UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE

PROCUREMENT PROGRAM

FISCAL YEAR (FY) 2009
BUDGET ESTIMATES

OTHER PROCUREMENT

SUBMITTED TO CONGRESS FEBRUARY 2008

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

Table of Contents

Tables of contents are provided for each of the budget activities at the appropriate tabs. The budget activities are as follows:

Vehicular Equipment
Electronics & Telecommunications Equipment
Other Base Maintenance and Support Equipment
Spares and Repair Parts

IDENTIFICATION CODES

Code “A” - Line items of material which have been approved for Air Force service use.
Code “B” - Line items of material that have not been approved for Service use

GLOSSARY

Contract Method

ALLOT - Allotment
C - Competitive
DO - Delivery Order
FCA - Fund Cite Authorization
MIPR - Military Interdepartmental Purchase Request
OA - Obligation Authority
OPT - Option
OTH - Other
PO - Project Order
REQN - Requisition
SS - Sole Source
WP - Work Project
MIPR-OPT - Military Interdepartmental Purchase Request - Option
MIPR-C - Military Interdepartmental Purchase Request - Competitive
MIPR-SS - Military Interdepartmental Purchase Request - Sole Source
MIPR-OTH - Military Interdepartmental Purchase Request - Other

Contract Type

FP - Fixed Price
FFP - Firm Fixed Price
FPIS - Fixed Price Incentive with Successive Targets
FPAF - Fixed Price Award Fee
FPE - Fixed Price with Escalation
FPIF - Fixed Price Incentive Fee
CPAF - Cost Plus Award Fee
CPFF - Cost Plus Fixed Fee
CPIF - Cost Plus Incentive Fee
ID/IQ - Indefinite Delivery/Indefinite Quantity
M-5 (Yr 1) - Multiyear, 5 years (Yr 1)
M-5 (Yr 2) - Multiyear, 5 years (Yr 2)
M-5 (Yr 3) - Multiyear, 5 years (Yr 3)
M-5 (Yr 4) - Multiyear, 5 years (Yr 4)
M-5 (Yr 5) - Multiyear, 5 years (Yr 5)
OTH - Other

Contracted By

11 WING - 11th Support Wing, Washington, DC
ACC - Air Combat Command, Langley AFB, VA
AEDC - Arnold Engineering Development Center, Arnold AFB, TN
AAC – Air Armament Center, Eglin AFB, FL
AEDC – Arnold Engineering Development Center, Arnold AFB, TN
AETC - Air Education and Training Command, Randolph AFB, TX
AFCIC - Air Force Communications and Information Center, Washington, DC
AFCESA - Air Force Civil Engineering Support Agency, Tyndall AFB, FL

AFFTC - Air Force Flight Test Center, Edwards AFB, CA
AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH
AFMETCAL - Air Force Metrology and Calibration Office, Heath, Ohio
AFMLO - Air Force Medical Logistics Office, Ft Detrick, MD
AIA - Air Intelligence Agency, Kelly AFB, TX
AMC - Air Mobility Command, Scott AFB, IL
ASC - Aeronautical Systems Center, Wright-Patterson AFB, OH & Eglin AFB, FL
AFWA - Air Force Weather Agency, Offutt AFB, NE
DGSC - Defense General Support Center, Richmond, VA
DPSC - Defense Personnel Support Center, Philadelphia, PA
ER - Eastern Range, Patrick AFB, FL
ESC - Electronic Systems Center, Hanscom AFB, MA
HSC - Human Services Center, Brook AFB, TX
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK
OO-ALC - Ogden Air Logistics Center, Hill AFB, UT
SMC - Space & Missile Systems Center, Los Angeles AFB, CA
US STRATCOM - US Strategic Command, Offutt AFB, NE
WACC - Washington Area Contracting Center, Washington DC
WR - Western Range, Vandenberg AFB, CA
WR-ALC - Warner-Robins Air Logistics Center, Robins AFB, GA
AFSPC - Air Force Space Command, Peterson AFB, CO
HQ ANG - Headquarters, Air National Guard, Washington, DC
USAFE - United States Air Force Europe, Ramstein AB, GE
USAFA - United States Air Force Academy, Colorado Springs, CO
SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL

Bases/Organizations

11 WING - 11th Support Wing
ACC - Air Combat Command

AETC - Air Education & Training Command
AFCAO - Air Force Computer Acquisition Office
AFCESA - Air Force Civil Engineering Support Agency
AFCIC - AF Communications & Information Center
AFCSC - Air Force Cryptologic Service Center
AFESC - Air Force Engineering Services Center
AFGWC - Air Force Global Weather Central
AFIT - Air Force Institute of Technology
AFMC - Air Force Materiel Command
AFMETCAL - Air Force Metrology and Calibration Office
AFMLO - Air Force Medical Logistics Office
AFNEWS - Air Force Information & News Service Center
AFOSI - Air Force Office of Special Investigation
AFOTEC - Air Force Operational Test & Evaluation Center
AFPC - Air Force Personnel Center
AFPSL - AF Primary Standards Lab
AFR - Air Force Reserve
AFSOC - AF Special Operations Command
AFSPC - Air Force Space Command
AIA - Air Intelligence Agency
AMC - Air Mobility Command
ANG - Air National Guard
AU - Air University
AWS - Air Weather Service
CIA - Central Intelligence Agency
DGSC - Defense General Support Center
DLA - Defense Logistics Center
DOE - Department of Energy
DSCC - Defense Supply Center, Columbus
DPSC - Defense Personnel Support Center

ER - Eastern Range
ESC - Electronic Systems Center
FAA - Federal Aviation Agency
FBI - Federal Bureau of Investigation
GSA - General Services Administration
JCS - Joint Chiefs of Staff
JCS - Johnson Space Center
NATO - North Atlantic Treaty Organization
NBS - National Bureau of Standards
PACAF - Pacific Air Forces
USAF - United States Air Force
USAFA - United States Air Force Academy
USAFE - United States Air Force Europe
USCENTCOM - United States Central Command
USEUCOM - United States European Command
USMC - United States Marine Corps
USSTRATCOM - United States Strategic Command
WPAFB - Wright-Patterson AFB, OH
WR - Western Range

APPROPRIATION LANGUAGE

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of passenger motor vehicles, and the purchase of 2 vehicles required for physical security of personnel, notwithstanding price limitations applicable to passenger vehicles, but not to exceed $303,000 per vehicle; lease of passenger motor vehicles; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government and contractor-owned equipment layaway, $16,128,396,000 to remain available for obligation until September 30, 2011.

