

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
FY 2009 Global War On Terror Supplemental Request

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

February 2009

Table of Contents - Aircraft Procurement, Army

BLIN	SSN	Nomenclature	Page
006	AA0005	UH-60 BLACKHAWK (MYP)	1
008	A05008	CH-47 NEW BUILD	7
012	AZ2000	GUARDRAIL MODS (MIP)	11
014	AA6605	AH-64 APACHE MODS	17
016	AA0252	CH-47 CARGO HELICOPTER MODS (MYP)	23
026	AZ3507	ASE INFRARED CM	27
030	AZ3110	AIRCREW INTEGRATED SYSTEMS	31
034	AA0705	AIRBORNE COMMUNICATIONS	36

TABLE OF CONTENTS

			PAGE
SUMMARY BY ACTIVITY:			2
Aircraft Procurement, Army			
ACTIVITY:	01	Aircraft	3
ACTIVITY:	02	Modification of aircraft	4
ACTIVITY:	04	Support equipment and facilities	5
NOMENCLATURE INDEX			6
SSN INDEX			7

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

APPROPRIATION Aircraft Procurement, Army

		FY 2009 Dollars in Thousands		
<u>ACTIVITY</u>		<u>Total GWOT Requirement</u>	<u>Enacted Bridge</u>	<u>FY 2009 Remaining GWOT Request</u>
01	Aircraft	201,400	0	201,400
02	Modification of aircraft	403,820	0	403,820
04	Support equipment and facilities	177,384	20,000	157,384
APPROPRIATION TOTALS		782,604	20,000	762,604

*** UNCLASSIFIED ***

EXHIBIT P-1
 Page 2 of 7

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

APPROPRIATION Aircraft Procurement, Army

ACTIVITY 01 Aircraft

FY 2009 Dollars in Thousands

<u>LINE NO</u>	<u>ITEM NOMENCLATURE</u>	<u>ID</u>	<u>Total GWOT Requirement</u>		<u>Enacted Bridge</u>		<u>FY 2009 Remaining GWOT Request</u>	
			<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
	<i>ROTARY</i>							
6	UH-60 BLACKHAWK (MYP) (AA0005)		5	81,400			5	81,400
8	CH-47 HELICOPTER (A05008)		4	120,000			4	120,000
	<i>SUB-ACTIVITY TOTAL</i>			201,400		0		201,400
	ACTIVITY TOTAL			201,400		0		201,400

*** UNCLASSIFIED ***

EXHIBIT P-1

*** UNCLASSIFIED ***
 DEPARTMENT OF THE ARMY
 FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

APPROPRIATION Aircraft Procurement, Army

ACTIVITY 02 Modification of Aircraft

FY 2009 Dollars in Thousands

<u>LINE NO</u>	<u>ITEM NOMENCLATURE</u>	<u>ID</u>	<u>Total GWOT Requirement</u>		<u>Enacted Bridge</u>		<u>FY 2009 Remaining GWOT Request</u>	
			<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>	<u>QTY</u>	<u>COST</u>
<i>MODIFICATIONS OF AIRCRAFT</i>								
12	GUARDRAIL MODS (TIARA) (AZ2000)			39,700				39,700
14	AH-64 MODS (AA6605)			354,360				354,360
16	CH-47 CARGO HELICOPTER MODS (AA0252)			9,760				9,760
	<i>SUB-ACTIVITY TOTAL</i>			403,820		0		403,820
	ACTIVITY TOTAL			403,820		0		403,820

*** UNCLASSIFIED ***

EXHIBIT P-1
 Page 4 of 7

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

APPROPRIATION Aircraft Procurement, Army

ACTIVITY 04 Support Equipment and Facilities

FY 2009 Dollars in Thousands

LINE NO	ITEM NOMENCLATURE	ID	Total GWOT Requirement		Enacted Bridge		FY 2009 Remaining GWOT Request	
			QTY	COST	QTY	COST	QTY	COST
	<i>GROUND SUPPORT AVIONICS</i>							
26	ASE INFRARED CM (AZ3507)			152,800		20,000		132,800
	<i>SUB-ACTIVITY TOTAL</i>			<u>152,800</u>		<u>20,000</u>		<u>132,800</u>
	<i>OTHER SUPPORT</i>							
30	AIRCREW INTEGRATED SYSTEMS (AZ3110)			3,584				3,584
34	AIRBORNE COMMUNICATIONS (AA0705)			21,000				21,000
	<i>SUB-ACTIVITY TOTAL</i>			<u>24,584</u>		<u>0</u>		<u>24,584</u>
	ACTIVITY TOTAL			<u>177,384</u>		<u>20,000</u>		<u>157,384</u>
	APPROPRIATION TOTAL			<u>782,604</u>		<u>20,000</u>		<u>762,604</u>

*** UNCLASSIFIED ***

EXHIBIT P-1

Page 5 of 7

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
AA6605	12	4	AH-64 MODS (AA6605)
AA0705	32	5	AIRBORNE COMMUNICATIONS (AA0705)
AZ3110	28	5	AIRCREW INTEGRATED SYSTEMS (AZ3110)
AZ3507	24	5	ASE INFRARED CM (AZ3507)
AA0252	14	4	CH-47 CARGO HELICOPTER MODS (AA0252)
A05008	8	3	CH-47 HELICOPTER (A05008)
AZ2000	10	4	GUARDRAIL MODS (TIARA) (AZ2000)
AA0005	6	3	UH-60 BLACKHAWK (MYP) (AA0005)

