aircraft. Procures 22 Longbow Crew Trainers (LCTs), one Longbow Collective Training System (LCTS), maintenance trainers, and Tactical Engagement Simulation System (TESS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

MYII Contract Award, 29 September 00 Funding Action for Lot VII, 31 Dec 01

Installation Schedule:

	Pr Yr		FY	2001			FY 2	2002			FY 2	2003			FY	2004			FY 2	2005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3 4	1	2	3	4
Inputs																					
Outputs																					
		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009			То			Totals
	1	2	3	4	. 1	2	3	4	1	2	3	4	1	2	3	4	1 (Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEME	NTATION	N:				ADMINI	STRATIV	/E LEAD	TIME:		3 Months			PRODUC	CTION L	EADTIM	IE:	15 Month	ıs		
Contract Dates:			FY 2002	Ι	Dec 01			FY 2003	Dec	02				FY 2004	De	c 03					
Delivery Date:			FY 2002	N	/ar 03			FY 2003	Ma	r 04				FY 2004	Ma	ır 05					

Date:

February 2002

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

	FY	2000																		
	and Prior		FY :	2001	FY 2002		FY :	FY 2003		FY 2004		2005	FY 2	2006	FY 2007		TC		TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	232		52		60		74		64		19								501	
Recurring		1301.2		333.6		383.4		461.2		397.3		146.5								3023.2
Other Flyaway		314.2		122.1		231.0		213.9		144.2		60.7		137.7		82.3		122.4		1428.5
Training Devices		261.6		81.0		95.1		88.9		73.9		49.2		21.3						671.0
Other Support		187.1		56.4		64.1		53.3		43.9		52.6		37.9		52.6		1820.8		2368.7
Modernized TADS/PNVS								23.5		65.4		152.0		241.8		213.0				695.7
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		2064.1		593.1		773.6		840.8		724.7		461.0		438.7		347.9		1943.2		8187.1

Exh	ibit P-40	, Budge	Date: February 2002											
Appropriation/Budget Acti Aircraft Procurement, Army /2.		eraft				P-1 Item Nomenclature APACHE LONGBOW FCR (AA6608)								
Program Elements for Cod	Code:	Other Relate	Related Program Elements: SSNs AA6670/6607, PE23744 D508											
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog		
Proc Qty	41	40	45	44	57							227		
Gross Cost	327.1	107.4	127.4	128.4	119.6	25.1	15.0	5.0	5.0	5.0	5.0	870.0		
Less PY Adv Proc	57.5	10.6	11.0	11.1	8.6							98.7		
Plus CY Adv Proc	68.1	11.0	11.1	8.6								98.7		
Net Proc (P-1)	337.7	107.7	127.5	126.0	111.0	25.1	15.0	5.0	5.0	5.0	5.0	870.0		
Initial Spares														
Total Proc Cost	337.7	107.7	127.5	126.0	111.0	25.1	15.0	5.0	5.0	5.0	5.0	870.0		
Flyaway U/C														
Wpn Sys Proc U/C		2.7	2.8	2.9	1.9									

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

Justification:

FY 03 funds continued FCR integration onto the Longbow aircraft, and address resolution of logistical support requirements and obsolescence issues. FCR quantities and funding reflects multiyear procurements for FY 98-02. 501 AH-64A Apaches will be remanufactured to the AH-64D configuration with 227 Longbow aircraft being equipped with the FCR mission kits and 701C engines.

Exhibit P-40M	, Budget Item Justific	Dat	Date: February 2002												
Appropriation/Budget Act Aircraft Procurement, A	ivity/Serial No: Army /2/Modification of aircraft	P-1 Item Nomenclature APACHE LONGBOW FCR (AA6608)													
Program Elements for Cod	de B Items:	Code:	Other Related	Program Elements:		SSNs AA6670/	6607, PE23744 D	508		Total 771.4 771.4					
Description Fiscal Ye															
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total				
Apache Longbow FCR															
NA	NA	482.9	117.4	111.0	25.1	15.0	5.0	5.0	5.0	5.0	771.4				
Totals		482.9	117.4	111.0	25.1	15.0	5.0	5.0	5.0	5.0	771.4				

MODIFICATION TITLE: Apache Longbow FCR [MOD 1] NA

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION/JUSTIFICATION:

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Milestone 1B (DAB) Jul 89
Milestone II (DAB) Dec 90
Milestone III (DAB) Oct 95
Lot 1 contract award Mar 96
First Production Delivery Mar 97
Multi-year contract awarded Nov 97

Lot V contract award 28 Dec 01

Installation Schedule

	Pr Yr		FY 2	2001		FY 2002				FY 2003			FY 2004				FY 2005				
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3 .	4 1	2	3	4
Inputs																					
Outputs																					
																	_				
		FY 2006				FY 2007				FY 2008				FY 2009				То		To	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4	Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEME	METHOD OF IMPLEMENTATION: Modification				ADMINI	STRATIV	/E LEAD	TIME:	3 Months			PRODUCTION LEADTIME: 13 Mor					s				
Contract Dates:	FY 2002			Γ	Dec01 FY 2003									FY 2004							
Delivery Date: FY 2002		FY 2002	J	an 03			FY 2003						FY 2004								

Date:

February 2002

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

	FY '	2000	1																	
	•	Prior	FY:	2001	FY :	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Quantity	126		44		57														227	
Recurring		482.9		117.4		111.0														711.3
Other Flyaway																				
Other								25.1		15.0		5.0		5.0		5.0		5.0		60.1
 Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		482.9		117.4		111.0		25.1		15.0		5.0		5.0		5.0		5.0		771.4
												2.0		2.0		2.0		2.0		

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	nte:	I	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /		eraft				P-1 Item Nom LON		Proc) (AA667	0)			
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost												
Less PY Adv Proc												
Plus CY Adv Proc	201.1	42.8	37.5	44.8	26.2	29.7	14.2					396.3
Net Proc (P-1)	201.1	42.8	37.5	44.8	26.2	29.7	14.2					396.3
Initial Spares												
Total Proc Cost	201.1	42.8	37.5	44.8	26.2	29.7	14.2					396.3
Flyaway U/C												
Wpn Sys Proc U/C												

The Longbow program encompasses modification to 501 AH-64A Apaches as well as upgrades to the aircraft systems for the AH-64D series to efficiently and effectively integrate the Fire Control Radar (FCR) and the radar frequency (RF) missile. Longbow provides an adverse weather fire-and-forget missile capability that increases lethality and survivability. The Longbow Apache also retains the capability to fire the Semi-Active Laser Hellfire. The design enhancements increases operational capability of the crew and provides increased survivability and lethality. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP)

Justification:

FY 03 funds long lead items for AH-64D aircraft. Five hundred one (501) AH-64A Apaches will be remanufactured to the AH-64D configuration with 227 Longbow aircraft being equipped with the FCR and 701C engines. Long lead funding is required to provide funding for those parts, tooling, test, equipment, and materials which are lead time critical to the end item. Long lead funding is required to preserve the planned helicopter delivery schedule.

Advance Procurement Requirem	ents A	Analys	is-Fundir	ng (P10A))	First System	Award Date:		First System (Completion Da	ite:	Date:	ebruary 2002	
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /2/Modification of ai	rcraft						P-1 Line I LON	item Nomencla NGBOW	ture / Weapon S	System				
							(\$	in Millions)						
	PTL (mos)	When Rqd (mos)	Pr Yrs	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	To Comp	Total
End item Quantity Airframe GFE-FCR Kit	12 12	12 12	92 133.1 68.1	31.8 11.0	26.5 11.1	36.1 8.6	26.2	74 29.7	64 14.2	19				501 297.6 98.7
Total Advance Procurement			201.1	42.8	37.5	44.8	26.2	29.7	14.2	0.0	0.0	0.0	0.0	396.3

Date: Advance Procurement Requirements Analysis-Funding (P10B) February 2002 Appropriation/Budget Activity/Serial No: P-1 Line Item Nomenclature / Weapon System Aircraft Procurement, Army /2/Modification of aircraft LONGBOW (\$ in Millions) 2002 2003 Quantity PLT Per Unit Contract Total Contract Total Assembly Cost Qty **Forcast Date** Cost Request Qty **Forcast Date** Cost Request (mos) End Item Quantity: Airframe 74 31 Dec 01 26.2 64 Dec 02 29.7 12 **Total Advance Procurement** 26.3 29.8

 $FY02/03 \ advanced \ procurement \ funding \ represents \ longlead \ requirements \ for \ FY03/04 \ procurement \ quantities.$ Contract award 12/31/01

Advance Procurement Requirements Analysis-Execution (P10D)

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

P-1 Line Item Nomenclature / Weapon System LONGBOW

(\$ in Millions)

			2000				(\$ III WIIIIO	2001			20	02	20	003
	PTL (mos)	Contract Forecast Date		Total Cost Request	Actual Contract Cost	Qty	Contract Forecast Date		Total Cost Request	Actual Contract Cost		Contract Forecast Date	Qty	Contract Forecast Date
End item Quantity														
Airframe GFE-FCR Kit	12 12	Dec 99 Nov 99	Dec 99 Nov 99	26.5 11.1		60 57	Dec 00 Nov 00	Dec 00 Dec 00	36.1 8.6	36.1 8.6		31 Dec 01	64	Dec 02
Total Advance Procurement				37.5	37.5				44.8	44.8				

Exhi	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	I	February 2002		
Appropriation/Budget Activ Aircraft Procurement, Army /2/		craft				P-1 Item Nom UH-	nenclature -60 MODS (<i>A</i>	A0480)				
Program Elements for Code	e B Items:			Code:	Other Relat	ed Program Ele	ements:	0203744A/I	Project 504			
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	487.5	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		1974.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	487.5	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		1974.1
Initial Spares												
Total Proc Cost	487.5	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		1974.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description: Black Hawk System

Ext	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	nte:	F	ebruary 2002		
Appropriation/Budget Ac Aircraft Procurement, Army		eraft				P-1 Item Nom UH-		IAWK MODS	(AA0492)			
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:	0203744A/	Project 504			
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	478.4	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	478.4	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		
Initial Spares												
Total Proc Cost	478.4	21.2	12.7	25.4	68.0	41.9	180.0	239.6	461.3	436.7		
Flyaway U/C												
Wpn Sys Proc U/C												

The UH-60 BLACKHAWK will serve as the Army's utility helicopter in the objective force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, air cavalry, troop & equipment transport, command & control, and medical evacuation (MEDEVAC) in active and reserve component theater, corps, division, and Table of Distribution and Allowances (TDA) units. The UH-60 is joint force capable, provides 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60A entered service in fiscal year 1978 (FY78), and the newer model UH-60L in FY89. The Army continues to procure UH-60L helicopters today. The oldest UH-60As are now over 23 years old, and the average age of the UH-60A fleet is 18 years. This effort supports the Legacy-to-Objective (LO) transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 funding procures and installs the Crashworthy External Fuel System (CEFS), the Sealed Lead Acid Battery (SLAB) modification, the UH-60Q MEDEVAC kits on the fielded UH-60 fleet and initiates qualification of the Advanced Helicopter Transmission Lubricant (AHTL) which will lower Operations & Support (O&S) costs by reducing unscheduled maintenance. CEFS is a safety modification that reduces the risk of a post-crash fire. The SLAB battery modification replaces the existing maintenance intensive nickel cadmium battery with a new low cost, low maintenance, longer life battery that meets EPA environmental restrictions. The UH-60Q MEDEVAC kit upgrades a fielded UH-60A/L to an air ambulance configuration providing en-route patient treatment which is critical to patient survival. The UH-60M provides a common platform with the modernized air ambulance HH-60M MEDEVAC Mission Equipment Package (MEP). This program addresses current UH-60 fleet aging problems such as decreasing Operational Readines (OR) and increasing O&S costs, including all top-ten cost drivers, and provides a common, modernized platform for the UH-60 Utility and MEDEVAC fleet of the future. Other efforts under this budget line include special mission Search and Rescure (SAR) and firefighting (FIREHAWK) modifications targeted for Army National Guard units; replacement of Kapton wiring in four of the older 134 UH-60A aircraft; and completing installation of the Night Vision Goggle (NVG) modification.

Exhibit P-40M, Bu	ıdget Item Justificatio	on Sheet				Date	e:	F	ebruary 2002		
Appropriation/Budget Activity/S Aircraft Procurement, Army /2					P-1 Item Nomeno	lature	UH-60 BLAC	K HAWK MODS	-		
Program Elements for Code B Ite	ms:		Code:	Other Related	Program Elements:		0203744A/Proj	ect 504			
Description		Fiscal Years			_						
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Crashworthy External Fuel Sy	ystem (CEFS)										
TBD	Safety	0.0	3.0	21.3	10.3	12.5	14.2	19.7	18.9	41.5	141.4
Fire Hawk Kits											
TBD	Operational	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Sealed Lead Acid Battery (SI	.AB)										
1-94-01-1953	RAM	7.9	2.3	5.0	1.1	0.0	0.0	0.0	0.0	0.0	16.3
UH-60Q Medical Equipment	Package (MEP)										
TBD	Operational	1.0	0.0	30.0	29.0	30.1	57.9	0.0	0.0	0.0	148.0
Advanced Helicopter Transm	ission Lubricant										
TBD	RAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NVG Lighting Lower Consol	e										
1-90-01-1933	Operational/Safety	10.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7
Kapton Wiring Replacement											
TBD	Safety	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
De-Icing System Upgrade Pro	ogram										
TBD	Safety	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
UH-60M Selected Upgrade											
TBD	Selected Upgrade	0.0	0.0	0.0	0.0	136.6	166.3	388.8	364.6	11520.2	12576.5
UH-60M Medical Equipment	Package (MEP)										
TBD	Operational/Upgrade	0.0	0.0	0.0	0.0	0.0	0.0	52.8	53.2	1483.6	1589.6

Exhibit P-40M	I, Budget Item Justifica	ation Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Ac Aircraft Procurement,	tivity/Serial No: Army /2/Modification of aircraft				P-1 Item Nomeno	clature	UH-60 BLAC	K HAWK MODS	(AA0492)		
Program Elements for Co	de B Items:		Code:	Other Related	Program Elements:		0203744A/Proj	ect 504			
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Search and Rescue (SA	AR) MOD										
TBD	Operational	9.9	14.5	10.4	0.0	0.0	0.0	0.0	0.0	0.0	34.8
Totals		31.0	25.4	68.0	41.9	180.0	239.6	461.3	436.7	13045.3	14529.2

	INDIVIDUAL MODIFICATION	Date:	February 2002
MODIFICATION TITLE: Crashworthy External Fuel System (CEFS) [MOD 1] TBD			
MODELS OF SYSTEM AFFECTED: UH-60A/L/Q			
DESCRIPTION/JUSTIFICATION:			
The Crashworthy External Fuel System (CEFS) is a safety modification to deployment missions and do not meet current battlefield doctrine that required and survivability of UH-60 helicopters. The Army Aviation Safety Centertanks as high.	uires these helicopters to fly long-range missions into hostil	le environments.	CEFS is critical to the safety
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:			
Development is complete.			