Department of the Air Force
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE DATE: 14 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT									
	PASSENGER CARRYING VEHICLES								
1	ARMORED VEHICLE	A	1	.5					U
2	PASSENGER CARRYING VEHICLES	A	153	14.7		19.1		17.7	U
	CARGO + UTILITY VEHICLES								
3	MEDIUM TACTICAL VEHICLE	A		206.1		5.3		23.0	U
4	HIGH MOBILITY VEHICLE (MYP)	A		4.1					U
5	CAP VEHICLES	A		.7		.9		.9	U
	SPECIAL PURPOSE VEHICLES								
6	HMMWV, ARMORED	A		4.2					U
7	SECURITY AND TACTICAL VEHICLES	A		15.5				30.6	U
	FIRE FIGHTING EQUIPMENT								
8	FIRE FIGHTING/CRASH RESCUE VEHICLES	A		40.3		26.8		27.0	U
	MATERIALS HANDLING EQUIPMENT								
9	HALVERSEN LOADER	A		11.0		7.5			U
	BASE MAINTENANCE SUPPORT								
10	RUNWAY SNOW REMOV AND CLEANING EQU	A		30.5		25.7		23.1	U
11	ITEMS LESS THAN $5,000,000(VEHICLES)	A		32.5		48.7		40.0	U
	CANCELLED ACCOUNT ADJUSTM								
15	CANCELLED ACCOUNT ADJUSTMENTS (BPA	A		.1					U
TOTAL VEHICULAR EQUIPMENT				360.1		134.1		162.2	

* The P-1 numbers in this exhibit, and the individual documents do not match the P-1 numbers in the Summary Justification Materials on the OSD Website. Please reference the P-1 Crosswalk at the end of the J-book.

Department of the Air Force
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE DATE: 14 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
	BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIP								
	COMM SECURITY EQUIPMENT(COMSEC)								
19	COMSEC EQUIPMENT	A		120.8		118.4		137.9	U
20	MODIFICATIONS (COMSEC)	A		.7		1.5		1.6	U
	INTELLIGENCE PROGRAMS								
21	INTELLIGENCE TRAINING EQUIPMENT	A		5.2		3.0		2.7	U
22	INTELLIGENCE COMM EQUIPMENT	A		18.2		24.0		15.4	U
	ELECTRONICS PROGRAMS								
23	AIR TRAFFIC CONTROL & LANDING SYS	A		7.7		8.8		9.8	U
24	NATIONAL AIRSPACE SYSTEM	A		62.2		50.0		47.2	U
25	THEATER AIR CONTROL SYS IMPROVEMEN	A		93.0		52.9		68.5	U
26	WEATHER OBSERVATION FORECAST	A		31.7		23.5		29.4	U
27	STRATEGIC COMMAND AND CONTROL	A		27.0		40.9		53.7	U
28	CHEYENNE MOUNTAIN COMPLEX	A		11.2		18.5		13.7	U
29	DRUG INTERDICTION SPT	A		8.7		.4		1.0	U
	SPCL COMM-ELECTRONICS PROJECTS								
30	GENERAL INFORMATION TECHNOLOGY	A		127.3		122.2		100.1	U
31	AF GLOBAL COMMAND & CONTROL SYS	A		13.8		14.2		16.1	U
32	MOBILITY COMMAND AND CONTROL	A		9.6		10.3		10.5	U
33	AIR FORCE PHYSICAL SECURITY SYSTEM	A		57.6		84.6		57.7	U
34	COMBAT TRAINING RANGES	A		58.3		91.2		55.3	U
35	MINIMUM ESSENTIAL EMERGENCY COMM N	A				10.6		*	U

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Department of the Air Force
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE DATE: 14 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
36	C3 COUNTERMEASURES	A		4.5		7.4		7.8	U
37	GCSS-AF FOS	A		49.3		27.5		55.8	U
38	THEATER BATTLE MGT C2 SYSTEM	A		23.5		22.5		22.5	U
39	AIR & SPACE OPERATIONS CTR-WPN SYS	A		26.8		43.4		35.1	U
	AIR FORCE COMMUNICATIONS								
41	BASE INFO INFRASTRUCTURE	A		322.4		320.9		337.2	U
42	USCENTCOM	A		38.4		112.8		42.7	U
	DISA PROGRAMS								
43	SPACE BASED IR SENSOR PGM SPACE	A		6.5		4.0		80.4	U
44	NAVSTAR GPS SPACE	A		5.7		14.0		25.5	U
45	NUDET DETECTION SYS SPACE	A		12.8		16.3		27.6	U
46	AF SATELLITE CONTROL NETWORK SPACE	A		72.0		49.7		65.4	U
47	SPACELIFT RANGE SYSTEM SPACE	A		117.3		121.3		102.0	U
48	MILSATCOM SPACE	A		75.3		117.6		106.3	U
49	SPACE MODS SPACE	A		23.9		26.3		23.1	U
50	COUNTERSPACE SYSTEM	A		30.2		22.7		29.2	U
	ORGANIZATION AND BASE								
51	TACTICAL C-E EQUIPMENT	A		183.4		206.6		293.2	U
52	COMBAT SURVIVOR EVADER LOCATER	A		71.1		26.9		26.9	U
53	RADIO EQUIPMENT	A		14.1		12.2		13.5	U
54	TV EQUIPMENT (AFRTV)	A		2.7		3.1			U
55	CCTV/AUDIOVISUAL EQUIPMENT	A		8.4		9.8		7.4	U
56	BASE COMM INFRASTRUCTURE	A		164.9		135.7		135.8	U