*** UNCLASSIFIED ***

EXHIBIT P-1

Page 6 of 7

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2009 GWOT Supplemental Request

EXHIBIT P-1

DATE: 24-Feb-2009

SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
A05008	8	3	CH-47 HELICOPTER (A05008)
AA0005	6	3	UH-60 BLACKHAWK (MYP) (AA0005)
AA0252	14	4	CH-47 CARGO HELICOPTER MODS (AA0252)
AA0705	32	5	AIRBORNE COMMUNICATIONS (AA0705)
AA6605	12	4	AH-64 MODS (AA6605)
AZ2000	10	4	GUARDRAIL MODS (TIARA) (AZ2000)
AZ3110	28	5	AIRCREW INTEGRATED SYSTEMS (AZ3110)
AZ3507	24	5	ASE INFRARED CM (AZ3507)

*** UNCLASSIFIED ***

EXHIBIT P-1
Page 7 of 7

Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:
0203744A/Project 504

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				5						5
Gross Cost				81.4						81.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				81.4						81.4
Initial Spares										
Total Proc Cost				81.4						81.4
Flyaway U/C										
Weapon System Proc U/C				16.3						16.3

Description:

UH-60 BLACK HAWK and associated equipment.

Justification:

FY 2009 Global War on Terrorism (GWOT) funds 3 additional UH-60M and 2 HH-60M (MEDEVAC) aircraft.

	OIF	OEF	Total
FY 2009 GWOT Request:	\$48.840 Million	\$32.560 Million	\$81.400 Million

Exhibit P-40, Budget Item Justification Sheet							Date: February 2009											
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft					P-1 Item Nomenclature UH-60 BLACK HAWK (MYP) (A05002)													
Program Elements for Code B Items:			Code:		Other Related Program Elements: 0203744A/Project 504													
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog								
Proc Qty				5						5								
Gross Cost				81.4						81.4								
Less PY Adv Proc																		
Plus CY Adv Proc																		
Net Proc P1				81.4						81.4								
Initial Spares																		
Total Proc Cost				81.4						81.4								
Flyaway U/C																		
Weapon System Proc U/C				16.3						16.3								
<p>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.</p> <p>Justification: FY 2009 Global War on Terrorism (GWOT) funds 3 additional UH-60M and 2 HH-60M (MEDEVAC) aircraft.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">OIF</td> <td style="text-align: center;">OEF</td> <td style="text-align: center;">Total</td> </tr> <tr> <td>FY 2009 GWOT Request:</td> <td style="text-align: center;">\$48.840 Million</td> <td style="text-align: center;">\$32.560 Million</td> <td style="text-align: center;">\$81.400 Million</td> </tr> </table>												OIF	OEF	Total	FY 2009 GWOT Request:	\$48.840 Million	\$32.560 Million	\$81.400 Million
	OIF	OEF	Total															
FY 2009 GWOT Request:	\$48.840 Million	\$32.560 Million	\$81.400 Million															

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft			P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)			Weapon System Type:		Date: February 2009	
ACFT Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Aircraft Flyaway Costs											
Airframes/CFE											
Engines/Accessories											
Avionics (GFE)											
Other GFE											
Armament											
ECO (All FLYAWAY Components)											
Other Costs (Mission Equipment)											
Tooling Equipment											
Other Nonrecurring Cost											
Total FLYAWAY											
Support Cost											
Peculiar Training Equipment											
Publications/Tech Data											
PM Administration											
Fielding											
Subtotal Support Cost											
Airframes/GFE											
Engines/Accessories											
Avionics (GFE)											
Other GFE											
Other Cost (Mission Equipment)											
ECO/Fielding											
GWOT											
Gross P-1 End Item Cost											
Less: Prior Year Adv Proc											
Net P-1 Full Funding Cost											
Plus: P-1 CY Adv Proc											
Initial Spares											
Total:											
									55914	5	11183
									6707	10	671
									5285		
									3720		
									7419		
									2355		
									81400		
									81400		
									81400		
									81400		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft			Weapon System Type:		P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Airframes/CFE FY 2009	Sikorsky Aircraft Stratford CT	SSM/FP	AMCOM	Jan 09	Jul 10	5	11183	Yes		May-05	

REMARKS:

FY 09 / 10 BUDGET PRODUCTION SCHEDULE														P-1 ITEM NOMENCLATURE UH-60 BLACK HAWK (MYP) (A05002)										Date: February 2009	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------	--

COST ELEMENTS						Fiscal Year 09												Fiscal Year 10												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09												Calendar Year 10												
						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	

Airframes/CFE																																									
1	FY 09	A	5	0	5																																	1	1	1	2
Total																																									
					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	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	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Sikorsky Aircraft, Stratford CT	18	96	120	22	1	Initial	8	3	6	9	
							Reorder	0	3	6	9	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