Installation Schedule: FY 2002 Pr Yr FY 2001 FY 2003 FY 2004 FY 2005 2 3 3 2 Totals 16 5 10 20 36 36 11 11 11 11 12 16 Inputs Outputs 10 20 36 36 11 11 11 11 12 16 FY 2007 FY 2008 FY 2009 FY 2006 To Totals 3 2 Complete 15 15 14 20 21 Inputs 15 20 20 21 22 20 20 20 20 20 20 1107 1619 20 20 20 15 15 14 21 22 20 20 21 20 20 20 Outputs 1127 1619 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Contract Teams 6 Months 9 Months Apr 02 Contract Dates: FY 2002 FY 2003 Mar 03 FY 2004 Mar 04 Delivery Date: FY 2002 Dec 02 FY 2003 Oct 03 FY 2004 Oct 04

Date:

February 2002

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

	FY :	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity			10	3.0	102	21.2	44	9.7	53	12.1	59	13.8	83	19.2	81	18.3	1184	30.6	1616	127.9
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 10 Kits					10	0.1													10	0.1
FY 2002 Equip 102 Kits							102	0.6											102	0.6
FY 2003 Equip 44 Kits									44	0.4									44	0.4
FY 2004 Equip 53 Kits											53	0.4							53	0.4
FY 2005 Equip 59 Kits													59	0.5					59	0.5
FY 2006 Equip 83 Kits															83	0.6			83	0.6
FY 2007 Equip 81 Kits																	81	0.6	81	0.6
TC Equip- Kits																	1184	10.3	1184	10.3
Total Installment		0.0		0.0	10	0.1	102	0.6	44	0.4	53	0.4	59	0.5	83	0.6	1265	10.9	1616	13.5
Total Procurement Cost		0.0		3.0		21.3		10.3		12.5		14.2		19.7		18.9		41.5		141.4

								INDIVI	DUAL M	ODIFICA	ATION				D	ate:	F	ebruary 20	02		
MODIFICATION TITLE:	Sealed L	ead Acid	Battery (S	SLAB) [M	OD 3] 1-	94-01-195	53														
MODELS OF SYSTEM A	.FFECTEI	D: UH-60)A/L and	EH-60A/I																	
DESCRIPTION/JUSTIFIC	CATION:																				
Provides the fleet wi battery. The new bat field. This modificat	tery will	meet E	PA env	ironmen	ital heal	lth hazar	d restri	ctions, i	s recycl	able, red	duces op	erating	and sup	port co	sts, and	reduces	the ma	intenanc			
DEVELOPMENT STATU	S/MAJOI	R DEVEL	OPMEN"	T MILES?	TONES:																
Development is com	nloto																				
Installation Schedule:																					
	Pr Yr		FY 2				FY 2	2002			FY 20				FY 20		- 		FY 2005	;	
Innuts	Totals 150	1 75	2 75		4 75	1 175	2 200	200	4 200	1 60	2 60	3 60	4 48	1	2	3	4	1	2	3	4
Inputs Outputs	150	/3	/5	75 50	325		200 175		200	200	60	60	48 60	48							
Outputs				30	323	13	173	200	200	200	00	00	00	40							
		FY 2	2006			FY 2	007			FY 2	008			FY 20	09			То		7	Γotals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs																					1453
Outputs																					1453
METHOD OF IMPLEME Contract Dates:	NTATION		Contract 7 FY 2002		n 02	ADMINIS		'E LEAD' FY 2003	TIME:	3	Months			RODUCT Y 2004	TION LEA	ADTIME:	6	Months			
Delivery Date:			FY 2002	Ju	n 02]	FY 2003					F	Y 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): Sealed Lead Acid Battery (SLAB) [MOD 3] 1-94-01-1953

	FY 2	2000																		
	and l	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	1125	7.2	100	0.7	228	1.5													1453	9.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip 1125 Kits	150	0.7	300	1.6	675	3.0													1125	5.3
FY 2001 100 Kits					100	0.5													100	0.5
FY 2002 Equip 228 Kits							228	1.1											228	1.1
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment	150	0.7	300	1.6	775	3.5	228	1.1		0.0		0.0		0.0		0.0		0.0	1453	6.9
Total Procurement Cost		7.9		2.3		5.0		1.1		0.0		0.0		0.0		0.0		0.0		16.3

INDIVIDUAL MODIFICATION Date: February 2002

MODIFICATION TITLE: UH-60Q Medical Equipment Package (MEP) [MOD 4] TBD

MODELS OF SYSTEM AFFECTED: UH-60A/L

DESCRIPTION/JUSTIFICATION:

Upgrades UH-60A/L helicopters to UH-60Q/HH-60L air ambulances by adding a Mission Equipment Package (MEP) that provides the capability for en-route patient treatment which is critical to patient survivability. New capabilities of the UH-60Q/HH-60L include a medical oxygen generation system (eliminating the need for compressed oxygen cylinders), suction, integrated power, storage for medical equipment, modern medical interior, external electric hoist, and enhanced communication capabilities. These critical life saving capabilities are not available with the UH-60A helicopters currently being used. The UH-60Q/HH-60L supports the U.S. Army Surgeon General's number 1 priority of "clearing the battlefield" and supports the Army's objective force enabling a smaller footprint on the battlefield with rapid casualty evacuation over extended distances. It also supports joint operations with "shore to ship" medical evacuation and is the only dedicated tactical medical air evacuation platform in DOD. The Army will modify UH-60 helicopters to this MEDEVAC configuration until the UH-60M Selected Upgrade Program outputs helicopters. MEDEVAC requirements will then be shown under the UH-60M MEP P-3a exhibit

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is complete.

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY	2004			FY 20	05	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2	3	4 1	2	3	4
Inputs								2	3	1	1	1	2	1	1		1	2 2	2	3	3
Outputs									1	1	2	2	2	2	2	?	2	2 2	2	2	2
		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	.009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	5	4	Complete			
Inputs																					25
Outputs	1																				25
METHOD OF IMPLEME	NTATION	1 :	Prime Co	ontractor		ADMINI	STRATIV	VE LEAD	TIME:		6 Months]	PRODUC	TION L	EADTI	ME:	10 Month	ıs		
Contract Dates:			FY 2002	Α	pr 02			FY 2003	Dec	02]	FY 2004	De	ec 03					
Delivery Date:			FY 2002	Ε	ec 02			FY 2003	Sep	03			1	FY 2004	Se	p 04					

Date:

February 2002

MODIFICATION TITLE (Cont): UH-60Q Medical Equipment Package (MEP) [MOD 4] TBD

RDT&E	
RDT&E Procurement Non-Recurring Procurement Recurring Procurement Recurring Procurement Training Procurement 1 1.0 Other Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2001 Kits	L
Procurement	\$
Composition Composition	
Recurring Procurement 5 26.5 5 26.9 5 27.2 10 53.7 4.2 5 25 25 25 25 4.2 <t< td=""><td></td></t<>	
Recurring Procurement 5 26.5 5 26.9 5 27.2 10 53.7 4.2 25 <t< td=""><td></td></t<>	
MEP Fielding/MEP TPF Training Devices 1 1.0	
Training Devices 1 1.0	134.3
Other Support	12.7
	1.0
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2000 & Prior Equip Kits FY 2001 Kits	
FY 2001 Kits	
FY 2002 Equip Kits	
FY 2003 Equip Kits	
FY 2004 Equip Kits FY 2004 Equip Kits	
FY 2005 Equip Kits	
FY 2006 Equip Kits FY 2006 Equip Kits	
FY 2007 Equip Kits	
TC Equip- Kits	
To 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
	148.0

Ext	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ate:	F	February 2002		
Appropriation/Budget Ac Aircraft Procurement, Army		eraft				P-1 Item Nom KIO		OR (AZ2200)				
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	2880.6	49.2	41.9	41.5	42.3	42.4	41.9	34.6	23.0	56.5	89.4	3343.4
Less PY Adv Proc	223.3											223.3
Plus CY Adv Proc	223.3											223.3
Net Proc (P-1)	2880.6	49.2	41.9	41.5	42.3	42.4	41.9	34.6	23.0	56.5	89.4	3343.4
Initial Spares	181.3											181.3
Total Proc Cost	3061.9	49.2	41.9	41.5	42.3	42.4	41.9	34.6	23.0	56.5	89.4	3524.7
Flyaway U/C												
Wpn Sys Proc U/C												

The OH-58D Kiowa Warrior is a two-seat, single-engine, observation, scout/attack helicopter with four main-rotor blades. It utilizes a thermal-imaging system and laser rangefinder/designator in a mast-mounted sight situated above the main-rotor system. Weapons provide air-to-air (Stinger) and air-to-ground capability. The aircraft operates autonomously at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse-weather conditions. Kiowa Warriors also perform National Guard missions and have vital Horizontal Technology Insertion (HTI) roles, having participated in Task Force XXI and the Division Capstone Exercise (DCX). An ongoing Safety Enhancement Program (SEP) incorporates upgraded engines and filters, crashworthy crew seats, cockpit airbags, digitization, and improved weapons interface. The SEP improves recognition and identification of time-sensitive, combat, emergency situations; reduces pilot workload during emergency maneuvers; significantly improves the crashworthiness of the aircraft thus improving crew survivability; improves engine reliability, reducing the probability of engine failure and exposure to emergency autorotations; protects engines from corrosion from sand/dust; and adds digitization capabilities. Partial SEP improvements had been incorporated into the later lots of Bell Helicopter's Kiowa Warrior remanufacture/retrofit modification lines; those aircraft will complete SEP modifications through field retrofit activities. Other fielded Kiowa Warrior aircraft are being SEP modified via a combination of efforts on the contractor's SEP modification line and through field retrofit. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY03 procures additional modification efforts which allow the Kiowa Warrior to safely serve as the Army's night, armed-reconnaissance, aviation capability until Comanche fielding begins and to complement the Comanche aircraft until displaced in approximately 2015.

Exhibit P-40M, E	Budget Item Justifica	tion Sheet				Dat	2:	F	ebruary 2002		
Appropriation/Budget Activity Aircraft Procurement, Army	/Serial No: y /2/Modification of aircraft				P-1 Item Nomeno	elature	KIOWA WAR	RRIOR (AZ2200)			
Program Elements for Code B	Items:		Code:	Other Related l	Program Elements:						
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Safety Enhancement Progra	nm (SEP)										
0-00-00-0003	Safety	180.2	40.2	42.3	42.4	41.9	34.6	23.0	24.8	4.5	433.9
Safety Enhancement Progra	nm - Weight Reduction										
0-00-00-0005	Safety	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	84.9	116.6
Crew Station Mission Equi	pment Trainer (CSMET)										
0-00-00-0004	Training	17.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
Totals		197.4	41.5	42.3	42.4	41.9	34.6	23.0	56.5	89.4	569.0

Date:

February 2002

MODIFICATION TITLE: Safety Enhancement Program (SEP) [MOD 1] 0-00-00-0003

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION/JUSTIFICATION:

The Safety Enhancement Program (SEP) addresses safety issues and enables Kiowa Warrior performance as a digitized platform interfacing with the tactical internet. R3 Engines increase reliability, control responsiveness, and overcome a rotor droop anomaly by providing faster response time to power demands. Engine barrier filters improve engine reliability by reducing damage from sand/dust ingestion and by increasing engine meantime between overhaul. The Improved Master Controller Processor Unit (IMCPU) increases memory and throughput and reduces both aircraft empty weight and operating and support (O&S) costs. A Joint Variable Message Format (JVMF) capability is added to support fielding to First Digitized Division/Corps. Energy attenuating seats provide crew safety in case of vertical and horizontal impacts. Cockpit airbags increase crew protection. Of the fleet of 380 Kiowa Warriors, 304 (including nine Category B trainers) will receive SEP modifications; 227 will be accomplished on the contractor's modification line and 77 additional aircraft had been partially equipped in prior remanufacture/retrofit lines. Four of those 77 have been lost to attrition. Equipment not installed at the contractor's facility will be applied via field retrofit. In order to complete the SEP, aircraft will be modified at the contractor's facility and some will have seats, airbags, and engine barrier filters installed in the field. A total of 380 aircraft will be equipped with engine barrier filters, seats, and airbags.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY :	2004			FY 2	2005	
	Totals	1	2	. 3	4	1	2	3	4	1	2	3	4	1	2	3	3 .	4 1	2	3	4
Inputs																					
Outputs																					
					_																
		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	۷	1	Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEME	NTATION	J:	Kr line &	tld retro	fit	ADMINI	STRATIV	VE LEAD	TIME:		5 Months		P	PRODUC	TION L	EADTIN	ſE:	13 Month	ıS		
Contract Dates:			FY 2002	N	1ar 02			FY 2003	Ma	r 03			F	FY 2004	Ma	ır 04					
Delivery Date:			FY 2002	N	1ar 03			FY 2003	Ma	r 04			F	Y 2004	Ma	ır 05					

AZ2200 KIOWA WARRIOR Item No. 19 Page 3 of 4 107 Exhibit P-3a Individual Modification

Date:

February 2002

MODIFICATION TITLE (Cont): Safety Enhancement Program (SEP) [MOD 1] 0-00-00-0003

	FY 2	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	ſAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Aircraft Modified - Bell Helicopter	78		22		24		24		22		20		18		19				227	
Nonrecurring		16.2		3.7		2.7		2.7		2.7		2.6		2.5		2.6				35.7
Recurring - Bell Helicopter		50.9		11.6		14.8		14.9		14.2		13.6		12.7		13.9				146.6
Government-Furnished Equipment		99.6		19.7		19.4		17.4		16.2		10.9		2.1		1.9		0.3		187.5
Engineering Change Orders				0.4		0.4		0.4		0.4		0.3		0.1		0.2				2.2
Aircraft Preparation		6.4		2.5		2.4		2.7		2.7		2.7		2.8		2.8		0.9		25.9
Fielding		0.7		0.6		0.8		0.9		0.9		1.9		0.7		0.7		0.7		7.9
Training/Training Devices		1.4						0.9		2.0						0.9		0.4		5.6
Other		3.7		1.1		0.8		0.9		0.9		0.8		0.9		0.9		1.3		11.3
Technical Support		1.1		0.6		0.7		0.9		1.0		0.8		0.6		0.6		0.7		7.0
Installation of Hardware - Field																				
FY 2000 & Prior Equip Kits		0.2																		0.2
FY 2001 Kits						0.3														0.3
FY 2002 Equip Kits								0.7												0.7
FY 2003 Equip Kits										0.9										0.9
FY 2004 Equip Kits												1.0								1.0
FY 2005 Equip Kits														0.6						0.6
FY 2006 Equip Kits																0.3				0.3
FY 2007 Equip Kits																		0.2		0.2
TC Equip- Kits																				
Total Installment		0.2		0.0		0.3		0.7		0.9		1.0		0.6		0.3		0.2		4.2
Total Procurement Cost		180.2		40.2		42.3		42.4		41.9		34.6		23.0		24.8		4.5		433.9

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /		eraft				P-1 Item Nom AIR		ONICS (AA07	00)			
Program Elements for Coo	de B Items:			Code:	Other Relate	ed Program Ele	ements:	PE 060420	IA, PE 030511	4A, SSN AA0	0704	
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	261.1	56.3	43.8	52.4	77.9	97.0	80.6	63.4	60.0	43.1	1628.4	2464.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	261.1	56.3	43.8	52.4	77.9	97.0	80.6	63.4	60.0	43.1	1628.4	2464.1
Initial Spares	48.7	4.1	1.8	2.0	3.9	3.9	4.9	4.8	4.7	4.6	40.3	123.7
Total Proc Cost	309.8	60.4	45.6	54.4	81.8	100.9	85.4	68.3	64.7	47.7	1668.7	2587.8
Flyaway U/C												
Wpn Sys Proc U/C												

The Airborne Avionics budget line includes the Global Positioning System (GPS), the Improved Data Modem (IDM), the Advanced Avionics Technology Insertion (AATI), the Aviation Mission Planning System (AMPS), and the Joint Precision Approach and Landing System (JPALS). The GPS, IDM, AATI, and AMPS are four of the aviation systems required to support the digitization of the battlefield. All of these systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan.