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Department of the Air Force
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE DATE: 14 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
57	ITEMS LESS THAN $5,000,000	A		4.1					U
	MODIFICATIONS								
61	COMM ELECT MODS	A		42.9		39.2		33.3	U
	TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIP			1,953.1		2,014.9		2,091.1	
	BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIP								
	PERSONAL SAFETY & RESCUE EQUIP								
64	NIGHT VISION GOGGLES	A		28.5		25.2		18.6	U
	DEPOT PLANT+MTRLS HANDLING EQ								
65	MECHANIZED MATERIAL HANDLING EQUIP	A		14.5		22.0		21.6	U
	BASE SUPPORT EQUIPMENT								
66	BASE PROCURED EQUIPMENT	A		32.0		27.9		17.0	U
67	MEDICAL/DENTAL EQUIPMENT	A		17.9					U
68	CONTINGENCY OPERATIONS	A		16.4		6.2		6.5	U
69	PRODUCTIVITY CAPITAL INVESTMENT	A		5.4		3.0		3.0	U
70	MOBILITY EQUIPMENT	A		25.9		36.7		26.5	U
71	ITEMS LESS THAN $5,000,000 (BASE S)	A		58.4		45.3		14.2	U
	SPECIAL SUPPORT PROJECTS								
73	PRODUCTION ACTIVITIES	A							
74	DARP RC135	A		23.6		22.4		22.9	U
75	DISTRIBUTED GROUND SYSTEMS	A		221.5		198.0		251.8	U
76	SELECTED ACTIVITIES	A							
77	SPECIAL UPDATE PROGRAM	A		460.6		521.6		410.4	U

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Department of the Air Force
FY 2009 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE DATE: 14 JAN 2008

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2007 QUANTITY	FY 2007 COST	FY 2008 QUANTITY	FY 2008 COST	FY 2009 QUANTITY	FY 2009 COST	SEC
78	DEFENSE SPACE RECONNAISSANCE PROG.	A		15.1		15.5		15.8	U
	TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIP			16,563.6		13,194.1		13,849.4	
	BUDGET ACTIVITY 05: SPARES AND REPAIR PARTS								
	SPARES AND REPAIR PARTS								
85	SPARES AND REPAIR PARTS	A		30.1		22.0		25.6	U
	TOTAL SPARES AND REPAIR PARTS			30.1		22.0		25.6	
	TOTAL OTHER PROCUREMENT, AIR FORCE			18,906.9		15,365.1		16,128.4	

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

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VEHICULAR EQUIPMENT

* The P-1 numbers in this exhibit, and the individual documents do not match the P-1 numbers in the Summary Justification Materials on the OSD Website. Please reference the P-1 Crosswalk at the end of the J-book.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** PASSENGER CARRYING VEHICLES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$14,676	$19,125	$17,662	$18,568	$17,664	$17,987	$18,363

Description:

FY2007 funding total includes $0.360M in GWOT supplemental
FY2008 funding total does not include $23.396M in FY2008 GWOT requirements still pending

The Passenger Carrying Vehicles P-1 line includes the procurement of Sedans, Station Wagons, Law Enforcement Sedans, Ambulances and Buses. These vehicles are general in nature, but they fulfill unique and distinct needs commensurate with their design.

Sedans are available in compact, mid-size, and large, and are used to support a variety of functions and missions at all levels of the Air Force. A portion of these sedans are dedicated for use by the Office Special Investigation (OSI) and a portion are procured as chase cars used to support U-2 aircraft operations.

Station Wagons are mid-sized vehicles which are primarily used to transport personnel and light cargo. They are mostly used in overseas locations and some high security areas located near missile installations. They are also used in the maintenance and flying operation areas to support aircraft sortie generation.

Law Enforcement Sedans (LE Sedans) come equipped with a heavy-duty component package for law enforcement and security missions. Security forces personnel use this type of vehicle for emergency response, traffic control, patrol duties, and base security operations.

Ambulances include both bus ambulances and modular ambulances that are used for medical evacuation operations. The bus ambulance is a 44 passenger bus converted to accommodate massive patient transport for medical emergency situations and humanitarian/disaster relief operations. The modular models are standard commercial ambulances that are available in 4x2 and 4x4 configurations. They are used for the movement of patients under field conditions, aircraft crash rescue operations, and routine transportation of patients to and from medical facilities.

Buses include a variety of commercial vehicles that support a broad range of mass transit requirements. Bus sizes range from the 16 passenger shuttle bus to

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** PASSENGER CARRYING VEHICLES

Description (continued):

the 52 passenger bus. These vehicles support Air Education and Training Command (AETC) training units, Air Force band organizations, protocol offices and several other missions.