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

Date: February 2009

COST ELEMENTS						Fiscal Year 11														Fiscal Year 12														Later
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11														Calendar Year 12														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
Airframes/CFE																																		
1	FY 09	A	5	3	2	1	1																					0						
Total						5	3	2	1	1																								
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Sikorsky Aircraft, Stratford CT	18	96	120	22	1	Initial	8	3	6	9	
							Reorder	0	3	6	9	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet	Date: February 2009
--	---------------------

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

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

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				4					2	6
Gross Cost				120.0						120.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				120.0						120.0
Initial Spares										
Total Proc Cost				120.0						120.0
Flyaway U/C										
Weapon System Proc U/C				30.0						30.0

Description:
The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. The mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the Global War On Terrorism and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital Advance Flight Control System (AFCS) and an Extended Range Fuel System II for self-deployment missions. The CH-47F is expected to remain the Army heavy lift helicopter until at least the 2025 timeframe. This program is funded to meet the Army Aviation transformation Plans full requirement for Chinook aircraft.

Justification:
FY09 Global War on Terrorism (GWOT) request in the amount of \$120 million will procure four replacement aircraft due to combat loss. Replacement aircraft are required to fill the Army's Chinook requirement for its operational force.

	OIF	OEF	Total
FY 2009 GWOT Request:	\$60.000 Million	\$60.000 Million	\$120.000 Million

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft			P-1 Line Item Nomenclature: CH-47 NEW BUILD (A05008)			Weapon System Type:		Date: February 2009	
ACFT Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FY09 Main Supplemental											
AIRCRAFT Flyaway Costs											
Airframes/CFE									98433	4	24608
Engine/Accessories									7879	8	985
CFE Avionics									4634		
GFE									5088		
ECO (All Flyaway Components)									1991		
Other Costs									67		
Support Costs											
PSE									93		
Peculiar Training Equipment									47		
Publications / Tech Data									54		
ECO (Support Items)									21		
Other Costs									1693		
Subtotal Support Costs									12000		
Total FY09 Main Supplemental									12000		
Total:									12000		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft			Weapon System Type:		P-1 Line Item Nomenclature: CH-47 NEW BUILD (A05008)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Airframes/CFE Airframes/CFE FY 2009	The Boeing Company Ridley Park, PA	SS/FFP	AMCOM	Mar 09	Mar 12	4	24608				

REMARKS:

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
CH-47 NEW BUILD (A05008)

Date:
February 2009

M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11													Fiscal Year 12											Later
						Calendar Year 11													Calendar Year 12											
						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	

Airframes/CFE

Airframes/CFE

1	FY 09		4	0	4																								1	1	2										0	
Total			4		4																								1	1	2											

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Exhibit P-40, Budget Item Justification Sheet								Date: February 2009																								
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft					P-1 Item Nomenclature GUARDRAIL MODS (MIP) (AZ2000)																											
Program Elements for Code B Items:			Code:		Other Related Program Elements:																											
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog																						
Proc Qty																																
Gross Cost				39.7						39.7																						
Less PY Adv Proc																																
Plus CY Adv Proc																																
Net Proc P1				39.7						39.7																						
Initial Spares																																
Total Proc Cost				39.7						39.7																						
Flyaway U/C																																
Weapon System Proc U/C																																
Description:																																
<p>GUARDRAIL is an Airborne signal intercept and emitter location system designed to provide tactical commanders with critical battlefield information via a Joint Tactical Terminal (JTT) and other DoD tactical and fixed communications systems (e.g., Guardrail Reporting Shelter--GRS). It currently provides intelligence data via Commanders Tactical Terminal (CTT) to other INTEL users, such as Common Ground System(CGS) and All Source Analysis System (ASAS) via the Tactical Information Broadcast Service (TIBS) and Tactical Reconnaissance Intelligence Exchange System (TRIXS), etc networks. The Army's GUARDRAIL/Common Sensor (GR/CS) System provides a highly flexible architecture to allow rapid deployment to support contingency operations, and was designed to support field commanders until a future system is fielded.</p> <p>The GRCS integrates Communications Intelligence (COMINT), the Communications High Accuracy Airborne Location System (CHAALS/CHALS-X) for COMINT precision emitter locations, the Advanced QUICKLOOK (AQL) for electronics intelligence (ELINT) precision emitter location, and the Guardian Eagle technical insertion payload into a single signal intelligence (SIGINT) system. The airborne elements are integrated into the RC-12H/K/N/P/Q aircraft. Ground processing is conducted in the Surveillance Information Processing Center. Key performance requirements include a real-time COMINT and ELINT collection and high accuracy target location capability in communications and radar frequencies. The Tactical Common Data Link (TCDL) connects the airborne elements and the ground processing element. A satellite remote relay supports rapid deployment, minimum footprint forward, and remote signal processing capability. GR/CS Guardian Eagle (GE) payloads on System 1, 2, 3, and 4 were provided updated hardware and software to enhance the GR/CS ability to process non-traditional signals, providing intercept of military communication emitters, and modern commercially available hand-held communication devices. The Guardian Eagle is software upgradeable and has an open architecture that harnesses National and Services' DCP investment for future GR/CS upgrades. This capability supports the Global War on Terrorism (GWOT). GRCS contributes directly to the success of Army Modernization by serving as an operational platform for verification of new or improved technologies.</p>																																
Justification:																																
<p>FY2009 GWOT funding provides extended tether data link capability to one additional GRCS system. Extended tether capability enables dedicated Intelligence Surveillance Reconnaissance (ISR) support throughout a greater range of coverage. Funding supports hardware/software procurement and integration for eight (8) sets of air-to-air/air-to-ground processing and dissemination architecture components in order to optimize Army investments in enhanced signals processing and precision geo-location equipment. Funding will also accelerate procurement of eight (8) High Band COMINT (HBC) B-Kits and one (1) Special Signals (SS) B-Kit, which provide capability to collect and exploit modern GWOT threat signals.</p>																																
<table style="width:100%; border:none;"> <tr> <td style="text-align:right;">OIF</td> <td style="text-align:right;">OEF</td> <td style="text-align:right;">Total</td> <td colspan="8"></td> </tr> <tr> <td style="text-align:right;">FY 2009 GWOT Request: \$23.820 Million</td> <td style="text-align:right;">\$15.880 Million</td> <td style="text-align:right;">\$39.700 Million</td> <td colspan="8"></td> </tr> </table>											OIF	OEF	Total									FY 2009 GWOT Request: \$23.820 Million	\$15.880 Million	\$39.700 Million								
OIF	OEF	Total																														
FY 2009 GWOT Request: \$23.820 Million	\$15.880 Million	\$39.700 Million																														