The GPS provides Army aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS)/AN/ASN-128B is used for the utility and cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Scout/Attack and Special Operations fleets of helicopters. A Pre-Planned Product Improvement to the DGNS and EGI began in FY01 to integrate a Selective Availability Anti-Spoofing Module (SAASM), a GPS Anti-Jam (AJ) device and Instrument Flight Rule (IFR) navigation capability.

The IDM is the key to digitizing Army Aviation. It is the centerpiece of Aviation's connectivity with the Tactical Internet (TI) and Fire Support (FS) Internet. This hardware/software solution allows Army Aviation interoperability with other weapon and ground systems. The IDM provides a common Aviation platform solution for processing Situational Awareness and Joint Variable Message Format messages. IDM will be installed on the AH-64D, OH-58D, CH-47F, Special Operations Aircraft (SOA), UH/HH-60M, Aviation Tactical Operations Center (AVTOC), and Tactical Airspace Integration Systems (TAIS).

The AATI is an integrated, multi-function avionics device that encapsulates real-time information exchange and information processing capabilities in a common chassis. AATI will provide the Aviation fleet (AH-64D, OH-58D, UH-60M, and CH-47F) with a cost effective, automated, flexible, electronic system which gives the user access to any required/directed information exchange and processing in support of battlespace command and control, navigation, identification, airspace traffic control, mission management, and aviation specific requirements.

AMPS is a mission planning/battle-synchronization tool that automates aviation mission planning tasks that include tactical command and control, mission planning, and flight planning. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 2002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army /2/Modification of aircraft			P-1 Item Nomenclature	AIRBORNE AVIONICS (AA0700)
Program Elements for Code B Items:	Code:	Other Related	Program Elements:	PE 0604201A, PE 0305114A, SSN AA0704

This system generates mission data in either hard copy or electronic formats which is loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft. AMPS provides critical Command and Control (C2) connectivity for Army Aviation and automated extraction of critical C2 information from MCS for use in mission planning at Aviation brigade and below. AMPS is also the common data loader for initializing the avionics of all modernized platforms, including the AH-64A Apache Modernization, AH-64D Longbow Apache, CH-47D/F Chinook, OH-58D Kiowa Warrior, RAH-66 Comanche, and UH-60A/L/M/Q Blackhawk.

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

Justification:

FY03 funding for GPS pre-planned product improvement (P3I) provides for the initial procurement of modification kits for field retrofit on the UH-60A/L, CH-47D, AH-64D and Special Operations Aircraft. P3I is required to meet the anit-jam requirements of Navigation Warfare (NAVWAR), the Chairman of the Joint Chiefs of Staff (CJCS)-directed security requirement (Selective Availability Anti-Spoofing Module (SAASM)) dated 2 January 2001. GPS P3I, GATM and JPALS programs are closely linked and have joint perspective/participation.

FY03 funding for IDM provides for the procurement of 214 B-Kits, 66 A-Kits, and 67 installs of IDM-304 boxes for AH-64D, OH-58D, CH-47F, SOA, TAIS, AVTOC, and UH/HH-60M fielding requirements. The IDM improves Army Aviation's interoperability, lethality, and operational tempo through the exchange of fast and accurate data-burst communications, via the TI and FS Internet; providing a seamless capability to communicate across the digital battlefield.

FY03 funding for AMPS provides for re-procurement of system hardware which is currently at end-of-life, as well as for updgrading the system software to support aviation fleet modernization programs and migration to the Joint Mission Planning System (JMPS).

Exhibit P-40M, B	udget Item Justificatio	on Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Activity/S Aircraft Procurement, Army					P-1 Item Nomeno	lature	AIRBORNE A	AVIONICS (AA07	-		
Program Elements for Code B It	iems:		Code:	Other Related	Program Elements:		PE 0604201A,	PE 0305114A, SSI	N AA0704		
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Doppler GPS Navigation Sys	stem (DGNS) (AN/ASN-128B)										
	Legislative	91.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.6
Improved Data Modem (IDN	1)										
	Oper/Log	80.6	32.8	42.6	59.3	35.8	30.0	29.9	33.2	528.6	872.8
Aviation Mission Planning S	system (AMPS)										
1-95-01-2185	Oper/Log	48.7	13.5	10.5	19.8	28.1	16.4	14.6	0.0	159.3	310.9
Embedded GPS Inertial Nav	igation System (EGI) P3I										
	Legislative	4.2	3.6	14.6	14.7	11.5	8.5	8.1	5.7	105.3	176.2
DGNS (AN/ASN-128B) P3I											
	Legislative	0.0	1.6	10.2	3.2	5.3	8.6	7.6	4.0	89.9	130.4
Advanced Avionics Technol	ogy Insertion										
	Oper/Log	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	372.2	372.2
Joint Precision Approach &	Landing System (JPALS)										
	Oper/Log	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	373.1	373.1
Totals		225.3	52.3	77.9	97.0	80.7	63.5	60.2	42.9	1628.4	2328.2

INDIVIDUAL MODIFICATION Date: February 2002

MODIFICATION TITLE: Improved Data Modem (IDM) [MOD 2]

MODELS OF SYSTEM AFFECTED: IDM MD-1295/A; Aircraft: Longbow, Kiowa Warrior, Special Operations Aircraft, Chinook, Blackhawk

DESCRIPTION/JUSTIFICATION:

The IDM is Army Aviation's direct response to the need for Digitization of the Battlefield. With the IDM, Field Commanders gain the capability for enhanced command and control (C2), situational awareness (SA) through digital mapping of friendly and enemy positions, and modernized operations in joint service digitized environments. The IDM enhancement to incorporate Embedded Battle Command (EBC) minimizes changes to platform architecture, capitalizes on software reuse, and reduces platform software lifecycle costs. IDMs for CH-47F and UH/HH-60M will be incorporated in production. IDMs for AH-64D, OH-58D, TAIS and SOA will be installed as production cut-ins and field retrofits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Total Ownership Cost Reduction (TOCR) Initiative - Planned Jul 00 thru May 02

Division Capstone Exercise (Limited C2) - Accomplished Apr 01

NRE Contract Awarded - Jul 01

Limited Production Contract - Awarded Dec 01

Full Rate Production Contract - Planned Feb 03

Second Digitized Division - Planned FY03

First Digitized Corps - Planned FY04

Incto	llation	Saha	dula

installation schedule.																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 20	03			FY 200)4			FY 20	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs									4	16	17	17	17	8	8	8	7	18	19	19	19
Outputs										15	17	17	17	11	8	8	7	14	19	19	19
		FY 2	2006			FY 2	2007			FY 20	008			FY 20	09			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs	20	20	20	21	7	7	7	5	11	11	11	11	6	5							339
Outputs	20	20	20	21	6	6	6	6	14	14	12	11	6	6							339
METHOD OF IMPLEME	ENTATION	J:	Contracto	or Teams		ADMINIS	STRATIV	/E LEAD	TIME:	4	Months		PF	RODUCT	ION LEA	DTIME:	1:	5 Months	i		
Contract Dates:			FY 2002	D	ec 01			FY 2003	Feb 0	3			FY	2004	Dec 0	3					
Delivery Date:			FY 2002	F	eb 03			FY 2003	Apr 0	4			FY	2004	Feb 0:	5					
•																					

Date:

February 2002

MODIFICATION TITLE (Cont): Improved Data Modem (IDM) [MOD 2]

	FY 2	2000																		
	and 1	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	ТОТ	AL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity - B Kits	260	8.9	74	2.0	152	2.4	214	10.0	254	12.1	161	7.8			59	3.0	873	74.4	2047	120.6
Mods - B Kit	120	1.8	86	2.7	67	1.4												101.6	273	107.5
Installation Kits-A-Kits		4.1	52	0.6	188	7.4	66	1.2	134	2.7	94	1.3	12	0.1					546	17.4
Aircraft Integration		27.8		18.2		23.0		35.7		8.9		10.2		24.0		20.1		216.5		384.4
H/W S/W, Nonrecurring		21.5		8.6		5.0		6.3		2.2		6.2		2.3		6.6		51.5		110.2
Engineering Change Orders		3.9						0.5		0.6		0.4				0.1		8.4		13.9
Data		0.8						0.4		0.5		0.3				0.1		7.0		9.1
System Test and Evaluation		0.4				0.1		0.8		4.8		0.1		0.6		0.1		17.3		24.2
Support Equipment		0.4				0.1		0.2		0.3		0.2				0.1		4.2		5.5
Other - PM Adm		10.3		0.5		2.0		2.6		1.6		1.4		1.1		1.4		23.9		44.8
Training Equipment								0.3		0.4		0.3				0.1		5.6		6.7
Fielding		0.7		0.2		0.9		1.0		1.5		1.4		1.4		1.5		18.0		26.6
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits					4	0.3	30	0.1											34	0.4
FY 2002 Equip Kits							37	0.2	3										40	0.2
FY 2003 Equip Kits									28	0.2	20	0.1							48	0.3
FY 2004 Equip Kits											55	0.3	55	0.3					110	0.6
FY 2005 Equip Kits													26	0.1	26	0.1			52	0.2
FY 2006 Equip Kits																	55	0.2	55	0.2
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0	4	0.3	67	0.3	31	0.2	75	0.4	81	0.4	26	0.1	55	0.2	339	1.9
Total Procurement Cost		80.6		32.8		42.6		59.3		35.8		30.0		29.9		33.2		528.6		872.8
				•					_			•							•	

INDIVIDUAL MODIFICATION February 2002 Date:

MODIFICATION TITLE: Aviation Mission Planning System (AMPS) [MOD 3] 1-95-01-2185

MODELS OF SYSTEM AFFECTED: Apache (AH-64A Modernization/AH-64D), Blackhawk (UH-60A/L/Q), Chinook, Cobra, Comanche, Huey

DESCRIPTION/JUSTIFICATION:

The AMPS is a mission planning/battle-synchronization tool that automates aviation mission planning tasks. The AMPS includes tactical command and control, mission planning and management. It interfaces with the Maneuver Control System (MCS) and associated networks which will furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats which is loaded on the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft. Since the airframes have the data receptacles/buses required to interface with AMPS, there is no installation cost/schedule.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Accomplished IOTE - Mar/Apr 01 JMPS OT - Feb 06 Milestone C - Jul 06

Installation Schedule:																					
	Pr Yr		FY	2001			FY	2002			FY 2	2003			FY 20	004			FY 2	2005	
	Totals	1	2	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2		3 4
Inputs																					
Outputs																					
		FY	2006			FY	2007			FY :	2008			FY 2	2009			То			Totals
	1	2	3	3	4	. 2	3	4	. 1	2	3	4	1	2	3	4	(Complete			
Inputs																					0
Outputs																					
METHOD OF IMPLEMI	ENTATION	N:				ADMIN	STRATI	VE LEAI	OTIME:		0 Months	3	I	PRODUC	CTION LEA	ADTIME	3:	0 Months			
Contract Dates:			FY 2002	2				FY 2003					I	FY 2004							
Delivery Date:			FY 2002	2				FY 2003					I	FY 2004							

Date:

February 2002

MODIFICATION TITLE (Cont): Aviation Mission Planning System (AMPS) [MOD 3] 1-95-01-2185

	FY 2	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY :	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	705	19.7																	705	19.7
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		7.7		4.0			329	8.4	380	13.4	246	9.0	194	7.2			2298	77.9	3447	127.6
Equipment, Nonrecurring				7.7		1.1		5.8		9.5		2.7		2.1				22.0		50.9
Engineering Change Orders		17.1				7.3		2.4		1.5		1.5		2.2				27.5		59.5
System Test & Eval				0.1		0.2		0.6		0.6		0.6		0.6				6.4		9.1
Training Equipment						0.1		0.1		0.1		0.1		0.1				0.6		1.1
Support Equipment																				
Other - PM Admin		3.4		0.3		0.4		0.7		1.0		0.7		0.6				6.3		13.4
Fielding		0.8		1.4		1.4		1.8		2.0		1.8		1.8				18.6		29.6
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits																				
FY 2005 Equip Kits																				
FY 2006 Equip Kits																				
FY 2007 Equip Kits																				
TC Equip- Kits																				
Total Installment		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Total Procurement Cost		48.7		13.5		10.5		19.8		28.1		16.4		14.6		0.0		159.3		310.9

INDIVIDUAL MODIFICATION Date: February 2002

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

MODELS OF SYSTEM AFFECTED: Kiowa Warrior (OH-58D), Apache A (AH-64A), Longbow (AH-64D), SOA

DESCRIPTION/JUSTIFICATION:

GPS (EGI) is one of the aviation systems required for Digitization of the Battlefield. FY03 starts the procurement of the GPS EGI Pre-Planned Product Improvement (P3I). This modification will provide enhanced security with the CJCS directed Selective Availability Anti-Spoofing Module (SAASM), GPS Instrument Flight Rule (IFR) navigation capability, and enhanced GPS Anti-Jam (AJ) capabilities, in accordance with NAVWAR and civil airspace regulatory requirements for the AH-64A/D, OH-58D and Special Operations Aircraft (SOA). The kit cost will vary depending on aircraft configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned Contract Award - EGI Box (Nonrecurring) - May 02 Planned Contract Award - Aircraft Integration (Nonrecurring) - Jun 02 Planned Production Contract Award - May 04

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY 20	004			FY 2	005	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																				14	14
Outputs																					14
		FY 2	2006			FY 2	2007			FY 2	008			FY 20	009			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	(Complete			
Inputs	33	33	33	34	39	39	39	40	20	20	20	20	39	39	39	40		1423			1978
Outputs	14	33	33	33	34	39	39	39	40	20	20	20	20	39	39	39		1463			1978
METHOD OF IMPLEME	NTATION	1 :	Contracto	or Teams		ADMINI	STRATIV	/E LEAD	TIME:	•	7 Months		PI	RODUC	ΓΙΟΝ LE	ADTIM	E:	12 Month	ıs		
Contract Dates:			FY 2002					FY 2003	May	04			F	Y 2004	Mar	05					
Delivery Date:			FY 2002					FY 2003	Apr	05			F	Y 2004	Feb	06					

Date:

February 2002

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

	FY :	2000																		
	and	Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	Т	С	TOT	Γ A L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity - B Kit									71	4.3	150	6.7	120	5.7	80	3.7	1580	63.3	2001	83.7
Installation Kits - A Kit				0.5					48	0.2	150	0.6	120	0.5	80	0.3	1580	5.3	1978	7.4
Installation Kits, Nonrecurring						3.0		14.0		5.9								7.4		30.3
Equipment				0.0																
Equipment, Nonrecurring				1.9		10.9												7.3		20.1
Engineering Change Orders		4.0		1.0						0.3		0.3		0.1						5.7
Data										0.1		0.2		0.2		0.1		1.1		1.7
Training Equipment										0.1		0.1		0.1		0.0		0.4		0.7
Support Equipment																				
Other - PM Admin		0.2		0.2		0.7		0.7		0.6		0.4		0.4		0.3		5.3		8.8
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits																				
FY 2004 Equip Kits											28	0.2	20	0.2					48	0.4
FY 2005 Equip Kits													113	0.9	37	0.3			150	1.2
FY 2006 Equip Kits															120	1.0			120	1.0
FY 2007 Equip Kits																	80	0.7	80	0.7
TC Equip- Kits																	1580	14.5	1580	14.5
Total Installment		0.0		0.0		0.0		0.0		0.0	28	0.2	133	1.1	157	1.3	1660	15.2	1978	17.8
Total Procurement Cost		4.2		3.6		14.6		14.7		11.5		8.5		8.1		5.7		105.3		176.2

INDIVIDUAL MODIFICATION Date: February 2002

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

MODELS OF SYSTEM AFFECTED: Blackhawk (UH-60 A/L), Chinook (CH-47D)

DESCRIPTION/JUSTIFICATION:

GPS (DGNS) is one of the aviation systems required for Digitization of the Battlefield. FY03 starts the procurement of the Pre-Planned Product Improvement (P3I) for the ASN-128B/DGNS for the UH-60A/L and CH-47D aircraft. This modification will provide enhanced security with the CJCS directed Selective Availability Anti-Spoofing Module (SAASM), GPS Instrument Flight Rule (IFR) navigation capability, and enhanced Anti-Jam (AJ) capabilities. The AN/ASN-128B/DGNS P3I will meet the requirements of NAVWAR and civil airspace regulatory requirements for the UH-60A/L and CH-47D aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Accomplished Contract Award - DGNS Box (Nonrecurring)- Aug 01 Planned Contract Award - Aircraft Integration (Nonrecurring) - Jun 02 Planned Production Contract Award - May 03

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY 2	2002			FY 20	003			FY 200	04			FY 20	05	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																9	10	22	22	23	23
Outputs																	9	10	22	22	23
		FY 2	2006			FY 2	2007			FY 2	800			FY 20	09			То		,	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs	39	39	39	40	40	40	40	43	11	11	11	12	75	76	76	76		914			1691
Outputs	23	39	39	39	40	40	40	40	43	11	11	11	12	75	76	76		990			1691
METHOD OF IMPLEME	NTATION	1 :	Contracto	or Team		ADMINI	STRATIV	/E LEAD	TIME:	7	7 Months		PR	ODUCT	ION LEA	DTIME:	1	2 Months			
Contract Dates:			FY 2002					FY 2003	May	03			FY	2004	Mar 0)4					
Delivery Date:			FY 2002					FY 2003	Apr	04			FY	2004	Feb 0	5					

Date:

February 2002

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

	FY:	2000																		
		Prior	FY 2	2001	FY 2	2002	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007		C	TO	ΓAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity - B Kit							68	2.5	112	4.2	160	6.4	123	5.1	45	2.2	1217	54.5	1725	74.9
Installation Kits - A Kit							57	0.2	89	0.3	160	0.6	123	0.5	45	0.2	1217	5.2	1691	7.0
Installation Kits, Nonrecurring						5.4												7.5		12.9
Equipment																				
Equipment, Nonrecurring				1.5		4.3												4.0		9.8
Engineering Change Orders								0.2		0.2		0.2								0.6
Data								0.1		0.1		0.2		0.2		0.1		1.9		2.6
Training Equipment								0.0		0.1		0.1		0.1		0.0		0.7		1.0
Support Equipment																				
Other - PM Admin				0.1		0.5		0.2		0.3		0.4		0.4		0.2		4.3		6.4
Interim Contractor Support																				
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits																				
FY 2003 Equip Kits									19	0.1	38	0.3							57	0.4
FY 2004 Equip Kits											52	0.4	37	0.3					89	0.7
FY 2005 Equip Kits													120	1.0	40	0.3			160	1.3
FY 2006 Equip Kits															123	1.0			123	1.0
FY 2007 Equip Kits																	45	0.4	45	0.4
TC Equip- Kits																	1217	11.4	1217	11.4
		0.0		0.6		0.6		0.0	1.0	0.1	0.0	0.5	1.55	1.0	1.00	1.0	1265	11.0	1.601	15.5
Total Installment		0.0		0.0		0.0		0.0	19	0.1	90	0.7	157	1.3	163	1.3	1262	11.8	1691	15.2
Total Procurement Cost		0.0		1.6		10.2		3.2		5.3		8.6		7.6		4.0		89.9		130.4

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sh	eet	D	ate:	1	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /		eraft				P-1 Item Nom ASI		RFC) (AA0720)				
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program El	ements:	SSN AZ350	08; PE/Project	0604270A/66	5	
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		11 200 11 200 11 200 1 200 1 200										
Gross Cost	177.9	4.8	8.8	5.0								196.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	177.9	4.8	8.8	5.0								196.5
Initial Spares												
Total Proc Cost	177.9	4.8	8.8	5.0								196.5
Flyaway U/C												
Wpn Sys Proc U/C												

AA0720 is a summary for the AN/ALQ-211, Suite of Integrated Radio Frequency Countermeasures (SIRFC), Aircraft Survivability Equipment Trainer IV (ASET IV), and the Advanced Threat Infrared Countermeasures (ATIRCM). ASE modifications provide funding for Aircraft Survivability Equipment (ASE) upgrades by incorporation of the latest state-of-the-art technology needed to meet current and emerging threats to Army Aviation platforms. Modular upgrades are applied in lieu of new developments to obtain the most cost effective improved systems. Modifications to current systems will sustain and protect the forces, conduct precision strikes, and dominate the maneuver battle. Installing ASE items on aircraft systems achieves RF threat defeating capabilities. This budget item rolls up four modification efforts that test, procure, and install A-Kits on Army airframes and modifications to ASET IV. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY01 funding was required for the AN/ALQ-211, Suite of Integrated Radio Frequency Countermeasures (SIRFC) nonrecurring engineering integration program for the Special Operations Aircraft (SOA.) The SOA requires additional capabilities to detect and defeat air and ground radar frequency (RF) missiles and to provide situational awareness to the pilot. The improvements needed will be satisfied by SIRFC.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sh	eet	Ε	ate:	I	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /2		craft				P-1 Item Nom GA	nenclature ΓΜ (AA0701	.)				
Program Elements for Cod	le B Items:			Code:	Other Relat	ed Program El	ements:	SSN AA07	11, SSN AA07	704		
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			10.0	12.7								22.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			10.0	12.7								22.6
Initial Spares												
Total Proc Cost			10.0	12.7								22.6
Flyaway U/C												
Wpn Sys Proc U/C												

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM is a DoD term that describes the equipment, training, and procedures mandated by Civilian air control authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, reliability, re

Justification:

Beginning in FY 2002, program transferred to AA0711.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /2/		eraft				P-1 Item Nom GA	nenclature FM Rollup (<i>A</i>	A0711)				
Program Elements for Code	e B Items:			Code:	Other Relate	ed Program Ele	ements:	SSN AA07	01, SSN AA07	04		
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost					38.2	70.4	60.2	60.1	24.7	22.7	353.8	630.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					38.2	70.4	60.2	60.1	24.7	22.7	353.8	630.1
Initial Spares												
Total Proc Cost				·	38.2	70.4	60.2	60.1	24.7	22.7	353.8	630.1
Flyaway U/C												
Wpn Sys Proc U/C												

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM is a DoD term that describes the equipment, training, and procedures mandated by Civilian air control authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, reliability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipments are driven by civil aviation authorities and are not under DoD control. GATM requirements cannot be met with a single piece of equipment. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing fleets. GATM supports the Legacy-to-Objective transition path of the Transformation Campaign Plan.

Justification:

FY03 funding procures avionics that will allow Rotary Wing aircraft to meet near-term GATM requirements. Europe mandates a Mode-S transponder for Instrument Flight Rules (IFR) flights after Mar 03 and for all flights after Mar 05. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates. The Mode-S transponder impacts over 300 European based aircraft as well as those deploying to Europe. The recurring procurement of Mode-S kits started in FY02 and procurement and installations continue beyond the POM. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements. GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion.

FY03 GATM Fixed Wing funding will procure GATM equipment for C-12, C-23, and RC-12 aircraft. Fixed Wing aircraft were purchased with current avionics and navigation equipment at the time of production. New communication, navigation and surveillance equipment will be needed to support GATM for the Army's Fixed Wing aircraft to remain current and have unrestricted access to the rapidly changing Air Traffic Management airspace. Unless equipped, the Army's senior leadership will be limited in conducting their worldwide command and control missions because of potential airspace exclusion or routing delays. In addition, elimination of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	ebruary 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /2		eraft				P-1 Item Nom GA		ing Aircraft (A	A0703)			
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost					19.2	43.1	33.3	42.7	9.0			147.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					19.2	43.1	33.3	42.7	9.0			147.3
Initial Spares												
Total Proc Cost					19.2	43.1	33.3	42.7	9.0			147.3
Flyaway U/C												
Wpn Sys Proc U/C		·										

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

Justification:

FY03 funding will procure GATM equipment for C-12, C-23, and RC-12 Fixed Wing aircraft. Fixed Wing aircraft were purchased with current avionics and navigation equipment at the time of production. However, for the Army's Fixed Wing aircraft to remain current and have unrestricted access to the rapidly changing Air Traffic Management airspace, new communication, navigation and surveillance equipment will be needed to support GATM. Unless equipped, the Army's senior leadership will be limited in conducting their worldwide command and control missions because of potential airspace exclusion or routing delays. In addition, elimination of obsolete communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

Exhibit P-40M	, Budget Item Justifica	ntion Sheet				Date	e:	F	ebruary 2002		
Appropriation/Budget Acti Aircraft Procurement, A	ivity/Serial No: rmy /2/Modification of aircraft				P-1 Item Nomeno	lature	GATM - Fixe	d Wing Aircraft (A	A0703)		
Program Elements for Code	e B Items:		Code:	Other Related	Program Elements:						
Description		Fiscal Years		1							
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Global Air Traffic Mana	agement - FW										
GATM-FW	U	0.0	0.0	19.3	43.3	33.5	43.1	9.1	0.0	0.0	148.3
Totals		0.0	0.0	19.3	43.3	33.5	43.1	9.1	0.0	0.0	148.3

INDIVIDUAL MODIFICATION Date: February 2002

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

MODELS OF SYSTEM AFFECTED: C-12 series; RC-12 series; C-23; C-26; C-37; C-20F,E and UC-35

DESCRIPTION/JUSTIFICATION:

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

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

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Development is not required for avionics system cockpit upgrades

Installation Schedule:																					
	Pr Yr		FY 2	2001			FY	2002			FY 200)3			FY 20	04			FY 200)5	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs								10	11	18	18	18	22		16	17	17	14	15	16	16
Outputs									10	11	18	18	18	22		16	17	17	14	15	16
		FY 2	006			FY 2	2007			FY 20	08			FY 20	09			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	omplete			
Inputs	11	12	13	13																	257
Outputs	16	11	12	13	13																257
METHOD OF IMPLEME	ENTATION	I:				ADMINI	STRATI	VE LEAD	TIME:	3	Months		Pl	RODUCT	ION LEA	ADTIME:	: 5	5 Months			
Contract Dates:]	FY 2002	F	eb 02			FY 2003	Dec 0)2			F	Y 2004	Dec (03					
Delivery Date:		1	FY 2002	Ju	ıl 02			FY 2003	May	03			F	Y 2004	May	04					

INDIVIDUAL MODIFICATION

Date:

February 2002

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

FINANCIAL PLAN: (\$ in Millions)

RDT&E Procurement Str. Characteristic Str. Str		FY 2	2000																		
RDT&E Procurement					2001				2003						2006		2007			ТОТ	ΓAL
Procurement		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity Installation Kits Installation Kits Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip – Kits FY 2002 Equip – Kits FY 2003 Equip – Kits FY 2005 Equip – Kits FY 2005 Equip – Kits FY 2007 Equip – Kits	RDT&E																				
Installation Kits 39 14.6 58 31.4 50 26.0 61 34.5 49 6.9 257 2																					
Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	Kit Quantity																				
Equipment Equipment Equipment Equipment Equipment Equipment Nonrecurring Engineering Change Orders Data	Installation Kits					39	14.6	58	31.4	50	26.0	61	34.5	49	6.9					257	113.4
Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2002 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2008 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits	Installation Kits, Nonrecurring																				
Engineering Change Orders Data	Equipment																				
Data	Equipment, Nonrecurring																				
Training Equipment	Engineering Change Orders																				
Support Equipment Other Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Eq	Data						0.1		0.1		0.1		0.1		0.1						0.5
Other Interim Contractor Support Installation of Hardware FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits FY 200	Training Equipment																				
Interim Contractor Support Installation of Hardware Insta	Support Equipment																				
Installation of Hardware	Other																				
FY 2000 & Prior Equip Kits FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 & FY 2008 & FY 2009 & FY 200	Interim Contractor Support																				
FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits	Installation of Hardware																				
FY 2001 Kits FY 2002 Equip Kits FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2008 Equip Kits FY 2009 Equip Kits	FY 2000 & Prior Equip Kits																				
FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits																					
FY 2003 Equip Kits FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits	FY 2002 Equip Kits					21	4.6													21	4.6
FY 2004 Equip Kits FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits								76	11.8											76	11.8
FY 2005 Equip Kits FY 2006 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits FY 2007 Equip Kits										50	7.4									50	7.4
FY 2006 Equip Kits 49 2.1 49 FY 2007 Equip Kits												61	8.5							61	8.5
FY 2007 Equip Kits														49	2.1					49	2.1
	• •																				
Total Installment 0.0 0.0 21 4.6 76 11.8 50 7.4 61 8.5 49 2.1 0.0 0.0 257	Total Installment		0.0		0.0	21	4.6	76	11.8	50	7.4	61	8.5	49	2.1		0.0		0.0	257	34.4
Total Procurement Cost 0.0 0.0 19.3 43.3 33.5 43.1 9.1 0.0 0.0	Total Procurement Cost		0.0		0.0		19.3		43.3		33.5		43.1		9.1		0.0		0.0		148.3

Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Di	ate:	F	ebruary 2002					
Appropriation/Budget Ac Aircraft Procurement, Army		craft				P-1 Item Nom GA		Ving Aircraft (A	AA0704)						
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	SSN AA07	01, SSN AA07	11					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog			
Proc Qty															
Gross Cost			18.9 27.3 26.9 17.4 15.7 22.7 353.8 482.8												
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)					18.9	27.3	26.9	17.4	15.7	22.7	353.8	482.8			
Initial Spares															
Total Proc Cost					18.9 27.3 26.9 17.4 15.7 22.7 353.8 482										
Flyaway U/C															
Wpn Sys Proc U/C															

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM is a DoD term that describes the equipment, training, and procedures mandated by Civilian air control authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, reliability, re

Justification:

FY03 funding procures avionics that will allow Rotary Wing aircraft to meet near-term GATM requirements. Europe mandates a Mode-S transponder for Instrument Flight Rules (IFR) flight after Mar 03 and for all flights after Mar 05. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates. The Mode-S transponder impacts over 300 European based aircraft as well as those deploying to Europe. The recurring procurement of Mode-S kits started in FY02 and procurement and installations continue beyond the POM. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements. GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion.