Items requested in FY09 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

	P-1 ITEM NO 2		PAGE NO: 2		Page 2 of 2

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMPACT SEDAN, UNITED STATES	A			48	$610	84	$1,616	14	$202
COMPACT SEDAN, JAPAN	A					3	$31	4	$59
COMPACT SEDAN, UNITED STATES, BIFUEL	A			1	$14				
MIDSIZE SEDAN, UNITED STATES	A			8	$140			4	$57
SUBCOMPACT SEDAN, UNITED STATES	A			1	$35			8	$291
STATION WAGON, UNITED STATES	A			7	$140	17	$376	25	$508
STATION WAGON, JAPAN	A			3	$44	2	$28		
STATION WAGON, UNITED STATES, BIFUEL	A			3	$86				
L.E. SEDAN, UNITED STATES	A			12	$210	66	$1,278	23	$455
L.E. SEDAN, JAPAN	A			13	$189	3	$45	3	$55
L.E. SEDAN, UNITED STATES, BIFUEL	A			3	$85			9	$255
AMB, 44 PAX CONV US	A			13	$1,397	13	$1,524	10	$1,303
AMB, MOD 4X4	A			6	$470	15	$1,252	8	$811
AMB, MOD 4X4 JAPAN	A							1	$130
AMB, MOD 4X2 US	A			4	$300	12	$949	7	$640

	P-1 ITEM NO		PAGE NO:		
	2		3		Page 1 of 2

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
PASSENGER CARRYING VEHICLES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AMB, MOD 4X2 JAPAN	A			6	$480			5	$649
BUS, 41 PAX US	A			18	$5,873	8	$2,718	12	$3,998
BUS, 41 PAX JAPAN	A					3	$1,097		
BUS, 16 PAX US	A			8	$428	4	$216	5	$285
BUS, 16 PAX JAPAN	A					1	$48	3	$148
BUS, 28 PAX	A			10	$726	38	$3,411	26	$2,518
BUS, 44 PAX US	A			23	$1,760	40	$4,151	47	$4,993
BUS, 44 PAX US CNG	A					1	$99		
BUS, 44 PAX JAPAN	A			3	$230	3	$224	4	$304
BUS, 44 PAX MED US	A			11	$1,342				
BUS, 23 PAX SURREY	A			2	$120				
MIDSIZE SEDAN, BIFUEL	A					2	$62		
TOTALS:				203	$14,676	315	$19,125	218	$17,662

Remarks:
Cost information is in thousands of dollars.

	P-1 ITEM NO		PAGE NO:		Page 2 of 2
	2		4		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
COMPACT SEDAN, UNITED STATES									
FY2007	48	$12,700	AFMC/WR-ALC	MIPR/C/FFP	GSA/ GM/ DETROIT, MI	Mar-07	Jun-07		
FY2008	84	$19,239	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-08	Jul-08	Yes	
FY2009	14	$14,426	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-09	Jul-09	Yes	
COMPACT SEDAN, JAPAN									
FY2008	3	$10,455	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-08	Sep-08	Yes	
FY2009	4	$14,659	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-09	Sep-09	Yes	
COMPACT SEDAN, UNITED STATES, BIFUEL									
FY2007	1	$14,450	AFMC/WR-ALC	MIPR/C/FFP	GSA/ GM/ DETROIT, MI	Apr-07	Jul-07		
MIDSIZE SEDAN, BIFUEL									
FY2008	2	$30,773	AFMC/WR-ALC	MIPR/FFP	GSA/ UNKNOWN	Apr-08	Jul-08	Yes	
MIDSIZE SEDAN, UNITED STATES									
FY2007	8	$17,487	AFMC/WR-ALC	MIPR/C/FFP	GSA/ FORD/ DETROIT, MI	Mar-07	Jul-07		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009	4	$14,128	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-09	Jul-09	Yes	
SUBCOMPACT SEDAN, UNITED STATES									
FY2007	1	$35,007	AFMC/WR-ALC	FCA/FFP	CENTRAL VALLEY BUICK/ MANTECA, CA	Apr-07	May-07		
FY2009	8	$36,391	AFMC/WR-ALC	FCA/FFP	HQ ACC/ UNKNOWN	Mar-09	Apr-09	Yes	
STATION WAGON, UNITED STATES									
FY2007	7	$20,000	AFMC/WR-ALC	MIPR/C/FFP	GSA/ FORD/ DEARBORN, MI	Mar-07	Jun-07		
FY2008	17	$22,121	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-08	Jul-08	Yes	
FY2009	25	$20,311	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-09	Jul-09	Yes	
STATION WAGON, JAPAN									
FY2007	3	$14,500	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ MAZDA/ JA	Jun-07	Oct-07		
FY2008	2	$14,109	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Apr-08	Jun-08	Yes	
STATION WAGON, UNITED STATES, BIFUEL									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007	3	$28,550	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/ FORD/ DEARBORN, MI	Mar-07	Jun-07		
L.E. SEDAN, UNITED STATES									
FY2007	12	$17,500	AFMC/WR-ALC	MIPR/C/FFP	GSA/ GM/ DETROIT, MI	Mar-07	Jun-07		
FY2008	66	$19,365	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-08	Jun-08	Yes	
FY2009	23	$19,773	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-09	Jun-09	Yes	
L.E. SEDAN, JAPAN									
FY2007	13	$14,550	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ MITSUBISHI/ TOKYO, JA	Jun-07	Sep-07		
FY2008	3	$14,839	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Apr-08	Jul-08	Yes	
FY2009	3	$18,428	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Apr-09	Jul-09	Yes	
L.E. SEDAN, UNITED STATES, BIFUEL									
FY2007	3	$28,250	AFMC/WR-ALC	MIPR/C/FFP	GSA/ GM/ DETROIT, MI	Apr-07	Jun-07		
FY2009	9	$28,300	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-09	Jun-09	Yes	
AMB, 44 PAX CONV US									

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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007	13	$107,450	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	May-07	Sep-07		
FY2008	13	$117,244	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-08	Sep-08	Yes	
FY2009	10	$130,346	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-09	Sep-09	Yes	
AMB, MOD 4X4									
FY2007	6	$78,250	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Nov-08	Yes	
FY2008	15	$83,495	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-08	Aug-08	Yes	
FY2009	8	$101,431	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-09	Aug-09	Yes	
AMB, MOD 4X4 JAPAN									
FY2009	1	$129,858	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Jul-09	Nov-09	Yes	
AMB, MOD 4X2 US									
FY2007	4	$75,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/ WHEELED COACH/ WINTER PARK, FL	Mar-07	Sep-07		
FY2008	12	$79,111	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Sep-08	Yes	
FY2009	7	$91,449	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Sep-09	Yes	