Exhibit P-40M, Budget Item Justification Sheet											Date: February 2009	
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft						P-1 Item Nomenclature GUARDRAIL MODS (MIP) (AZ2000)						
Program Elements for Code B Items:							Code:		Other Related Program Elements:			
Description			Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total	
Comm High Accuracy Location Sys-Compact (CHALS-												
1-06-111-2006		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Special Signals Subsystem												
1-07-333-2009		0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	
Enhanced Situational Awareness (ESA) 1,2,3,4												
1-06-333-2006		0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	18.0	
Guardrail Ground Base Subsystem												
1-07-111-2007		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
High Band COMINT (HBC) Subsystem												
1-07-222-2007		0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	20.3	
Electronics Intelligence (ELINT)												
1-07-444-2007		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Totals		0.0	0.0	0.0	39.7	0.0	0.0	0.0	0.0	0.0	39.7	

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: Enhanced Situational Awareness (ESA) 1,2,3,4 [MOD 3] 1-06-333-2006

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

DESCRIPTION / JUSTIFICATION:

The ESA Upgrade provides a Modern Airborne COMINT Subsystem and infrastructure on the GRCS aircraft, provides a capability against modern commercial targets and allows GRCS to remain relevant until ACS is fielded. The ESA upgrade replaces the current 1980's vintage Direction Finding (DF) and signal classification subsystems with a Net-Centric Sustainable Architecture capable of mapping the modern signal environment and provides the software on the ground to enable sensor control and signal exploitation tools. Without these critical upgrades, the system will lose its ability to remain relevant against evolving threat signal environment. ESA also includes the integration, test and fielding for the CHALS-C subsystem, High Band COMINT (HBC), Special Signals (SS), integration of current X-Midas, data link equipment, and for the Re-Capitalization of (9) RC-12N Model Aircrafts. As part of platform standardization efforts, ESA will provide data link and cockpit upgrades for the first seven aircraft. ESA provides greatly improved COMINT infrastructure and Core COMINT capability allowing more open architecture and increased capabilities against emerging OEF/OIF threats.

FY2009 GWOT funding supports hardware/software procurement and integration for eight (8) sets of air-to-air/air-to-ground processing and dissemination architecture components to optimize Army investments in enhanced signals processing and precision geo-location equipment(A-Kit Recurring Engineering cost)(\$18.0M)

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

4QFY09 Award ESA Contract
4QFY12 Fld 3rd ESA Upgrade

Note: GWOT funds 8 Data Links to align with Aircraft availability schedule.

Installation Schedule

Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																					8
Outputs																					
Pr Yr Totals	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					8
Outputs				8																	8

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months
 Contract Dates: FY 2008 - FY 2009 - FY 2010 -
 Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): Enhanced Situational Awareness (ESA) 1,2,3,4 [MOD 3] 1-06-333-2006

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
NRE																				
Recur ESA B-Kit																				
Recur A Kit (Racks/Cables)																				
Recur A-Kit (Airframe)																				
Recur (Nav/Timing)																				
Recur Data Link Air																				
GWOT Data Link/I&T/Spare							9	18.0											9	18.0
Training Support																				
Fielding (CHALS/ESA/HBC)																				
PM Spt																				
ESA Installations																				
FY 2011 Installations																				
FY 2012 Installation																				
FY 2013 Installation																				
FY 2014 Installation																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		18.0		0.0		0.0		0.0		0.0		0.0		18.0

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: High Band COMINT (HBC) Subsystem [MOD 5] 1-07-222-2007

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

DESCRIPTION / JUSTIFICATION:

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

FY 2009 GWOT Funding supports accelerated procurement and fielding of eight sets of High Band COMINT B-Kits, providing increased signal collection capability against modern GWOT threat signals. PM Support, Fielding and installation costs are captured as part of ESA integration (\$20.3 million).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

4QFY09 Contract Award
4QFY12 Fld 3rd Sys

NOTE: Systems installation will occur as units become available between deployments. GWOT support 8 B-Kits to align with ESA fielding schedule.