Exhibit P-40M	I, Budget Item Justifica	ation Sheet				Dat	e:	F	ebruary 2002		
Appropriation/Budget Ac Aircraft Procurement,	tivity/Serial No: Army /2/Modification of aircraft				P-1 Item Nomeno	clature	GATM - Rota	ry Wing Aircraft (AA0704)		
Program Elements for Co	de B Items:		Code:	Other Related	Program Elements:		SSN AA0701,	SSN AA0711			
Description		Fiscal Years									
OSIP NO.	Classification	2000 & PR	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	TC	Total
Global Air Traffic Mar	nagement - RW										
GATM-RW	Unclassified	0.0	0.0	18.9	27.4	26.9	17.3	15.7	22.7	353.8	482.7
Totals		0.0	0.0	18.9	27.4	26.9	17.3	15.7	22.7	353.8	482.7
Totals		0.0	0.0	16.9	27.4	20.9	17.3	13.7	22.1	333.6	462.7

INDIVIDUAL MODIFICATION Date: February 2002

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

MODELS OF SYSTEM AFFECTED: CH-47D, UH-60A/L, EH-60, MH-47D/E, MH-60L/K, A/MH-6, TH-67, AH-64/A/D, OH-58D

DESCRIPTION/JUSTIFICATION:

High priority requirements funding will address communications and surveillance equipment necessary for airspace access for rotary wing aircraft operations (peacetime and wartime missions) in Europe. The Mode-S transponders will be required for all Instrument Flight Rules (IFR) flights in Europe after 31 Mar 03. Funding will procure and install Mode-S transponders for all European based aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned OH-58D Integration Award (Mode-S) - Mar 02 Planned UH-60A/L/CH-47D Production Award (Mode S) Mar 02 Begin UH-60A/L and CH-47D Installations - Sep 02 Planned AH-64 A/D Integration Award (Mode-S) - Jun 03

Installation	ı Schedi	ıle:
--------------	----------	------

Inputs	
Outputs	

Pr Yr		FY 2	2001			FY 2	2002			FY 2	2003			FY 2	2004			FY 2	2005	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
								185	86	87	87	87	108	107	107	107	101	101	101	101
									185	86	87	87	87	108	107	107	107	101	101	101

		FY 2	006			FY 20	07			FY 200)8			FY 2	009		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	77	77	77	76	101	101	101	100	59	59	59	58	93	93	93	92	1472	4153
Outputs	101	77	77	77	76	101	101	101	100	59	59	59	58	93	93	93	1564	4153

METHOD OF IMPLEMENTATION:	OLR Team		ADMINISTRATIVE LEADTIN	1E:	5 Months	PRODUCTI	ON LEADTIME:	6 Months
Contract Dates:	FY 2002	Mar 02	FY 2003	Dec 02		FY 2004	Dec 03	
Delivery Date:	FY 2002	Aug 02	FY 2003	May 03		FY 2004	May 03	

INDIVIDUAL MODIFICATION

Date:

February 2002

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

FINANCIAL PLAN: (\$ in Millions)

a: Qty	nd P																			
Otv		ПОГ	FY 2	001	FY 2	002	FY 2	003	FY 2	2004	FY 2	005	FY 2	006	FY 2	2007	Т	C	TOT	ΓAL
₹9	y	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity					367	11.0	330	9.3	526	15.0	281	8.8	333	9.0	473	13.3	1843	195.5	4153	261.9
Installation Kits					367	3.9	330	3.3	526	5.1	281	2.9	333	2.8	473	4.5	1843	43.6	4153	66.1
Installation Kits, Nonrecurring						0.6		8.5				0.2						6.8		16.1
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders								0.7		0.9		0.2		0.1		0.0		9.9		11.8
Data																		8.1		8.1
Training Equipment						0.6		0.5										3.9		5.0
Support Equipment																				
Other - PM Admin						0.9		1.4		1.3		0.9		0.8		1.1		11.6		18.0
Fielding								0.1		0.1		0.1		0.1		0.1				0.5
Installation of Hardware																				
FY 2000 & Prior Equip Kits																				
FY 2001 Kits																				
FY 2002 Equip Kits					185	1.9	182	1.9											367	3.8
FY 2003 Equip Kits							165	1.7	165	1.7									330	3.4
FY 2004 Equip Kits									264	2.8	262	2.7							526	5.5
FY 2005 Equip Kits											142	1.5	139	1.3					281	2.8
FY 2006 Equip Kits													168	1.6	165	1.5			333	3.1
FY 2007 Equip Kits															238	2.2	235	2.3	473	4.5
TC Equip- Kits																	1843	72.1	1843	72.1
Total Installment		0.0		0.0	185	1.9	347	3.6	429	4.5	404	4.2	307	2.9	403	3.7	2078	74.4	4153	95.2
Total Procurement Cost		0.0		0.0		18.9		27.4		26.9		17.3		15.7		22.7		353.8		482.7

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	nte:	F	ebruary 2002							
Appropriation/Budget Acti Aircraft Procurement, Army /3.		arts				P-1 Item Nom SPA		AIR) (AA0950))								
Program Elements for Cod	e B Items:			Code:	Other Relat	ed Program Ele	ements:										
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog					
Proc Qty																	
Gross Cost												1157.2					
Less PY Adv Proc																	
Plus CY Adv Proc																	
Net Proc (P-1)	927.8	27.3	14.1	5.0	7.3	7.7	16.0	17.6	17.7	7.3	109.3	1157.2					
Initial Spares																	
Total Proc Cost	927.8	27.3	14.1	5.0	7.3	7.7	16.0	17.6	17.7	7.3	109.3	1157.2					
Flyaway U/C																	
Wpn Sys Proc U/C																	

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

Justification:

The funds in this account procure depot level reparables (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded.

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Г	ate:	I	February 2002		
Appropriation/Budget Act Aircraft Procurement, Army /-		and facilities				P-1 Item Nom AIR		RVIVABILITY	EQUIPMENT	(AZ3504)		
Program Elements for Coo	de B Items:			Code:	Other Relat	ed Program El	ements:	SSN AA07	20; PE/Project	0604270A/66	5	
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		2										2
Gross Cost	874.1	10.4	15.3	9.9 37.5 94								
Less PY Adv Proc	11.6											11.6
Plus CY Adv Proc	11.6											11.6
Net Proc (P-1)	874.1	10.4	15.3	9.9	37.5							947.3
Initial Spares	51.9	0.6			2.0							54.5
Total Proc Cost	926.0	11.0	15.3	9.9	39.5							1001.8
Flyaway U/C												
Wpn Sys Proc U/C					18.8							

AZ3504 is a summary rollup of SSN AZ3506, which includes the Aircraft Survivability Equipment Trainer IV (ASET IV), and SSN AZ3508, which includes the AN/ALQ-211, Suite of Integrated Radio Frequency Countermeasures (SIRFC) and the AN/AVR-2A, Laser Detecting Set.

The ASET IV is a ground based, mobile aviation threat emitter simulation and training system, which enables aircrews of Army Aviation Platforms a full capability to recognize surface-to-airmissiles (SAM) and anti-aircraft artillery (AAA) threats in order to employ the correct aircraft threat avoidance tactics. Eight systems have been produced and are being upgraded to simulate the most current SAM and AAA threats, as well as to locate, identify, and track aircraft at night through the use of night vision cameras. The SIRFC consists of the Advanced Threat Warning Receiver and the Advanced Threat Radar Jammer. The SIRFC will replace the current Aircraft Survivability Equipment (ASE) AN/APR-39, AN/APR-44, AN/ALQ-136 and AN/ALQ-162. SIRFC is an ASE project with OSD oversight and high joint interest. The Air Force Special Operations Command has selected SIRFC to be its bus controller and sensor fusion processor for the CV-22, and SIRFC has application to Army Special Operations Aircraft, as well as Air Force and Navy aircraft. The AN/AVR-2A is a passive threat laser warning system that alerts the aircrew that they are being targeted by threat forces allowing the aircrew to engage the target or maneuvers to break the targeting. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

SIRFC procurement for FY03-07 is funded by the Special Operations Command.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement, Army	/4/		P-1 Line I AIRCRAFT	tem Nomenclature SURVIVABILITY	e: EQUIPMENT (AZ3:	504)	Weapon System 7	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ASE Warning Receivers ASE Radar CM					3963 5945			4969 32576	2	16288			
Total					9908			37545					

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Ι	Oate:	I	February 2002	,	
Appropriation/Budget Act Aircraft Procurement, Army /4		and facilities				P-1 Item Non ASI		M (AZ3508)				
Program Elements for Coc	le B Items:			Code:	Other Relat	ed Program El	ements:	SSN AA07	20; PE/Project	0604270A/66	55	
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					2							2
Gross Cost	94.3	3.0	3.0	5.9	37.5							143.9
Less PY Adv Proc	11.6											11.6
Plus CY Adv Proc	11.6											11.6
Net Proc (P-1)	94.3	3.0	3.0	5.9	37.5							143.9
Initial Spares	51.9	0.6			2.0							54.5
Total Proc Cost	146.2	3.6	3.0	5.9	39.5							198.4
Flyaway U/C												
Wpn Sys Proc U/C					18.8							

Aircraft Survivability Equipment Radar Countermeasure, LIN AZ3508, is a summary rollup for the AN/ALQ-211, Suite of Integrated Radio Frequency Countermeasures (SIRFC) and the Laser Detecting Set, AN/AVR-2A. The SIRFC consists of the Advanced Threat Warning Receiver and the Advanced Threat Radar Jammer. The SIRFC will replace the current Aircraft Survivability Equipment (ASE) AN/APR-39, AN/APR-44, AN/ALQ-136 and AN/ALQ-162. SIRFC is an ASE project with OSD oversight and high joint interest. The Air Force Special Operations Command has selected SIRFC to be its bus controller and sensor fusion processor for the CV-22, and SIRFC has application to Army Special Operations Aircraft, as well as Air Force and Navy aircraft. The AN/AVR-2A is a passive threat laser warning system that alerts the aircrew that they are being targeted by threat forces allowing the aircrew to engage the target or maneuver to break the targeting. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

SIRFC procurement for MH-47 and MH-60 SOA for FY03-07 is funded by the Special Operations Command.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/E Aircraft Procus Support equips	rement, Army	/4/			tem Nomenclaturo AR CM (AZ3508)	e:		Weapon System	Гуре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AZ3508 - ASE RADAR COUNTERMEASURES Suite of Integrated Radio Freq CMS (SIRFC) Nonrecurring Engineering Platform Integration (MH-47 and MH-60) Project Management SIRFC Recurring Hardware (A Kit/B Kit) SUBTOTAL - SIRFC AN/AVR-2A Laser Warning System Acquisition and Fielding Project Management SUBTOTAL - AN/AVR-2A					5645 300 5945			3000 23281 295 6000 32576 4739 230 4969	2	3000			
Total					5945			37545					

Method and Type	Location of PCO CECOM, Ft. Monmouth, NJ	Award Date May 02 May 02	P-1 Line It ASE RADAR of Date of First Delivery May 04 May 03		Unit Cost \$ 2600	Specs Avail Now?	Date Revsn Avail	RFP Iss Date
SIRFC Recurring Hardware (A Kit/B Kit) FY 2002 ITT Corporation (B Kit) C/FFP Clifton, NJ FY 2002 Boeing (A Kit) C/FFP	CECOM, Ft. Monmouth, NJ	May 02	Delivery May 04	Each 2	s 2600	Now?	Revsn	RFP Iss Date
FY 2002 ITT Corporation (B Kit) C/FFP Clifton, NJ FY 2002 Boeing (A Kit) C/FFP						Yes		
					400	No		

	FY 03 / 04 BUDGET PR	ROD	UCTION	SCH	I EDU L	E			Item N				8)										-	Date:			Feb	ruary	2002			
												Fis	scal Y	'ear ()3									F	iscal	Year	04					
				S	PROC	ACCEP	BAL			_					Cale	endar	Year	r 03								Calen	dar Y	Year (4			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
Aì	N/ALQ-211, SIRFC												_																			
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		2	FY 02	A	2	0	2		П						2																	0
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M			PR	ODUCTI	ON RATES			М	FR						ADM	IINLE	AD T	IME			MFR			TOTA	L	R	EMAF	KS				
F							REACHED	Nur	nber					Pri	ior 1 O	ct	Af	ter 1 C)ct	Ai	fter 1 (Oct	A	fter 1	Oct	_						
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					0			1			24			25		1						
1	ITT Corporation (B Kit), Clifton, NJ		1.00		144.00	200.00	0		1	REO	RDER				0			1			24			25								
2	Boeing (A Kit), Philadelphia, PA		1.00		144.00	200.00	0		2	INIT					0			1			12			13		1						
											RDER				0			1			12			13		4						
L									-	INIT			_													4						
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\vdash									-	INIT		-	-			_										4						
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Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Г	ate:	I	February 2002		
Appropriation/Budget Ac Aircraft Procurement, Army		and facilities				P-1 Item Nom ASI		O CM (AZ3507)	ı			
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program El	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					26							26
Gross Cost	22.7				43.4							66.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.7				43.4							66.1
Initial Spares												
Total Proc Cost	22.7				43.4							66.1
Flyaway U/C												
Wpn Sys Proc U/C												

The US Army (USA) operational requirements concept for infrared (IR) countermeasure systems is known as the Suite of Integrated IR 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 Advanced Threat Infrared Countermeasures (ATIRCM)/Common Missile Warning System (CMWS) program. The ATIRCM/CMWS, a subsystem to a host aircraft, is an integrated ultra violet (UV) missile plume detecting warning system and an IR lamp/laser/expendable countermeasures system. The ATIRCM/CMWS includes an Improved Countermeasure Dispenser (ICMD) capable of loading and employing three or more types of expendables, such as flares, chaff and smoke/aerosol. 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, activating expendables to provide the required degree of protection. SIIRCM(-) is a fielded subset that has been established to meet near term requirements. SIIRCM(-) consists of CMWS, munitions and dispensers. An urgent requirement has been validated to install the SIIRCM(-) on the MH-47 and MH-60 Special Operations Aircraft (SOA). Lack of an updated SIIRCM(-) capability on SOA limit the ability and effectiveness of the aircraft in meeting advanced threats in current and future operational environments. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

ATIRCM/CMWS procurement for the MH-47 and MH-60 for FY03-07 is funded by the Special Operations Command.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement Army	/4/		P-1 Line It	tem Nomenclaturo ARED CM (AZ3507)	e:)		Weapon System	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Recurring Hardware (SIIRCM(-)) AIRCMM Flares Nonrecurring Engineering System Engineering Training Engineering Changes In-house/Matrix Support Project Management	В							20165 2200 6884 7603 81 44 4579 1833		776			
Total								43389					

Exhibit P-5a, Budget Procurement Hist	ory and Planning							Date: F	ebruary 20	002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syster	m Type:		P-1 Line Ite ASE INFRARE	em Nomenc ED CM (AZ3507				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Recurring Hardware (SHRCM(-)) FY 2002	BAE Systems Nashua, NH	SS/FFP	CECOM, Ft. Monmouth, NJ	Feb 02	Nov 02	26	776	Yes		
REMARKS:										

	FY 02 / 03 BUDGET PF	ROD	UCTION	SCH	EDUL	E			Item N INFR				3507)											Date):		F	ebru	ary 20	002			
												Fis	scal Y	'ear ()2										Fisca	l Ye	ar 03						
				S	PROC	ACCEP	BAL								Cale	ndar	Yea	r 02					┺			Cal	lenda	_	ar 03	_			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	: A]]	A M P A R	M A Y	J U N	J U L	A U G	S E P	T E R
Re	curring Hardware (SIIRCM(-))									\dashv			\dashv			\dashv							H	+	+	╈	+	+	\dashv				
		1	FY 02	A	26	0	26					Α									6	5 (6	6	6	2							0
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F							REACHED	Nur	nber					Pri	ior 1 Oc	ct	Af	fter 1 C	Oct	A	fter 1	Oct		After	l Oct	_							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					0			4			10			14		4							
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Ex	hibit P-40	, Budge	t Item J	ustifica	tion Sh	eet	Da	te:	F	ebruary 2002		
Appropriation/Budget A Aircraft Procurement, Army		and facilities				P-1 Item Nom AIR		IMAND & CC	NTROL (AA0	0710)		
Program Elements for Co	ode B Items:			Code:	Other Relat	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty						7	12	15	16			50
Gross Cost	42.2					27.7	42.3	51.8	55.7			219.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	42.2					27.7	42.3	51.8	55.7			219.7
Initial Spares												
Total Proc Cost	42.2					27.7	42.3	51.8	55.7			219.7
Flyaway U/C												
Wpn Sys Proc U/C												

The Airborne Command & Control budget line includes the Army Airborne Command and Control System (A2C2S) that supports the Legacy-to-Objective transition path of the Transformation Campaign Plan.