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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AMB, MOD 4X2 JAPAN									
FY2007	6	$80,000	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Apr-08	Jul-08	Yes	
FY2009	5	$129,858	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Oct-08	Nov-08	Yes	
BUS, 41 PAX US									
FY2007	18	$326,250	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Mar-07	Jan-08		
FY2008	8	$339,727	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Jan-09	Yes	
FY2009	12	$333,154	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Sep-09	Yes	
BUS, 41 PAX JAPAN									
FY2008	3	$365,591	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-08	Sep-08	Yes	
BUS, 16 PAX US									
FY2007	8	$53,500	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	May-08	Yes	
FY2008	4	$53,974	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Feb-08	Aug-08	Yes	
FY2009	5	$57,040	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Feb-09	Aug-09	Yes	

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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
BUS, 16 PAX JAPAN									
FY2008	1	$48,444	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-08	Sep-08	Yes	
FY2009	3	$49,456	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-09	Sep-09	Yes	
BUS, 28 PAX									
FY2007	10	$72,550	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Mar-07	Aug-07		
FY2008	38	$89,757	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Aug-08	Yes	
FY2009	26	$96,839	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Aug-09	Yes	
BUS, 44 PAX US									
FY2007	23	$76,505	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Dec-08	Yes	
FY2008	40	$103,774	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Sep-08	Yes	
FY2009	47	$106,243	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Sep-09	Yes	
BUS, 44 PAX JAPAN									
FY2007	3	$76,694	AFMC/WR-ALC	MIPR/FFP	NAVY/ MITSUBISHI FUSO TRUCK & BUS CORP/ KANAGAWA, JA	Aug-07	May-08		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** PASSENGER CARRYING VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2008	3	$74,515	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-08	Sep-08	Yes	
FY2009	4	$76,093	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-09	Sep-09	Yes	
BUS, 44 PAX MED US									
FY2007	11	$122,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/ INTERNATIONAL/ KNOXVILLE, TN	Mar-07	Jun-07		
BUS, 23 PAX SURREY									
FY2007	2	$60,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Mar-07	Jun-07		
BUS, 44 PAX US CNG									
FY2008	1	$99,105	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Sep-08	Yes	

Remarks:

Cost information is in actual dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** MEDIUM TACTICAL VEHICLES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$206,058	$5,332	$23,002	$24,398	$24,292	$24,799	$25,326

Description:

FY2007 funding total includes $154.140M in GWOT supplemental
FY2007 funding total includes $31.000M in DOD reprogramming to support higher priority Mine Resistant Ambush Protected (MRAP) Vehicles
FY2008 funding total does not include $474.000M in DOD transfer to support urgent warfighting needs for MRAP pursuant to P.L. 110-116
FY2008 funding total does not include $243.000M in DOD transfer to support urgent warfighting needs for MRAP pursuant to P.L. 110-92
FY2008 funding total does not include $7.524M in FY2008 GWOT requirements still pending
FY2008 funding total does not include $27.367M for requirements deferred to GWOT in the FY2008 Defense Appropriation Act

The Family of Medium Tactical Vehicles (FMTVs) have the capability to operate in austere, adverse terrain. These important tactical assets are used by Combat Communications Units, Air Support Operations Squadrons (ASOS), Explosive Ordinance Disposal (EOD) units, and other tactical direct mission support units throughout the Air Force. The US Army uses them extensively.

The Air Force uses these assets in joint operations with the Army. They are crucial in order to maintain commonality, compatibility of parts, and reciprocal maintenance support. These tactical vehicles are key to the Air Force's war fighting capability. Shortfalls of these vehicle types will impede execution of operations plans and result in less effective mission support and sustainment. These vehicles are critical in mission support and sustainment efforts and are a key part of contingency operations.

Mine Resistant, Ambush Protected (MRAP) vehicles provide increased armor protection from IED detonation for Air Force troops operating “outside the wire” in the Iraq and Afghanistan theater of operations. With the rise of asymmetric warfare, low-intensity conflicts, and the Global War on Terror, MRAP vehicles have proven invaluable in the safe transport of personnel and cargo in its tactical application. This vehicle satisfies the Air Force Explosive Ordinance Disposal (EOD), Civil Engineering (CE) and Security Forces (SF) requirements during essential ongoing force protection/anti-terrorism efforts. EOD will employ these vehicles as an unexploded ordinance teamwork platform; CE will use MRAP to support damage assessment and as an armored

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** MEDIUM TACTICAL VEHICLES

Description (continued):

personnel carrier; SF require the vehicle for force protection and air base defense operations extending five miles outside the base parameter; and Special operations battle Field Airman serving as combat controllers in the CENTAF AOR.