Installation Schedule

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

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

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME:

12 months

Contract Dates:

FY 2008 -

FY 2009 -

FY 2010 -

Delivery Dates:

FY 2008 -

FY 2009 -

FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): High Band COMINT (HBC) Subsystem [MOD 5] 1-07-222-2007

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Nonrecurring																					
Recurring HBC B-Kits																					
Initial Spares																					
GWOT HBC B-Kits							8	11.4											8	11.4	
GWOT Aircraft I&T								7.2												7.2	
GWOT Spares							1	1.4											1	1.4	
GWOT PM Spt								0.3												0.3	
Installation of Hardware																					
FY 2006 & Prior Equip -- Kits																					
FY 2007 -- Kits																					
FY 2008 Equip -- Kits																					
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
FY 2012 Equip -- Kits																					
FY 2013 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Total Procurement Cost		0.0		0.0		0.0		20.3		0.0		0.0		0.0		0.0		0.0			20.3

Exhibit P-40, Budget Item Justification Sheet	Date: February 2009
--	---------------------

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

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

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				354.4						354.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				354.4						354.4
Initial Spares										
Total Proc Cost				354.4						354.4
Flyaway U/C										
Weapon System Proc U/C										

Description:
 AH-64 MODS provides for an Apache Attack Helicopter fleet consisting of 96 AH-64A model and 634 (AAO) AH-64D model Apache attack helicopters, all equipped with a single main rotor, twin engines, and a tandem cockpit. In addition, 13 Longbow War Replacement Aircraft (WRA)(replenishments for combat attrition) were added to the Longbow budget line in the FY 05 supplemental appropriation, 14 aircraft were added to this budget line in FY 06, 20 aircraft in FY07, and 5 in FY08. And, FY09 GWOT funding procures an additional 12 WRA.
 Base Apache aircraft components: the Target Acquisition Designation Sight (TADS) is housed in a turret on the nose of the AH-64 and consists of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/ Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Apache aircraft is armed with the Hellfire Antitank Missile, 2.75 inch rockets, and a 30mm gun capable of defeating armor by day or night and in adverse weather. The more advanced Longbow Apache aircraft (AH-64D) incorporates the Longbow weapon system and provides the U.S. Army with a significant improvement in target acquisition and firepower effectiveness, increasing the survivability, lethality, and adverse weather fighting capabilities of the Apache. The AH-64D model is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, a fire and forget Longbow HELLFIRE missile, and Modernized TADS/PNVS.

Justification:
 FY09 Global War On Terrorism (GWOT) funds procurement of 12 War Replacement Aircraft (WRA) and Conditioned Based Maintenance (CBM) systems.

	OIF	OEF	Total	
FY 2009 GWOT Request:	\$211.2 Million	\$143.2 Million	\$354.4 Million	

Exhibit P-40M, Budget Item Justification Sheet										Date: February 2009	
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft					P-1 Item Nomenclature AH-64 APACHE MODS (AA6605)						
Program Elements for Code B Items:						Code:		Other Related Program Elements: AA6670, AA0951, PE23744 D12 & D17			
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Video Unmanned Acft Intel Teaming (VUIT-2)(GWOT)											
OSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Modernized TADS/PNVS (M-TADS)											
1-01-01-0022		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AH-64D Longbow War Replacement Acft (WRA) - GWOT											
OSIP		0.0	0.0	0.0	343.6	0.0	0.0	0.0	0.0	0.0	343.6
AH-64 R and S and Recap											
OSIP		0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0	10.8
Totals		0.0	0.0	0.0	354.4	0.0	0.0	0.0	0.0	0.0	354.4

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: AH-64D Longbow War Replacement Acft (WRA) - GWOT [MOD 3] OSIP

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:
 FY09 GWOT funding procures twelve (12) Longbow WRA (with Modernized TADS/PNVs, and Aircraft Survivability Equipment, to include common missile warning system) to replace those helicopters attrited during Operation Iraqi Freedom and Operation Enduring Freedom (OIF/OEF). These replacement aircraft will be the same configuration as those produced under the remanufacturing contract, but will be fitted with a new fuselage and materials rather than being remanufactured. (A total of 64 WRA will have been procured, FY05 thru FY09.)