The Army Airborne Command and Control System (A2C2S) is the Army's only airborne C2 system supporting corps, division and brigade commanders. This system is critical to enhance the Battle Command Group's ability to effectively perform combat unit operations and serve as a force multiplier in Army XXI. It provides the capability to access the tactical internet to manipulate, store, manage and analyze situational awareness information, intelligence data, mission plans and mission progress data to support the command and control decision making process. The A2C2S will provide situational awareness and command & control by hosting the Army Battle Command System (ABCS) such as Maneuver Control Systems (MCS), All Source Analysis System (ASAS), Advanced Field Artillery Tactical Data System (AFATDS) and Force XXI Battle Command Brigade and Below (FBCB2). In addition to line-of-sight Combat Net Radios (including Single Channel Ground Airborne Radio System (SINCGARS), Advanced System Improvement Program (ASIP) and HAVEQUICK II, the A2C2S capabilities supports deep operations with non-line-of-sight radios such as High Frequency (HF) and Demand Assigned Multiple Access (DAMA) and Satellite Communications System Satellite Command (SATCOM). In addition, the system has the potential to improve the ability of state, local and federal agencies to communicate and coordinate in a crisis environment such as hurricanes, forest fires or terrorist incidents using weapons of mass destruction.

Justification:

A2C2S - FY03 funding will be used to procure 7 LRIP systems and field 4 A2C2S. These systems will be used to help meet the Army's plan for digitization. These first systems will be fielded to the 4th Infantry Division, 1st Cavalry Division and III Corps to support the first digitized division and the first digitized corps concept. Thus, a modernized system will be deployed which allows for integration of information technologies to acquire, exchange and employ timely information needed for battle.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	Budget Activ rement, Army ment and facil	rity/Serial No. / 4 / ities		P-1 Line I	tem Nomenclature E COMMAND & CO	e: ONTROL (AA0710)		Weapon System	Гуре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A2C2S Project Management Administration Engineering Support System Test & Evaluation Fielding (NET,Tran,Spt Equip) Interim Contract Logistics Support Engineering Support											21334 1125 1386 407 1328 716 1442	7	3048
Total											27738		

Exhibit P-5a, Budget Procurement Hist	ory and Planning							Date:	ebruary 20	02
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syster	n Type:		P-1 Line Ite		ature: ONTROL (AA0710)			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
A2C2S FY 2003	Raytheon (A2C2S) Huntsville, AL	CPFF/FPI	AMCOM, AL	Aug 03	Sep 03	7	3048	No		Nov-01

REMARKS: A2C2S-The competitively awarded system demonstration contract, awarded with RDTE funding in FY02, included an FY03 LRIP option. Quantities are based on B-Kits (Mission equipment packages including communication suite and ADP equipment).

	FY 03 / 04 BUDGET 1	PROD	UCTION	SCF	IEDUL	E			Item N BORN				& CC	NTR	OL (A	1 A07	10)							Date:			Feb	ruary :	2002			
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				S	PROC	ACCEP PRIOR	BAL								Cale	endar	Yea	r 03							_	_		ear 0	4			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
A20	C2S																															
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M			PR	ODUCT	ION RATES			М	IFR						ADM	IINLE	AD T	IME			MFR			ТОТА	L	R	EMAR	.KS				
F							REACHED	Nu	mber					Pri	ior 1 O	ct	Ai	fter 1 C	Oct	A	fter 1 (Oct	A	fter 1	Oct							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					0			0			1			1		4						
1	Raytheon (A2C2S), Huntsville, AL		6.00		16.00	16.00	0		-		RDER				0			0			0			0		1						
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Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /4		and facilities				P-1 Item Nom AVI		PORT EQUIPM	IENT (AZ300	0)		
Program Elements for Cod	le B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty			963	980	988	694	1690	492	235			6042
Gross Cost	507.8	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		577.2
Less PY Adv Proc	5.0											5.0
Plus CY Adv Proc	5.0											5.0
Net Proc (P-1)	507.8	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		577.2
Initial Spares	22.7											22.7
Total Proc Cost	530.5	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		599.9
Flyaway U/C												
Wpn Sys Proc U/C			9.2	9.9	10.1	14.8	10.4	17.3	16.1			

Description:Consists of a family of avionics support equipment. Current program consists of the Aviators' Night Vision Imaging System (ANVIS) and the Heads Up Display (HUD). This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

Exh	ibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	ate:	F	February 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /4.		and facilities				P-1 Item Nom AN	enclature VIS/HUD (K	35601)				
Program Elements for Cod	e B Items:			Code: A	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1962		963	980	988	694	1690	492	235			8004
Gross Cost	396.2	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		465.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	396.2	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		465.5
Initial Spares	22.0											22.0
Total Proc Cost	418.2	2.5	8.9	9.9	12.8	7.5	15.0	5.8	3.9	3.0		487.5
Flyaway U/C												
Wpn Sys Proc U/C			9.2	10.1	12.9	10.8	8.9	11.9	16.5			

The AN/AVS-6, Aviator's Night Vision Imaging System (ANVIS), supports the Army Transformation objectives by permitting superior tactical mobility of legacy aircraft during darkness and low light conditions. AN/AVS-6 is a binocular, helmet-mounted system for Aviation crew members. The AN/AVS-6(V)3 is an enhanced night vision goggle that significantly expands the input sensitivity and dynamic range to support operations in conditions that vary from "overcast starlight" through strong urban lighting. The increased capability yields enhanced mission performance and improved safety of flight compared to what is now possible using current AN/AVS-6 systems. The ANVIS AN/AVS-6(V)3 supports the legacy force.

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

The AN/AVS-6(V)3 enhances survivability, lethality, and tactical mobility for aviation assets of the Legacy and Interim Forces. This system support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 2003 procures AN/AVS-6(V)3 systems for fielding 2nd Infantry Division (2ID) and 101st Air Assault (AA).

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/I Aircraft Procu Support equip	rement, Army	/ 4 /		P-1 Line I ANVIS/HU	tem Nomenclature D (K35601)) :		Weapon System	Гуре:	Date: Februa	ary 2002
ACFT ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K35601 ANVIS/HUD ANVIS Engineering Support Project Management Admin Engineering Change Orders Testing Fielding Helmets (HGU-56P)				7193 1138 379 364 834	980	8	7435 1121 374 225 135 3500	995	8	5608 1157 386 168 175	736	8
Total				9908			12790			7494		

Contractor and Location ON PE, AZ NOKE, VA	Contract Method and Type OPTION OPTION C/FFP OPTION	Location of PCO CECOM CECOM CECOM CECOM CECOM	Award Date Jan 02 Jan 02 Apr 02	P-1 Line Ite ANVIS/HUD (I Date of First Delivery Oct 02 Oct 02 Apr 03		Unit Cost \$ 7 7	Specs Avail Now? Yes	Date Revsn Avail	RFP Issue Date
ON PE, AZ NOKE, VA	Method and Type OPTION OPTION C/FFP	CECOM CECOM CECOM	Jan 02 Jan 02	Oct 02 Oct 02	565 415	s 7 7	Avail Now? Yes	Revsn	RFP Issu Date
PE, AZ NOKE, VA	OPTION C/FFP	CECOM CECOM	Jan 02	Oct 02	415	7			
PE, AZ NOKE, VA	OPTION C/FFP	CECOM CECOM	Jan 02	Oct 02	415	7			
NOKE, VA	C/FFP	CECOM					Yes		4
			Apr 02	Apr 03	995				
	OPTION	CECOM				7	Yes		1QFY0
			Dec 02	Oct 03	736	8	Yes		1QFY0

	FY 01 / 02 BUDGET P	ROL	UCTION	SCH	IEDUL:	E			tem N IS/HU]	Date:			Feb	ruary	2002			
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	COST ELEMENTS	M F R	FY	E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
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		1	FY 01	A	565	0	565													Г		30	Δ	, 30) 3(0.	0 00	100	100	173	1/3	565
		2	FY 01	A	415	0	415																Α					\vdash	т			415
		3	FY 02	A	995	0	995																А				\		т			995
		3	FY 03	A	736	0	736																			-	1		\vdash			736
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F							REACHED	Nun	nber					Pri	ior 1 O	ct	Ai	fter 1 C	Oct	A	fter 1 (Oct	A	fter 1	Oct					ayed o		
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+			INIT	IAL				4			4			12			16		ad	dition	al tes	ting fo	or air v	vorth	iness.
1	LITTON, TEMPE, AZ		25.00		50.00	200.00	120	1		REO	RDER				1			1			9			10								
2	ITT, ROANOKE, VA		25.00		50.00	200.00	120	2	,	INIT	IAL				4			4			12			16								
3	TBS, TBD		25.00		50.00	200.00	120			REO	RDER				1			1			9			10								
4	Multiple, Multiple		50.00		100.00	400.00	0	3	3	INIT	IAL				4			4			12			16								
								Ů		REO	RDER				1			1			9			10								
								4	1	INIT	IAL				0			0			0			0		1						
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	FY 03 / 04 BUDGET PR	ROD	UCTION	SCH	IEDUL	E					nclatuı K3560													Date:			Fe	bruai	ry 20	002			
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				S	PROC	ACCEP	BAL								Cale	endar	· Yea	r 03								Cale	ndar	Year	r 04				L
		M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	I J	j J	J U L	A U G	S E P	A T E R
K3	5601 ANVIS/HUD										Н														+	╁	+	+	+	+			
		4	FY 00 ⪻	A	963	963	0																			T	\top	\top	\top			┪	0
		1	FY 01	A	565	0	565	100	100	100	100	100	65													Т			\top				0
		2	FY 01	A	415	0	415	75			75	75	40													Т			\top				0
		3	FY 02	A	995	0	995							69	174	156	149	149	149	149			Г			Т		Т	Т				0
		3	FY 03	A	736	0	736			Α							- 1,		- 1,	31	99	99	99	9 7.	4 7	4 6	i9 <i>6</i>	59	69	53			0
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R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+			INIT	TAL				4			4			12			16		1							
1	LITTON, TEMPE, AZ		25.00		50.00	200.00	120	1			RDER				1			1			9			10		1							
2	ITT, ROANOKE, VA		25.00		50.00	200.00	120			INIT	TAL				4			4			12			16		1							
3	TBS, TBD		25.00		50.00	200.00	120	2		REO	RDER				1			1			9			10		1							
4	Multiple, Multiple		50.00		100.00	400.00	0	3		INIT	TAL				4			4			12			16		1							
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Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	ite:	F	ebruary 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /4		and facilities				P-1 Item Nom COM		JND EQUIPM	ENT (AZ3100)		
Program Elements for Cod	e B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	739.6	22.4	14.4	11.8	19.0	18.1	19.5	17.2	17.9	18.4		898.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	739.6	22.4	14.4	11.8	19.0	18.1	19.5	17.2	17.9	18.4		898.2
Initial Spares	4.9											4.9
Total Proc Cost	744.5	22.4	14.4	11.8	19.0	18.1	19.5	17.2	17.9	18.4		903.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:Program provides for Aviation Ground Support Equipment including Sets, Kits and Outfits.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement, Army	/4/		P-1 Line I COMMON	tem Nomenclatur GROUND EQUIPM	e: MENT (AZ3100)		Weapon System	Гуре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Aviation Ground Support Equipment					11817			18975			18091		
Total					11817			18975			18091		

Exh	ibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	D	ate:	F	ebruary 2002		
Appropriation/Budget Acti Aircraft Procurement, Army /4		and facilities				P-1 Item Nom AVI		UND SUPPOR	RT EQUIPMEN	NT (AZ3520)		
Program Elements for Cod	e B Items:			Code:	Other Relat	ed Program Ele	ements:	63801/B32	63801/B33			
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	370.1	12.9	9.6	11.8	19.0	18.1	19.5	17.2	17.9	18.4		514.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	370.1	12.9	9.6	11.8	19.0	18.1	19.5	17.2	17.9	18.4		514.5
Initial Spares	4.9											4.9
Total Proc Cost	375.0	12.9	9.6	11.8	19.0	18.1	19.5	17.2	17.9	18.4		519.4
Flyaway U/C												
Wpn Sys Proc U/C												

Aviation Ground Support Equipment (AGSE) is necessary to make an aircraft, or one of its associated systems or subsystems, operational in its intended environments. This includes all equipment required to guide, control, inspect, test, adjust, calibrate, assess, gauge, assemble, disassemble, handle, transport, store, actuate, service, repair and/or overhaul the aircraft system or subsystems. Included are such items as aviation ground power units, hydraulic test stands, tool shop sets, etc.

Justification:

FY 03 funding will achieve and sustain the operational readiness of all Army aviation field units which are operating AH-64, UH-60, CH-47, OH-58D and other Army aircraft. Aviation Ground Support Equipment (AGSE) also provides a means to correct safety-of-flight discrepancies which endanger both life and property. More aircraft being added to the Army inventory, modernization of aircraft, fielding of new aviation units, and the diversification of aviation missions creates an ever-increasing requirement for AGSE. The Unit Maintenance Aerial Recovery Kit (UMARK) will provide Aviation Intermediate Maintenance (AVIM) and Aviation Unit Maintenance (AVUM) organizations the capability to quickly rig for aerial recovery, aircraft on the battlefield that cannot be repaired, nonflyable aircraft undergoing maintenance, heavily damaged aircraft and crash damaged aircraft. AVIM Shop Set Complexes provide a transportable aviation intermediate and limited depot level maintenance capability in force projection or contingency operations. The AVIM Containerization and Modernization Program (CAMP) provides deployability of AVIM Shop Set complexes using organic vehicles operated by aircraft mechanics thus meeting the requirement to conduct split operations in a developing theater. International Standardized Organization (ISO) one-sided expandable shelters house AVIM Shop Set complexes and provide the capability of maritime shipboard movement through commercial ports and are compatible with military/commercial roll-on/roll-off ships and military/commercial ground transportation. Battle Damage Assessment Repair (BDAR) kits will provide an expeditious means for combat damage assessment (deferment or repairs) to allow a quick return of helicopters to combat usage. The Aircraft Cleaning and Deicing System (ACDS) will provide for dispensing of premixed cleaners, deicers and water through a nozzle and wand assembly at the temperature and pressure appropriate for the task. Aviation Ground Power Units (AGPU) will provide the capability to m

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/B Aircraft Procus Support equipr	rement, Army	/4/			tem Nomenclature GROUND SUPPOR			Weapon System	Гуре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Nondestructive Test Equipment (NDTE) Hardware (NDTE) Program Management Support NET Fielding								1440 190 20 10	120	12	1440 224 50 20	120	12
Subtotal								1660			1734		
Flexible Engine Diagnostic System (FEDS) CCAD Support Program Management Support Software Upgrade Prototype Updates Fielding					699 130 14			2100 378 600 300					
Subtotal					843			3378					
Shop Equipment Contact Maintenance (SECM) Light Weight Power System Program Management Support Fielding					28 143			485 62 10			1067 157 20		
Subtotal					171			557			1244		
Aircraft Vibration Analyzer (AVA) MOD Hardware (AVA MOD) Program Management Support Fielding					100			2580 335 50	129	20	3000 445 50	150	20
Subtotal					100			2965			3495		
Generic Aircraft Nitrogen Generator (GANG) Fielding Subtotal New Aviation Tool Set (NATS) Retrofit					49 49			60 60					
Retrofit					1301								