Items requested in FY09 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
MEDIUM TACTICAL VEHICLES

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T	A				68	$170,008	$11,561	3	$159,742	$479	50	$224,423	$11,221
TRK, TRACTOR, M1088 5 T	A							3	$118,999	$357	3	$233,418	$700
TRK, WRECKER, M1089A1 5 T	A				5	$424,851	$2,124	10	$381,329	$3,813	8	$469,566	$3,757
TRK, CGO, MTV, M1083A1, W/WINCH 5T	A				2	$170,603	$341				2	$241,435	$483
TRK, CGO, MTV, M1078A1 2.5 T	A				77	$143,750	$11,069	5	$136,498	$682	34	$201,222	$6,842
TRK, TRAC, LINE HAUL, M915A3	A				30	$171,333	$5,140						
MRAP VEHICLES	A				160	$1,080,783	$172,925						
PROGRAM MANAGEMENT AUTHORITY (PMA)							$2,250						
GOVERNMENT FURNISHED EQUIPMENT							$648						
TOTALS:					342		$206,058	21		$5,332	97		$23,002

Remarks:
Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: MEDIUM TACTICAL VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T									
FY2007(1)	68	$170,008	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/ SEALY, TX	Apr-08	Apr-09	Yes	
FY2008(4)	3	$159,742	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Apr-08	Apr-09	Yes	
FY2009(4)	50	$224,423	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes	
TRK, TRACTOR, M1088 5 T									
FY2008(4)	3	$118,999	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Apr-08	Apr-09	Yes	
FY2009(4)	3	$233,418	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes	
TRK, WRECKER, M1089A1 5 T									
FY2007(1)	5	$424,851	AFMC/WR-ALC	MIPR/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/ SEALY, TX	Apr-08	Apr-09	Yes	
FY2008(4)	10	$381,329	AFMC/WR-ALC	MIPR/FFP	MARINES/ UNKNOWN	Apr-08	Apr-09	Yes	
FY2009(4)	8	$469,566	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes	
TRK, CGO, MTV, M1083A1, W/WINCH 5T									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: MEDIUM TACTICAL VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1)	2	$170,603	AFMC/WR-ALC	MIPR/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/ SEALY, TX	Apr-08	Apr-09	Yes	
FY2009(4)	2	$241,435	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes	
TRK, CGO, MTV, M1078A1 2.5 T									
FY2007(1)	77	$143,750	AFMC/WR-ALC	MIPR/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/ SEALY, TX	Apr-08	Apr-09	Yes	
FY2008(4)	5	$136,498	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Apr-08	Apr-09	Yes	
FY2009(4)	34	$201,222	AFMC/WR-ALC	MIPR/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes	
TRK, TRAC, LINE HAUL, M915A3									
FY2007(2)	30	$171,333	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ FREIGHTLINER, LLC/ PORTLAND, OR	Sep-07	Feb-08		
MRAP VEHICLES									
FY2007(3)	160	$1,080,783	AFMC/WR-ALC	MIPR/OPT/IDIQ	MARINES/ FORCE PROTECTION INDUSTRIES, INC/ LADSON, SC	Jun-07	Apr-08		

Remarks:

Cost information is in actual dollars.

(1) Five year contract DAAE07-03-C-S023 basic awarded 17 Apr 03.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(2) Seven year contract DAE07-00-D-S022 basic awarded 07 SEP 00. J&A has extended this contract to MAR 2008. We are in the 7th year of the contract.
(3) M67854-07-D-5031 awarded 19 JUN 07.
(4) Army contract actions pending.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT					P-1 NOMENCLATURE: CAP VEHICLES			
		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$692	$869	$889	$910	$923	$941	$960

Description:

This program includes vehicles to support Civil Air Patrol (CAP) operational and management activities. The CAP program includes the procurement of vehicles to provide transportation for cadet and senior members attending meetings and functions of the AF auxiliary. Operational support applications include command and control for search and rescue, counterdrug, disaster relief, and training missions authorized as AF missions for their auxiliary.

Failure to provide funding for these vehicles will increase safety risks for transportation of over 20,000 CAP cadets and numerous ground teams who travel multiple times per year in support of rescue/relief missions and cadet activities. Several CAP vehicles are at their life expectancy, which necessitates replacement.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** SECURITY AND TACTICAL VEHICLES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$15,511	$0	$30,597	$32,638	$35,148	$23,125	$23,831

Description:

FY2008 funding total does not include $27.185M in FY2008 GWOT requirements still pending
FY2008 funding total does not include $38.939M for requirements deferred to GWOT in the FY 2008 Defense Appropriation Act

This program provides funding for Security and Tactical vehicles. This program includes the standard diesel powered HMMWV in all configurations used by the Air Force and the M1101 Cargo trailer that is towed by HMMWVs. With the rise of asymmetric warfare, low-intensity conflicts and the global war on terrorism, the HMMWV, especially in the armored configuration, has proven invaluable in the safe transport of personnel and cargo in its tactical application.

HMMWVs include Up-Armored, Armored, and Armor Ready Tactical HMMWVs. The Air Force and the Army jointly program these requirements to provide an armored vehicle that will satisfy both services' requirements. This vehicle satisfies Air Force Explosive Ordnance Disposal (EOD), Civil Engineering (CE), and Security Forces (SF) requirements as well as essential ongoing Force Protection/Anti-Terrorism efforts. EOD employs this vehicle as an unexploded ordinance teamwork platform; CE uses it to support damage assessment and as an Armored Personnel Carrier; and SF require this vehicle for force protection and Air Base Defense operations. In overseas locations, the Up-Armored HMMWV is a must-have asset in meeting SF protection needs. The diverse environments within Southwest Asia require a vehicle that has 4X4 capability and provides adequate protection from hostile fire in dangerous situations. In stateside locations, the vehicle is used primarily in a nuclear support role as directed by DOD Directive 5210.41-M, Nuclear Weapon Security Manual. The directive requires suitable security vehicles that enhance mobility and meet the highest standards of reliability and maintainability. These items are critical (deployed) assets used in direct support of Air Force units engaged in contingency operations.

The Light High Mobility Trailer is designed to be towed by a vehicle without air brake connections. This trailer has a 1 ton capacity and can be towed up to 55 mph in highway conditions. It has various applications and provides the forces with a light, nimble, rugged trailer built primarily for hauling light cargo.

The USAF will begin transitioning to the Army's new Up-Armored HMMWV as soon as a USAF variant becomes available. The total inventory objective for

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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** SECURITY AND TACTICAL VEHICLES

Description (continued):

Security and Tactical vehicles is 5,068. The procurement requirement for shortages and replacements is 1,531.