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 Proposed contract award Dec 2009

Installation Schedule

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

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		12
Outputs			3		3	3	3											12

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 36 months
 Contract Dates: FY 2008 - FY 2009 - Dec 09 FY 2010 -
 Delivery Dates: FY 2008 - FY 2009 - Dec 12 FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): AH-64D Longbow War Replacement Acft (WRA) - GWOT [MOD 3] OSIP

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement							12	343.6											12	343.6
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		343.6		0.0		0.0		0.0		0.0		0.0		343.6

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: AH-64 R and S and Recap [MOD 4] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION / JUSTIFICATION:

Apache Mods and Recap provides near term improvements to the Apache fleet, focusing on reliability and safety upgrades and operational deficiencies. Beginning FY 2006, Condition Based Maintenance (CBM) was programmed to begin for fleet retrofit of the AH-64D to incorporate a Modernized Signal Processing Unit (MSPU). CBM capability improves operational reliability and safety and permits the employment of on-condition maintenance thereby reducing sustainment costs. This funding enables Apache aircraft to be deployed to OIF/OEF with CBM capability. CBM will improve fleet readiness and decrease the maintenance burden for the units. Installation, initial spares and data migration (Services) costs are included within the cost of the CBM (MSPU) system. [Installations accomplished on-site.]

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jul 09 -- CBM contract option (GWOT)

Installation Schedule

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

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

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2008 - FY 2009 - Jul 09 FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - Nov 09 FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): AH-64 R and S and Recap [MOD 4] OSIP

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
Procurement																					
CBM Hardware																					
CBM Kits - FY09 GWOT							132	10.8											132	10.8	
Other Recap																					
Installation Kits, Nonrecurring																					
R and S Equipment (Kits)																					
CBM Services																					
Non-recurring Engineering																					
In-house Support																					
Installation of Hardware																					
FY 2006 and Prior Equip --																					
R&S Kits																					
FY 2007 -- RandS Kits																					
FY 2008 Equip -- RandS Kits																					
FY 2009 Equip -- RandS Kits																					
FY 2010 Equip -- Kits																					
FY 2007 Equip -- CBM Kits																					
FY 2008 Equip -- CBM Kits																					
FY 2009 Equip -- CBM Kits																					
FY 2010 Equip -- CBM Kits																					
FY 2010 Equip -- CBM Kits																					
FY 2012 Equip -- CBM Kits																					
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Total Procurement Cost		0.0		0.0		0.0		10.8		0.0		0.0		0.0		0.0		0.0			10.8

Exhibit P-40, Budget Item Justification Sheet								Date: February 2009																										
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft					P-1 Item Nomenclature CH-47 CARGO HELICOPTER MODS (MYP) (AA0252)																													
Program Elements for Code B Items:			Code:		Other Related Program Elements: RDTE PE 0203744A																													
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog																								
Proc Qty																																		
Gross Cost				9.8						9.8																								
Less PY Adv Proc																																		
Plus CY Adv Proc																																		
Net Proc P1				9.8						9.8																								
Initial Spares																																		
Total Proc Cost				9.8						9.8																								
Flyaway U/C																																		
Weapon System Proc U/C																																		
Description: The Cargo Floor Handling System will replace the current system which is cumbersome and not flexible enough to meet mission diversity currently faced in OEF and OIF. The system would be integrated into the aircraft. This would allow for units to perform cargo missions and pax missions without stopping to reconfigured the helicopter.																																		
Justification: FY09 Global War on Terrorism (GWOT) request in the amount of \$9.8 million will procure 61 Cargo Floor Handling Systems for Chinook Helicopters currently in the OIF and OEF theaters. This cargo handling system provides a low-friction, load/unload conveyor ramp and includes conveyors for moving cargo within the aircraft. Almost all missions in theater involve moving cargo. This high volume of cargo moved has caused the current sets to be beyond repair.																																		
<table style="width:100%; border: none;"> <tr> <td></td> <td>OIF</td> <td>OEF</td> <td>Total</td> <td colspan="8"></td> </tr> <tr> <td>FY 2009 GWOT Request:</td> <td>\$5.856 Million</td> <td>\$3.904 Million</td> <td>\$9.760 Million</td> <td colspan="8"></td> </tr> </table>												OIF	OEF	Total									FY 2009 GWOT Request:	\$5.856 Million	\$3.904 Million	\$9.760 Million								
	OIF	OEF	Total																															
FY 2009 GWOT Request:	\$5.856 Million	\$3.904 Million	\$9.760 Million																															

Exhibit P-40M, Budget Item Justification Sheet	Date: February 2009
---	------------------------

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

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

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Cargo Floor Handling System (GWOT)											
0-00-00-0000	Operational	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	9.8
Totals		0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	9.8

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: Cargo Floor Handling System (GWOT) [MOD 1] 0-00-00-0000

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

DESCRIPTION / JUSTIFICATION:

The Cargo Floor Handling System will replace the current system which is cumbersome and not flexible enough to meet mission diversity currently faced in OEF and OIF. The system would be integrated into the aircraft. This would allow for units to perform cargo missions and pax missions without stopping to reconfigure the helicopter. The current system is a bolt on system that is maintenance intensive to install and remove. The cargo handling floor would allow a cargo handling system to be installed on the aircraft all the time allowing for in-flight changes as needed and reducing mission prep time while eliminating man-hours needed to install.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

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

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

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2008 - FY 2009 FY 2009 - FY 2010 -
 Delivery Dates: FY 2008 - FY 2009 FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): Cargo Floor Handling System (GWOT) [MOD 1] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
Procurement																					
Kit Quantity							61	9.8											61	9.8	
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 2006 & Prior Equip -- Kits																					
FY 2007 -- Kits																					
FY 2008 Equip -- Kits																					
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
FY 2012 Equip -- Kits																					
FY 2013 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total Procurement Cost		0.0		0.0		0.0		9.8		0.0		0.0		0.0		0.0		0.0		0.0	9.8