Exhibit P-5, Weapon ACFT Cost Analysis	Aircraft Pro	n/Budget Activ curement, Army ipment and faci				tem Nomenclature GROUND SUPPOR		Z3520)	Weapon System	Гуре:	Date: Febru	ary 2002
ACFT ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements CE	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Program Management Support Fielding				217			10					
Subtotal				1518			10					
Aviation Ground Power Unit (AGPU) MOD Hardware (AGPU MOD) Program Management Support Fielding				28 180			1000 130	13	77	1000 157		77
Subtotal				208			1130			1157		
AVIM Shop Sets Hardware (AVIM Shop Sets) Hardware (AVIM ISO Shelters) Program Management Support Shelter Refurbishment Fielding				3567 2485 1045 228 10	4 42	892 60	3567 1620 713 456 12	4 27		5		
Subtotal				7335			6368			5		
Containerization and Modernization Program (CAMP) Shop Sets Hardware (CAMP Shop Sets) Hardware (CAMP ISO Shelters) Program Management Support Shelter Refurbishment										2370 1020 560 456	17	790 60
Subtotal										4406		
Unit Maintenance Aerial Recovery Kit (UMARK) Hardware w/crossbar (UMARK) Hardware w/o crossbar (UMARK) Program Management Support Fielding Subtotal							1980 300 291 16 2587	44 20		2295 555 405 11 3266	37	45 15

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/B Aircraft Procur Support equipm	rement, Army	/4/			tem Nomenclaturo I GROUND SUPPOI		Z3520)	Weapon System	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Battle Damage Assessment Repair Kit (BDAR) Hardware (BDAR Composite) Hardware (BDAR Fiber Optic)											280 100	20	14 5
Hardware (BDAR Electrical) Hardware (BDAR Fluid Line) Program Management Support NET Fielding											100 100 90 30 25	20	5 5
Subtotal											725		
Aircraft Cleaning and Deicing System (ACDS) Hardware (ACDS) Program Management Support Fielding											1300 202 12		50
Subtotal											1514		
Digital Aircraft Weight Scales (DAWS) Hardware (DAWS) Fielding								240 20	12	20	520 25		20
Subtotal								260			545		
AWCF Quarterly Adjustment (CCAD)					1593								
Subtotal					1593								
Total					11817			18975			18091		

Exhibit P-5a, Budget Procurement History and Planning								Date: February 2002			
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syste	Weapon System Type:				P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (A)				
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 Issu Date	
Nondestructive Test Equipment (NDTE)											
Hardware (NDTE)											
FY 2002	TBS	C/FP	AMCOM	MAY 02	MAY 03	120	12	YES			
FY 2003	TBS	C/FP-O	AMCOM	MAY 03	MAY 04	120	12	YES			
Aircraft Vibration Analyzer (AVA) MOD											
Hardware (AVA MOD)											
FY 2002	TBS	C/FP	AMCOM	MAY 02	MAY 03	129	20	YES			
FY 2003	TBS	C/FP-O	AMCOM	MAY 03	MAY 04	150	20	YES			
Hardware (AGPU MOD)											
FY 2002	OLR Savannah, GA	MIPR	AMCOM	MAR 02	MAY 02	13	77	YES			
FY 2003	OLR Savannah, GA	MIPR	AMCOM	MAR 03	MAY 03	13	77	YES			
AVIM Shop Sets											
Hardware (AVIM Shop Sets)											
FY 2001	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	DEC 00	MAY 01	4	892	YES			
FY 2002	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	JAN 02	MAY 02	4	892	YES			

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning							Date: February 2002			
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syste	Weapon System Type:				P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ			
VBS 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 Iss Date
Hardware (AVIM ISO Shelters)										
FY 2001	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	DEC 00	MAY 01	42	60	YES		
FY 2002	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	JAN 02	MAY 02	27	60	YES		
Containerization and Modernization										
Program (CAMP) Shop Sets										
Hardware (CAMP Shop Sets)										
FY 2003	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	JUN 03	OCT 03	3	790	YES		
Hardware (CAMP ISO Shelters)										
FY 2003	Rock Island Arsenal Rock Island, IL	MIPR	AMCOM	JUN 03	OCT 03	17	60	YES		
Unit Maintenance Aerial Recovery Kit										
(UMARK)										
Hardware w/crossbar (UMARK)										
FY 2002	KAMAN Aerospace Corp Bloomfield, CT	SS/FP	AMCOM	MAR 02	DEC 02	44	45	YES		
FY 2003	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	MAR 03	DEC 03	51	45	YES		
Hardware w/o crossbar (UMARK)										

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning							Date: February 2002			
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syste	Weapon System Type:				P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ			
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 Iss Date
FY 2002	KAMAN Aerospace Corp Bloomfield, CT	SS/FP	AMCOM	MAR 02	DEC 02	20	15	YES		
FY 2003	KAMAN Aerospace Corp Bloomfield, CT	SS/FP-O	AMCOM	MAR 03	DEC 03	37	15	YES		
Battle Damage Assessment Repair Kit (BDAR)										
Hardware (BDAR Composite)										
FY 2003 Hardware (BDAR Fiber Optic)	TBS	C/FP	AMCOM	JUN 03	DEC 03	20	14	YES		
FY 2003 Hardware (BDAR Electrical)	TBS	C/FP	AMCOM	JUN 03	DEC 03	20	5	YES		
FY 2003 Hardware (BDAR Fluid Line)	TBS	C/FP	AMCOM	JUN 03	DEC 03	20	5	YES		
FY 2003 Aircraft Cleaning and Deicing System (ACDS)	TBS	C/FP	AMCOM	JUN 03	DEC 03	20	5	YES		
Hardware (ACDS)										

REMARKS:

Exhibit P-5a, Budget Procurement History and Planning								Date: February 2002					
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities		Weapon Syste	Weapon System Type:				P-1 Line Item Nomenclature: AVIATION GROUND SUPPORT EQUIPMENT (AZ3520)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date			
FY 2003 Digital Aircraft Weight Scales (DAWS) Hardware (DAWS) FY 2002 FY 2003	TBS TBS TBS	C/FP C/FP	AMCOM AMCOM AMCOM	JUN 03 APR 02 FEB 03	JUN 04 APR 03 FEB 04	26 12 26	20 20 20	YES YES YES					
REMARKS:													

Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Γ	ate:	I	February 2002			
Appropriation/Budget A Aircraft Procurement, Army		and facilities				P-1 Item Nom AIR		EGRATED SYS	STEMS (AZ31	10)			
Program Elements for C	ode B Items:			Code:	Other Relate	ed Program Ele	ements:	RDTE 6438	301 (DB45) an	d 654801 (DC	45)		
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog		
Proc Qty													
Gross Cost	61.5	8.7	17.2	10.5	10.2	15.2	34.7	34.5	35.6	36.7		264.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	61.5	8.7	17.2	10.5	10.2	15.2	34.7	34.5	35.6	36.7		264.8	
Initial Spares													
Total Proc Cost	61.5	8.7	17.2	10.5	10.2	10.2 15.2 34.7 34.5 35.6 36.7 20							
Flyaway U/C													
Wpn Sys Proc U/C													

The programs in Aircrew Integrated Systems (ACIS) provide improved aircrew safety, survivability and human performance that amplify the warfighting effectiveness of the Army Transformation aircraft, including the RAH-66 Comanche, AH-64A/D Apache, UH/HH-60L/M Blackhawk, OH-58D Kiowa Warrior, and CH-47D/F Chinook helicopters and Special Operations Aircraft. This Standard Study Number includes programs that improve the performance and safety of Army and Joint service aircrews and passengers in-flight on wartime and training missions throughout the flight profile, during an aircraft crash sequence and during the post-crash survival period prior to rescue. ACIS programs include the HGU-56/P Helmet, the Air Warrior system, Laser Eye Protective devices and the Cockpit Air Bag System (CABS). Specifically, the Air Warrior program is a vital soldier system, is linked to the Land Warrior program through the Soldier Systems Capstone Requirements Document and is one of the Army's 7 core programs for the objective force. Air Warrior provides a system level approach to Aviation Life Support Equipment including the flight helmet, laser eye protection, and survival gear to be used in an escape and evade scenario, microclimate cooling, sound attenuation devices, overwater equipment, night vision devices, extraction capability, chemical and biological protection, and the flight duty uniform. Air Warrior also includes the integration efforts on the RAH-66 Comanche, AH-64A/D Apache, UH/HH-60L/M Blackhawk, OH-58D Kiowa Warrior, and CH-47D/F Chinook helicopters and Special Operations Aircraft. Block 1 Air Warrior ensembles will be procured to integrate aircrew equipment for maximum aircrew effectiveness by providing increased mission performance and safety, reduction of equipment weight and bulk, and increased tailorability to specific missions, threats, and the various aircraft platforms operated. Air Warrior will enable the Army Aviation Warfighter to exceed the approved Operational Requirements Document Key Performance Parameter m

Justification:

FY03 procures the Air Warrior basic ensemble and aircraft platform integration and production. Aircraft Procurement, Army (APA) funding for all ACIS programs and projects is included in this budget line item.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement, Army	/4/			tem Nomenclature INTEGRATED SYS			Weapon System	Туре:	Date: Februa	ıry 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Cockpit Air Bag System (CABS) Production Helmets - HGU-56/P: National Guard Laser Eye Protective Devices Air Warrior Basic Ensembles					1414 4261 2378	40 4133 5236	35.4 1.0 0.5				4900	497	9
Subtotal Hardware Costs					8053						4900		
Air Warrior ECP Systems Integration Engineering Project Management Admin					1441 534			7154 1740 1185			7253 1740 1222		
Subtotal ECP, Sys Int, & Admin Costs					1975			10079			10215		
Support Costs Fielding					466			100			100		
Total					10494			10179			15215		

Exhibit P-5a, Budget Procurement	t History and Planning		Delivery Each S						ebruary 2	002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	es	Weapon Syste	em Type:							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date				Specs Avail Now?	Date Revsn Avail	RFP Iss Date
Cockpit Air Bag System (CABS) Production										
FY 2001	Simula, Inc. Phoenix, AZ	SS/FP	AATD, Ft. Eustis, VA	Jun 01	Nov 01	40	35.4	Yes		
Helmets - HGU-56/P: National Guard										
FY 2001	DLA Ft Belvoir, VA	Reqn	DLA	Mar 01	Aug 01	4133	1.0	Yes		
Laser Eye Protective Devices										
FY 2001	Thales Denbighshire, U.K.	SS/FP	Brooks AFB, TX or RSA, AL	Apr 01	Oct 01	5236	0.5	Yes		
Air Warrior Basic Ensembles										
FY 2003	TBS	C/FP	TBS	May 03	Jan 04	497	9.9	No	Aug-02	

REMARKS:

Ext	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	D	Date: February 2002							
Appropriation/Budget Ac Aircraft Procurement, Army		and facilities				P-1 Item Nom AIR		ONTROL (AA	0050)						
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:	0604633A/	586 Air Traffic	Control					
	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog							
Proc Qty															
Gross Cost	80.6	15.1	18.4	73.5	57.9	64.4	58.0	57.9	17.8	52.2		495.8			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	80.6	15.1	18.4	73.5	57.9	64.4	58.0	57.9	17.8	52.2		495.8			
Initial Spares															
Total Proc Cost	80.6	15.1	18.4	73.5	57.9	64.4	58.0	57.9	17.8	52.2		495.8			
Flyaway U/C				·											
Wpn Sys Proc U/C															

Fixed Base Air Traffic Control requirements will be met through a vast array of high technology solutions resulting in highly reliable and safe Air Traffic Control systems. The Joint DoD/Federal Aviation Administration(FAA) program will modernize the National Airspace System (NAS) to include upgrading and automating the complete infrastructure, systematically replacing antiquated analog systems (radars, communications switching system) and installing state of the art digital technology. These include the Voice Communication Switching System (VCSS), the DoD Advanced Automation System (DAAS), and the Digital Airport Surveillance Radar (DASR). The Fixed Base Precision Approach Radar (FBPAR) provides the Army's primary ground controlled precision approach capability to recover aircraft to fixed base facilities, ensuring safe landing in adverse weather conditions.

Tactical Air Traffic Control equipment includes Air Traffic Navigation Integration and Coordination System (ATNAVICS), the Tactical Airspace Integration System (TAIS), the Mobile Tower System (MOTS), and Cold Cathode Landing Lights as part of the Portable Airfield Lighting System (PALS). The ATNAVICS will provide all weather instrument flight capabilities to include enroute, terminal, and radar precision approach and landing services to all Army, Joint, and allied aircraft. The TAIS is a highly mobile, airspace synchronization and deconfliction system providing Army Airspace Command and Control (A2C2) and air traffic services capabilities to the First Digitized Division/Corps/Echelon Above Corps (EAC) and the ground maneuver commander on the future digitized battlefield. It will interface with the Army Battle Command System (ABCS) while providing ground commanders with automated A2C2 capability to support all Corp/Division/EAC digitization initiatives into the next century. The MOTS provides positive air traffic control and aircraft separation for both air and ground operations at all landing sites. Its capabilities include, weather information, secure and anti-jam communications across all required frequency bands and ranges, and precision location. The PALS, including Cold Cathode Lighting, provides positive visual cues for runway alignment and rate of descent, allows for lower descent altitudes during precision approaches, operates in the aided, un-aided, and Infared (IR) mode, and expedites Forward Area Rearming/Refueling Point (FARP) operations by providing positive directions to specified points. Both MOTS and PALS serve as effective risk management tools for aviation safety, especially during night and inclement weather operations.

Justification:

FY 03 funds for fixed base ATC systems will provide the Army a joint service capability to procure specific fixed base Air Traffic Control (ATC) systems required for the joint DoD Federal Aviation Administration (FAA) modernization and upgrade of the National Airspace System. These systems will save significant Operational and Support (O&S) costs through the replacement of old, obsolete, antiquated analog radars, switches, and automation systems with new, state of the art, highly reliable ATC systems in towers and approach control facilities.