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
SECURITY AND TACTICAL VEHICLES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HMMWV, UPARMORED (M1116)	A			30	$7,625			74	$16,197
HMMWV, UPARMORED (M1145)	A							18	$3,165
HMMWV, ARMORED (M1025A2)	A			33	$3,997			24	$3,000
HMMWV, UTIL (M1097A2)	A			18	$2,276			45	$5,486
HMMWV, (M1113)	A			8	$827			17	$1,954
HIGH MOBILITY TRAILER, LIGHT M1101	A			100	$786			81	$671
M-105 TRAILER CARGO	A							6	$125
TOTALS:				189	$15,511			265	$30,597

Remarks:
Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
HMMWV, UPARMORED (M1116)									
FY2007(1)	30	$254,163	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Apr-08	Apr-09	Yes	
FY2009	74	$218,879	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Jan-09	Dec-09	Yes	
HMMWV, UPARMORED (M1145)									
FY2009	18	$175,835	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes	
HMMWV, ARMORED (M1025A2)									
FY2007	33	$121,133	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Mar-08	Mar-09	Yes	
FY2009	24	$124,995	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes	
HMMWV, UTIL (M1097A2)									
FY2007	18	$126,421	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Mar-08	Mar-09	Yes	
FY2009	45	$121,907	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes	

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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: SECURITY AND TACTICAL VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
HMMWV, (M1113)									
FY2007	8	$103,413	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Mar-08	Mar-09	Yes	
FY2009	17	$114,930	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes	
HIGH MOBILITY TRAILER, LIGHT M1101									
FY2007	100	$7,858	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ SILVER EAGLE/ PORTLAND, OR	Apr-08	Sep-08	Yes	
FY2009	81	$8,278	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ SILVER EAGLE/ PORTLAND, OR	Dec-08	Jun-09	Yes	
M-105 TRAILER CARGO									
FY2009	6	$20,835	AFMC/WR-ALC	MIPR/C/FFP	ARMY/ UNKNOWN	May-09	Aug-09	Yes	

Remarks:

Cost information is in actual dollars.

(1) FY07 buy has not been initiated due to integration efforts resulting from vehicle model changes. Integration efforts will be complete 30 JAN 2008 and contract will award 30 APR 2008.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** FIRE FIGHTING/CRASH RESCUE VEHICLES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$40,293	$26,833	$27,020	$27,713	$27,281	$27,817	$28,370

Description:

FY2007 funding total includes $18.888M in GWOT supplemental
FY2008 funding totals do not include $15.200M in FY2008 GWOT requirement still pending

This P-1 line procures a variety of critical fire fighting and crash rescue vehicles. Specifically:

The P-19 Crash Truck is an Air Rescue and Fire Fighting (ARFF) vehicle that is the first response vehicle on the scene of an aircraft fire emergency. It equips bases with the capability to rapidly extinguish aircraft fires. This truck is a mandatory flight line operations safety requirement and is essential at bases with a flying mission. The P-19 also provides fire-fighting capability for Air National Guard and Air Force Reserve installations located at municipal airports. An installation's P-19 requirement is determined by the type of aircraft frequenting the aerial facility and the resulting gallons per minute of fire fighting agent required. This vehicle provides aircrew, passenger, weapons, and airframe fire protection at a crash site.

The P-23 Crash Truck is a larger version of the P-19 ARFF truck and has a larger fire suppression agent capacity. It is primarily assigned at transport, bomber, depot and cargo aircraft bases.

The P-26 Water Tanker Truck is a 4000-gallon re-supply truck used to support the ARFF vehicles, fight wild land fires and provide mutual assistance to communities.

The P22 and P-24 4x4 Pumper Truck is designed primarily to fight structural fires. It has a 750-gallon water tank and a 50-gallon Aqueous Film Forming Foam (AFFF) class "A" foam tank. It is capable of applying 1250 gallons per minute to a fire. The P-24 is built on a rugged 4x4 chassis that equips forces with limited off-road/rugged terrain capability. The P-22 4x2 Pumper Truck has the same fire fighting capability as the P-24 but is used in urban areas.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** FIRE FIGHTING/CRASH RESCUE VEHICLES

Description (continued):

The Fire Fighting Quint Truck is a fire fighting truck with a 75 foot aerial ladder. It provides improved agent delivery over older models as well as the capability to provide elevated delivery of agent involving high rise and warehouse facilities.

The P-31 Hazardous Material Vehicle is a dual-purpose vehicle that stows and transports hazardous material response equipment for the purpose of mitigating chemical leaks, spills, and releases. This vehicle also provides an incident command workstation area for the purpose of research, command, control, and communications during containment/cleanup operations.

The P-28 Heavy Rescue Vehicle is usually located at larger industrial bases and provides over 700 cubic feet of equipment storage space. This vehicle also provides lighting, a winch, and generator power at the rescue event.

The P-30 is a Medium Rescue Vehicle. It is designed to bring equipment, lighting, a winch and a generator to the scene of a rescue event. This vehicle has 450 cubic feet of storage space and affords easy equipment access and improved storage compartments. This truck is assigned to the larger industrial bases.

The P-32 is a Light Rescue Vehicle. Like the Heavy and Medium Rescue, it is designed to bring equipment, lighting, winch and a generator to the rescue scene. The P-32 has 250 cubic feet of storage space and is located primarily at smaller installations where the larger capacity trucks are not required.

These vehicles are built to meet the performance standards of the National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA), Federal Aviation Administration (FAA), and Air Force safety regulations.