Exhibit P-40, Budget Item Justification Sheet							Date: February 2009			
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities					P-1 Item Nomenclature ASE INFRARED CM (AZ3507)					
Program Elements for Code B Items:			Code:		Other Related Program Elements:					
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				132.8						132.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				132.8						132.8
Initial Spares										
Total Proc Cost				132.8						132.8
Flyaway U/C										
Weapon System Proc U/C										
Description:										
<p>The Advanced Threat Infrared Countermeasure (ATIRCM) is a US Army program to develop, test, and integrate defensive infrared (IR) countermeasures capabilities into existing, current generation host platforms for more effective protection against a greater number of IR guided missile threats than afforded by currently fielded IR countermeasures. The US Army operational requirements concept for IR countermeasure systems is known as the Suite of Integrated Infrared Countermeasures (SIIRCM). It is an integrated warning and countermeasure system to enhance aircraft survivability against IR guided threat missile systems. The core element of the SIIRCM concept is the ATIRCM, Common Missile Warning System (CMWS) Program. The ATIRCM/CMWS, a subsystem to a host aircraft, is an integrated ultraviolet (UV) missile warning system and an IR Lamp/Laser Jamming and Improved Countermeasure Dispenser (ICMD).</p> <p>The CMWS also functions as a stand-alone system with the capability to detect missiles and provide audible and visual warnings to the pilot(s); and, when installed with the ICMD, activates expendables to provide a degree of protection. ATIRCM/CMWS is the key IR survivability system for current and future Army aircraft.</p> <p>The A-Kit is the modification hardware, wiring harness, cable, etc., necessary to install and interface the ATIRCM/CMWS Mission Kit to each platform. The A-Kit ensures the Mission Kit is functionally and physically operational with the host platform.</p> <p>The Mission Kit consists of the ATIRCM/CMWS which performs the missile detection, false alarm rejection, and missile declaration functions of the system. The Electronic Control Unit (ECU) of the CMWS sends a missile alert signal to on-board avionics and other Aircraft Survivability Equipment (ASE) such as expendable flare dispensers. Threat missiles detected by the CMWS are handed over to the ATIRCM.</p>										
Justification:										
FY 2009 Global War on Terrorism (GWOT) funds 72 CMWS Recurring Hardware, and continues the Aircraft Survivability Product Improvement (ASPI) program which provides IR suppression systems to lower the heat signature of helicopters through passive means.										
	OIF	OEF	Total							
FY 2009 GWOT Requirement:	\$91.680 Million	\$61.120 Million	\$152.800 Million							
FY 2009 Bridge Enacted:	\$12.000 Million	\$8.000 Million	\$20.000 Million							
FY 2009 Remaining GWOT Request:	\$79.680 Million	\$53.120 Million	\$132.800 Million							

Exhibit P-5, Weapon ACFT Cost Analysis	Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities	P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507)	Weapon System Type:	Date: February 2009
---	---	---	---------------------	------------------------

ACFT Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
CMWS Recurring Hardware Supplemental								21600	72	300
IR Suppressor Kits								111200		
Total:								132800		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities		Weapon System Type:	P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CMWS Recurring Hardware Supplemental FY 2009	BAE Systems (CMWS) Nashua, NH	SS/FFP	CECOM, Ft. Monmouth	Dec 08	Aug 09	72	300			

REMARKS:

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE INFRARED CM (AZ3507)

Date: February 2009

COST ELEMENTS						Fiscal Year 09														Fiscal Year 10														Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09														Calendar Year 10														
						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					
CMWS Recurring Hardware Supplemental																																		
	2	FY 09	A	72	0	72			A								6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
Total						72	72										6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	Various, Various	18	200	800		1	Initial	0	
							Reorder	0	3	3	6
2	BAE Systems (CMWS), Nashua, NH	48	200	480		2	Initial	0	3	5	8
3	BAE Systems (ATIRCM), Nashua, NH	12	48	240			Reorder	0	3	5	8
						3	Initial	0	4	10	14
							Reorder	0	1	12	13
							Initial				
							Reorder				
							Initial				
							Reorder				