Exhibit P-40C, Budget Item Justification Sheet				Date: February 2002
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
Equipment quantity and configuration will be tailored to meet specific site FAA systems. These new fixed base systems will be relatively easy to ma will ensure jointness among the Services and participating host nations. Fu low rate production and initial testing of the PALS system utilizing Cold C is obsolete and not economically supportable.	intain and wands for taction	rill provide control cal ATC sys	ommonality for both oper tems will provide for the	ational and maintenance training. Commonality and interoperability production of the TAIS, ATNAVICS, and MOTS, and provide for the

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/E Aircraft Procus Support equips	rement, Army	/ 4 /			tem Nomenclature FIC CONTROL (AA			Weapon System	Гуре:	Date: Febru	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Fixed Base Precision Approach Radar Hardware-Precision Approach Radar					3872	2	1936	11453	6	1909	11930	7	1705
Production Start Up Cost Interim Contractor Support (ICS) Engineer, Furnish & Install (EF&I)					124 2154			325 3591			497 4540		
Testing Fielding					314 413			150			255		
Data					103			135			200		
Subtotal Costs					6980			15654			17422		
Voice Communication Switching Syst(VCSS) Hardware (VCSS) Interim Contractor Support (FAA) Engineer, Furnish & Install (EF&I) Fielding					3729 30 1084 250	13	287	1259 56 848 255	6	210	2102 102 1056 225	7	301
Subtotal Cost					5093			2418			3485		
DoD Advanced Automation System (DAAS) Hardware (DAAS) Hardware (DAAS) Remote Tower Only Engineering Support Engineer, Furnish & Install (EF&I) Operational Support Facility (OSF) Training					2800 2587 922	1 4	2800 647	3519 446 150 1134 800 276	2 1		3773 531 250 1134 900 373	2 2	1887 266
Subtotal Costs					6309			6325			6961		
Digital Airport Survelliance Radar(DASR) Hardware (DASR) Other Associated Hardware Engineer, Furnish, & Install (EF&I)					1368			273			3118	1	3118
Subtotal Costs					1368			273			3118		
Tactical Airspace Integration Sys (TAIS) Hardware (TAIS) Production Software Support GFE					15790 8812 4981	6	2632	8823 4973 3500	4	2206	8650 5910 3540		2163

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement, Army	/4/			tem Nomenclature FIC CONTROL (AA			Weapon System	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Interim Contractor Support (ICS) Logistics Provisioning Data Testing Fielding/NET Subtotal Costs					2355 885 583 33406			721 200 900 19117			980 150 830 20060		
Air Traffic Navigation and Integration Hardware (ATNAVICS) Production Start Up Costs GFE Interim Contract Support (ICS) Testing Fielding P31					16595 1458 1315 125 473 342		2371	5799 3598 305 310 393 2200		2900	305 256 325 1503		2900
Subtotal Costs Mobile Tower System (MOTS) Hardware (MOTS) GFE Fielding Training Initial Spares Subtotal Costs					20308			12605			3800 904 176 171 125 5176	4	950
Cold Cathode Portable Landing Lights Hardware (Cold Cathode Lighting) Test Subtotal Costs								850 650 1500		425			
Total					73464			57892			64410		

Exhibit P-5a, Budget Procurement	nt History and Planning							Date: F	ebruary 2	002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facil	lities	Weapon Syste	ет Туре:		P-1 Line It					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Iss Date
Hardware-Precision Approach Radar										
FY 2001	Raytheon Cambridge, MA	C/FP-O	CECOM	Dec 00	Mar 02	2	1936	Yes		
FY 2002	Raytheon Cambridge, MA	C/FP-O	CECOM	Feb 02	May 03	6	1909	Yes		
FY 2003	Raytheon Cambridge, MA	C/FP-O	CECOM	Jan 03	Apr 04	7	1705	Yes		
Hardware (VCSS)										
FY 2001	Litton/Denro Gaithersburg MD	C/FP-O	FAA	Nov 00	May 01	13	287	Yes		
FY 2002	Litton/Denro Gaithersburg MD	C/FP-O	FAA	Jan 02	Jul 02	6	210	Yes		
FY 2003	Litton/Denro Gaithersburg MD	C/FP-O	FAA	Jan 03	Jul 03	7	301	Yes		
Hardware (DAAS)										
FY 2001	Raytheon Malborough MA	C/FP-O	FAA	Aug 01	Aug 02	1	2800	Yes		
FY 2002	Raytheon Malborough MA	C/FP-O	FAA	Apr 02	April 03	2	1760	Yes		
FY 2003	Raytheon Malborough MA	C/FP-O	FAA	Jan 03	Jan 04	2	1887	Yes		
Hardware (DAAS) Remote Tower Only										
FY 2001	Raytheon Cambridge, MA	C/FP-O	FAA	Aug 01	Aug 02	4	647	Yes		
FY 2002	Raytheon Cambridge, MA	C/FP-O	FAA	Apr 02	Apr 03	1	446	Yes		

AA0050 AIR TRAFFIC CONTROL

REMARKS:

Exhibit P-5a, Budget Procurem	ent History and Planning							Date:	ebruary 2	002
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and fa	cilities	Weapon Syste	ет Туре:			em Nomenc CONTROL (A				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Is Date
FY 2003	Raytheon Cambridge, MA	C/FP-O	FAA	Jan 03	Jan 04	2	266	Yes		
Hardware (DASR)										
FY 2003	Raytheon Cambridge, MA	C/FP-O	USAF	Jan 03	Jul 04	1	3118	Yes		
Hardware (TAIS)										
FY 2001	Motorola Huntsville, AL	C/FP-O	AMCOM	Dec 00	Mar 02	6	2632	Yes		
FY 2002	General Dynamics Falls Church Virginia	C/FP-O	AMCOM	Jan 02	Jan 03	4	2206	Yes		
FY 2003	General Dynamics Falls Church Virginia	C/FP-O	AMCOM	Jan 03	Jan 04	4	2163	Yes		
Hardware (ATNAVICS)										
FY 2001	Raytheon Cambridge, MA	C/FP-O	CECOM	Dec 00	Dec 01	7	2371	Yes		
FY 2002	Raytheon Cambridge, MA	C/FP-O	CECOM	May 02	Mar 03	2	2900	Yes		
FY 2003	Raytheon Cambridge, MA	C/FP-O	CECOM	Jan 03	Jan 04	2	2900	Yes		
Hardware (MOTS)										
FY 2003	TBD TBD	TBD	TBD	Feb 03	Feb 04	4	950	No	Mar 02	
Hardware (Cold Cathode Lighting)										
FY 2002	TBD TBD	TBD	TBD	May 02	May 03	2	425	No	Mar 02	

REMARKS:

Ext	nibit P-40	, Budge	t Item J	ustifica	tion Sho	eet	Da	Date: February 2002						
Appropriation/Budget Ac Aircraft Procurement, Army	tivity/Serial No: 4/Support equipment	and facilities				P-1 Item Nom IND		ACILITIES (AZ	23300)					
Program Elements for Co	de B Items:			Code:	Other Relat	ed Program Ele	ements:							
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog		
Proc Qty														
Gross Cost	174.0	1.5	1.4	1.4	0.7	0.7	1.2	1.2	1.3	1.4		185.0		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	174.0	1.5	1.4	1.4	0.7	0.7	1.2	1.2	1.3	1.4		185.0		
Initial Spares														
Total Proc Cost	Cost 174.0 1.5 1.4 1.4						1.2	1.2	1.3	1.4		185.0		
Flyaway U/C														
Wpn Sys Proc U/C														

This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment generally provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. This project procures airborne instrumentation and support equipment to collect in-flight compatibility, reliability, and safety measurements of Army aircraft. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Aviation Technical Test Center, Fort Rucker, AL. This project supports all transition paths of the Army Transformation Campaign Plan (TCP).

Justification:

FY03 procures: a mobile telemetry data reception and processing system to monitor airworthiness flight testing profiles and maintain communication with the test aircraft; Personal Computer (PC) based workstations and tools for data analysis and processing by test engineers; signal conditioners, sensors and transducers for on-board collection of aircraft performance data by common instrumentation; and a PC based telemetry data acquisition system to provide data management, processing, display, archival, playback and analysis of multi-stream telemetry data. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded it's economic life. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

Ex	hibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	Date: February 2002						
Appropriation/Budget Adarcraft Procurement, Army		and facilities				P-1 Item Nom LAU		5 ROCKET (A	50100)					
Program Elements for Co	ode B Items:			Code:	Other Relate	ed Program Ele	ements:							
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog		
Proc Qty														
Gross Cost	51.6				4.9	2.7	5.0	5.0	5.0	4.9		79.0		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	51.6				4.9	2.7	5.0	5.0	5.0	4.9		79.0		
Initial Spares														
Total Proc Cost	51.6				4.9	2.7	5.0	5.0	5.0	4.9		79.0		
Flyaway U/C														
Wpn Sys Proc U/C														

The M261 19-tube and M260 7-tube rocket launchers are used to fire 2.75 Inch HYDRA 70 rockets from the following platforms: AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. The aluminum launchers are inexpensive enough to be disposable yet durable enough to be reused after as many as 32 firings. The weight savings, as compared to previous launchers, allow the Army to add other features to the aircraft and rocket system for improved performance. The launcher permits fuze-timing selection from the cockpit and will launch rockets using either the MK 40 or the MK 66 motors. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 2003 procures M260 7-tube rocket launchers for AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. Procurement replaces launchers expended as a result of annual rocket firings for training and replenishes the limited issuable stockage that has been depleted below levels acceptable to support training and war reserve requirements of Active Army, Special Operations Forces and Reserve Component usage.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/E Aircraft Procu Support equip	Budget Activ rement, Army ment and facil	rity/Serial No. /4/ ities			tem Nomenclature R, 2.75 ROCKET (A			Weapon System	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
M260 (7-Tube Lightweight Launcher (LWL)) Hardware Support Total								4526 398		6.503	2460 217		6.631
Total M260								4924			2677		
Total								4924		7.075	2677		7.216
ı viai								7724		1.073	20//		7.210

Exhibit P-5a, Budget Procur	ement History and Planning							Date: I	ebruary 2	002
ppropriation/Budget Activity/Serial No: .ircraft Procurement, Army / 4 / Support equipment	and facilities	Weapon Syste	em Type:			em Nomeno 2.75 ROCKET (
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 Issi Date
Hardware FY 2002 FY 2003 REMARKS: Planned award of long-term (the	TBS TBS TBS ree year) competitive firm fixed price requirements of	C/FFP C/FFP	TACOM-RI TACOM-RI	Jun-02 Feb-03	Jun-03 Feb-04	696 371	6.503 6.631	YY		Feb-0 Feb-0

	FY 02 / 03 BUDGET PI	ROD	UCTION	SCH	I EDU L	E			Item N JNCHI				ET (A;	50100	0)									Date:			Feb	ruary	2002			
												Fis	scal Y	'ear 0)2									F	ìscal	Year	03					
				S	PROC	ACCEP	BAL								Cale	endar	Yea	r 02								Caler	dar Y	ear (3			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
На	ardware														_										\vdash							
		1	FY 02	A	696	0	696									Α												87	87	87	87	348
		1	FY 03	A	371	0	371		П															А								371
Тс	otal				1067		1067																					87	87	87	87	719
								O C T	N O V	D E C	Α	Е	Α	P	Α		J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	P	Α	J U N	J U L	A U G	S E P	
M			PR	ODUCTI	ON RATES			M	FR						ADM	IINLE	AD T	IME			MFR			TOTA	L	R	EMAR	KS				
F							REACHED	Nur	nber					Pri	or 1 Oc	ct	Af	fter 1 C)ct	Af	fter 1 (Oct	A	fter 1	Oct	1						
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+		1	INIT					6			9			12			21		1						
1	TBS		8.00		100.00	180.00	0		1		RDER				6			5			12			17		4						
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	FY 04 / 05 BUDGET P	ROD	UCTION	SCH	EDUL	E					nclatur .75 RC		ET (A:	50100	0)									Date:	:		Fe	bruary	y 200:	2		
												Fis	scal Y	'ear ()4									1	Fiscal	Year	r 05					
				S	PROC	ACCEP	BAL								Cale	endar	Yea	r 04								Cale	ndar	Year	05			L A
	COST ELEMENTS	M F R	FY	S E R V	QTY Each	PRIOR TO 1 OCT	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	T E R
На	ardware												\dashv		\dashv	\dashv									+	╁	+	+	╁		+	
		1	FY 02	A	696	348	348	87	87	87	87																		Т			0
		1	FY 03	A	371	0	371					31	31	31	31	31	31	31	31	31	31	31	30)					Т			0
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Тс	otal				1067	348	719	87	87	87	87	31	31	31	31	31	31	31	31	31	31	31	30)								
								O C T	N O V	D E C	Α	F E B	Α	A P R	Α		J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	Α	P	Α	U	U	U	Е	
M			PR	ODUCTI	ON RATES			MI	₹R						ADM	IINLE	AD T	IME			MFR			TOTA	AL	F	REMA	RKS				
F							REACHED	Nun	nber					Pri	or 1 O	ct	Af	fter 1 C	ct	Ai	fter 1 (Oct	Α	After 1	Oct							
R	NAME/LOCATION		MIN.		1-8-5	MAX.	D+	,		INIT	IAL				6			9			12			21								
1	TBS		8.00		100.00	180.00	0	1		REO	RDER				6			5			12			17								
_										INIT			_													4						
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										REO	RDER																					

Exl	nibit P-40	, Budge	t Item J	ustifica	tion She	eet	Da	ate:	I	February 2002		
Appropriation/Budget Ac Aircraft Procurement, Army		and facilities				P-1 Item Nom AIR		MMUNICATIO	NS (AA0705)			
Program Elements for Co	de B Items:			Code:	Other Relate	ed Program Ele	ements:					
	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	129.8	41.9	43.2	14.7	19.7	44.5	25.1	10.0				328.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	129.8	41.9	43.2	14.7	19.7	44.5	25.1	10.0				328.9
Initial Spares												
Total Proc Cost	129.8	41.9	43.2	14.7	19.7	44.5	25.1	10.0				328.9
Flyaway U/C												
Wpn Sys Proc U/C												

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

Justification:

FY03 procures 199 AH-64A/D A-Kits and 63 Air Traffic Systems. Supports Required Operation Capability (ROC) for NOE Communications dated 7 May 1980 and updated in approved Operational Requirement Document for the NOE Communications system dated 26 February 1994. The AN/ARC-220/VRC-100 answers Non-Line-of-Sight communication deficiency for the AH-64A/D aircraft as identified by Task Force Hawk. The AN/ARC-220 supports digitization of the battlefield and enhances Joint Services communications. The AN/ARC-220/VRC-100 communications system supports the five (5) Army modernization objectives; protect and sustain the force, protect the force, win the battlefield information war, conduct precision strikes throughout the battlefield and dominate the maneuver battle.

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/F Aircraft Procu Support equip	rement, Army	/4/			tem Nomenclature E COMMUNICATIO			Weapon System	Гуре:	Date: Februa	ary 2002
ACFT	ID		FY 00			FY 01			FY 02			FY 03	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
RECURRING COSTS A. AN/ARC-220 NOE HF Airborne Radio B. AN/VRC-100 Ground Radio					4343	185	24	5399	230	24	423	10	43
C. A-Kits D. A-Kit Installation					1574 6657	135 396	12 17	6694 63	165 123	41 1	33483 4504		128 18
SUBTOTAL					12574			12156			38410		
NON-RECURRING COSTS A. A-Kit Intergration B. Other System Test								4356					
SUBTOTAL								4356					
SUPPORT COST A. Fielding Support B. Program Management					1368 800			2162 983			3839 2224		
SUBTOTAL					2168			3145			6063		
Total					14742			19657			44473		

Contractor and Location	Weapon Syster Contract Method and Type	n Type: Location of PCO		P-1 Line Ite					
Contractor and Location		Location of PCO			JANIA O MEATIC	ONS (AA0/05)			
	71	Location of FCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
ckwell International dar Rapids, IA	FFP	CECOM	Mar 01	Mar 02	185	24	Yes		
	FFP	CECOM	Jan 02	Jul 02	230	24	Yes		
ckwell International dar Rapids, IA	FFP	CECOM	Jan 03	Jul 02	10	43	Yes		
d	kwell International lar Rapids, IA kwell International	kwell International FFP lar Rapids, IA FFP	kwell International FFP CECOM lar Rapids, IA FFP CECOM	kwell International FFP CECOM Jan 02 lar Rapids, IA kwell International FFP CECOM Jan 03	kwell International FFP CECOM Jan 02 Jul 02 lar Rapids, IA kwell International FFP CECOM Jan 03 Jul 02	kwell International FFP CECOM Jan 02 Jul 02 230 lar Rapids, IA kwell International FFP CECOM Jan 03 Jul 02 10	kwell International FFP CECOM Jan 02 Jul 02 230 24 lar Rapids, IA kwell International FFP CECOM Jan 03 Jul 02 10 43	kwell International FFP CECOM Jan 02 Jul 02 230 24 Yes lar Rapids, IA kwell International FFP CECOM Jan 03 Jul 02 10 43 Yes	kwell International FFP CECOM Jan 02 Jul 02 230 24 Yes lar Rapids, IA kwell International FFP CECOM Jan 03 Jul 02 10 43 Yes

FY	FY 02 / 03 BUDGET PRODUCTION SCHEDULE										clatur MMU		ATIO	NS (A	AA07	05)								Date:			Feb	ruary :	2002			
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A. AN/ARC-220 NOI	E HF Airborne Radio								Н	+			\dashv															\vdash				
		1	FY 01	A	185	0	185						50	50	50	35																0
		1	FY 02	A	230	0	230				Α						50	50	50	50	30)										0
		1	FY 03	A	10	0	10		Ш	_			_										A						10			0
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