Exhibit P-40, Budget Item Justification Sheet								Date: February 2009		
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities					P-1 Item Nomenclature AIRCREW INTEGRATED SYSTEMS (AZ3110)					
Program Elements for Code B Items:			Code:		Other Related Program Elements: RDTE 0603801 (DB45), 0604801 (DC45), 0603827, 0604601					
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				3.6						3.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				3.6						3.6
Initial Spares										
Total Proc Cost				3.6						3.6
Flyaway U/C										
Weapon System Proc U/C										
Description: Air Warrior effectively integrates the Soldier with all Army rotary wing aircraft. Air Warrior provides improved aircrew safety, survivability and human performance. It includes the protective equipment used by the Soldier during flight and post-crash survival, evasion, resistance and escape. Block 1 systems include the HGU-56/P integrated helmet system, the Air Warrior integrated survival equipment system (ensemble), improved ballistic protection and microclimate cooling. The HGU-56/P helmet system includes laser eye protection and sound attenuation devices. The Block 1 system offers weight and bulk reduction over previously fielded equipment, and includes extraction capability for a downed aviator, standardized placement for communication, survivability, and first aid equipment, microclimate cooling, ballistic protection and over-water survival gear. Air Warrior also includes airframe integration (A Kit) efforts and microclimate cooling (B Kit) hardware on the UH/HH-60A/L Blackhawk and CH-47D Chinook helicopters. Air Warrior Block 1 enables the Army Aviation Warfighter to meet the approved Operational Requirements Document Key Performance Parameter mission length of 5.3 hours while wearing full chemical/biological protective gear. The Air Warrior acquisition strategy adds new capabilities and spiral improvements to current products incrementally. Block 2 introduces the Electronic Data Manager (EDM), a lightweight and portable touch screen computer that provides off-aircraft mission planning, moving map, and interfaces with Blue Force Tracking two-way situational awareness capabilities in the form of a digital kneeboard. Block 2 also adds the Aircraft Wireless Intercom System (AWIS) for CH-47 and UH-60 aircrews, enhancing the safety and operational requirements of current tethered systems. The Cockpit Air Bag System (CABS) is a supplemental restraint system that reduces aviator deaths and injuries caused by body and head impact with cockpit structures in an otherwise survivable crash. The Personnel Recovery Support Equipment (PRSE) program includes the modification, integration, procurement, and fielding of PRSE classified components onto its operational platform and provides the Army significantly enhanced ability to respond to occurrences of isolated, missing, detained or captured Soldiers in a timely and effective manner.										
Justification: FY 2009 Global War on Terrorism (GWOT) funds procure a supplemental oxygen system that supports aircrews conducting missions at high altitudes and prevents hypoxia which can potentially lead to loss of aircraft and life; a hydration system for crew members in a combat survival, evasion, resistance, and escape (SERE) environment; Integrated Survival Kit that provides carrying capability for essential crew survival items in SERE environment; and Communication Enhancement and Protection System (CEPS) external audio that provides capability for medics to communicate with injured Soldiers without removing their helmets.										
	OIF	OEF	Total							
FY 2009 GWOT Request:	\$2.028 Million	\$1.556 Million	\$3.584 Million							

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities			P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)			Weapon System Type:		Date: February 2009	
ACFT Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
FY 2009 GWOT Request											
Supplemental Oxygen System								1556	116		13.4
Hydration System								322	2740		0.1
Integrated Survival Kit								537	2742		0.2
Comm. Enhanc. and Prot. Sys. (CEPS)								1169	7700		0.2
Total FY 2009 GWOT Request								3584			
Total:								3584			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

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
Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities										
		Weapon System Type: P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110)								
Supplemental Oxygen System FY 2009	U S Divers Co Inc Vista, CA	C/FFP	Aberdeen Proving Grd	Sep 09	Jun 10	116	13.4	Yes		Jun 08
Hydration System FY 2009	TBS TBS	C/FFP	TBS	Sep 09	Jun 10	2740	0.1	Yes		Aug 09
Integrated Survival Kit FY 2009	TBS TBS	C/FFP	TBS	Sep 09	Jun 10	2742	0.2	Yes		Aug 09
Comm. Enhanc. and Prot. Sys. (CEPS) FY 2009	TBS TBS	C/FFP	TBS	Sep 09	Mar 10	7700	0.2	Yes		Aug 09

REMARKS:

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date:
February 2009

COST ELEMENTS						Fiscal Year 11												Fiscal Year 12												Later
MFR	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11												Calendar Year 12												
						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	
Supplemental Oxygen System																														
2	FY 09	A	116	116																								0		
Hydration System																														
1	FY 09	A	2740	912	1828	228	228	228	228	228	228	228	232															0		
Integrated Survival Kit																														
1	FY 09	A	2742	912	1830	228	228	229	229	229	229	229	229															0		
Comm. Enhanc. and Prot. Sys. (CEPS)																														
1	FY 09	A	7700	4487	3213	642	642	642	642	645																		0		
Total						13298	6427	6871	1098	1098	1099	1099	1102	457	457	461														
						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	

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
2	U S Divers Co Inc, Vista, CA	30	100	150		2	6	11	9	20	
							0	2	7	9	

Exhibit P-40, Budget Item Justification Sheet	Date: February 2009
--	---------------------

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

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

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				21.0						21.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				21.0						21.0
Initial Spares										
Total Proc Cost				21.0						21.0
Flyaway U/C										
Weapon System Proc U/C										

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

Justification:
FY09 Global War on Terrorism (GWOT) funds required for SATCOM Systems.

OEF
FY 2009 GWOT Request: \$21.000 Million

Exhibit P-5, Weapon ACFT Cost Analysis		Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities			P-1 Line Item Nomenclature: AIRBORNE COMMUNICATIONS (AA0705)			Weapon System Type:		Date: February 2009	
ACFT Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FY09 GWOT REQUEST											
SATCOM									21000		
FY09 GWOT REQUEST TOTAL									21000		
Total:									21000		