Items requested in FY09 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
FIRE FIGHTING/CRASH RESCUE VEHICLES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRUCK, CRASH P-19	A			28	$20,316	13	$9,400	14	$10,195
TRUCK, CRASH P-23	A			4	$3,292	5	$4,144	3	$2,568
TRUCK, WATER TANKER P-26	A			13	$4,196	7	$2,201	9	$2,889
TRUCK, PUMPER 4X4 P-24	A			7	$3,056	6	$2,636	3	$1,355
TRUCK, PUMPER 4X2 P-22	A			8	$3,326	2	$850	7	$3,035
TRUCK, FIREFIGHTING QUINT	A			2	$1,201	3	$1,746	4	$2,375
VEHICLE, HAZARDOUS MATERIAL P-31	A					5	$2,034	5	$2,077
VEHICLE, HEAVY RESCUE P-28	A					1	$421		
VEHICLE, MEDIUM RESCUE P-30	A			9	$2,218	10	$2,500	6	$1,531
VEHICLE, LIGHT RESCUE P-32	A			18	$2,688	6	$901	6	$996
TOTALS:				89	$40,293	58	$26,833	57	$27,020

Remarks:
Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** FIRE FIGHTING/CRASH RESCUE VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TRUCK, CRASH P-19									
FY2007	28	$725,560	AFMC/WR-ALC	MIPR/IDIQ	DSCP/ OSHKOSH TRK CORP/ OSHKOSH, WI	Nov-07	Jan-09		
FY2008	13	$723,075	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	14	$728,182	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
TRUCK, CRASH P-23									
FY2007	4	$823,008	AFMC/WR-ALC	MIPR/IDIQ	DSCP/ OSHKOSH TRK CORP/ OSHKOSH, WI	Nov-07	Jan-09		
FY2008	5	$828,815	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	3	$855,838	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
TRUCK, WATER TANKER P-26									
FY2007	13	$322,807	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-08	Jan-09		
FY2008	7	$314,388	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	9	$321,013	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
TRUCK, PUMPER 4X4 P-24									

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: FIRE FIGHTING/CRASH RESCUE VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007	7	$436,565	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-08	Jan-09		
FY2008	6	$439,370	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	3	$451,570	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
TRUCK, PUMPER 4X2 P-22									
FY2007	8	$415,771	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-08	Jan-09		
FY2008	2	$424,895	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	7	$433,624	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
TRUCK, FIREFIGHTING QUINT									
FY2007	2	$600,377	AFMC/WR-ALC	MIPR/IDIQ	E-ONE/ OCALA, FL	Nov-07	Aug-08		
FY2008	3	$581,888	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	4	$593,841	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
VEHICLE, HAZARDOUS MATERIAL P-31									
FY2008	5	$406,851	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
FIRE FIGHTING/CRASH RESCUE VEHICLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009	5	$415,351	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
VEHICLE, HEAVY RESCUE P-28									
FY2008	1	$421,307	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
VEHICLE, MEDIUM RESCUE P-30									
FY2007	9	$246,474	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-08	Jan-09		
FY2008	10	$250,004	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	6	$255,139	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
VEHICLE, LIGHT RESCUE P-32									
FY2007	18	$149,338	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-08	Jan-09		
FY2008	6	$150,214	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes	
FY2009	6	$165,965	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	

Remarks:
Cost information is in actual dollars.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT					P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT			
		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$30,538	$25,742	$23,051	$25,750	$25,920	$26,430	$26,993

Description:

FY2007 funding total includes $0.400M in GWOT supplemental
FY2008 funding does not include $6.987M in FY2008 GWOT requirements still pending

This program procures a group of snow removal vehicles and commercial sweepers used on all airfield surfaces to remove snow and help prevent foreign object damage (FOD) to aircraft engines and tires. Snow removal equipment includes front mounted brooms, multi-purpose blowers, and plows. These vehicles provide critical mission support to airfield operations because fighter aircraft cannot land or take off with ice on the runway. Multi-purpose vacuum sweepers maintain airfields, roads, and grounds. Vacuum sweepers provide equally important support at all air bases due to the high cost of FOD and the potential for loss in FOD-related engine accidents.

These assets are critical to the Air Force mission. They are the primary equipment used snow, ice, and debris removal from runways and taxiways year round. The vital functions of these vehicles prevent the closing of airfields due to debris and/or snow & ice build up. The items contained within this P-1 line are critical due to their direct support of the flying mission at Air Force bases worldwide.

Items requested in FY09 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE:
RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CLEANER, VAC MULTIPURPOSE	A			9	$1,108	36	$4,072	16	$2,003
SNOW REMOVAL UNIT 3K TON PER HOUR	A			20	$6,967	34	$14,269	37	$15,813
RAPID RUNWAY REPAIR DIRT SWEEPER	A			18	$1,239	9	$562	6	$428
54K PLOW	A			4	$1,048	2	$458	5	$1,343
DUMP W/SNOW PLOW	A			24	$4,135	4	$703	7	$786
45K REVERSIBLE PLOW	A			45	$16,041	15	$5,680	10	$2,679
TOTALS:				120	$30,538	100	$25,742	81	$23,051

Remarks:

Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
CLEANER, VAC MULTIPURPOSE									
FY2007	9	$123,103	AFMC/WR-ALC	MIPR/IDIQ	ATLANTIC MACHINE/ SILVER SPRING, MD	Jun-07	Sep-07		
FY2008	36	$113,102	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Nov-08	Yes	
FY2009	16	$125,160	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Nov-09	Yes	
SNOW REMOVAL UNIT 3K TON PER HOUR									
FY2007	20	$348,363	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-08	Dec-09	Yes	
FY2008	34	$419,664	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	May-09	Yes	
FY2009	37	$427,366	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	May-10	Yes	
RAPID RUNWAY REPAIR DIRT SWEEPER									
FY2007	18	$68,813	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-08	Aug-08	Yes	
FY2008	9	$62,435	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Oct-08	Yes	
FY2009	6	$71,279	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Oct-09	Yes	
54K PLOW									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007	4	$262,041	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-08	Dec-09	Yes	
FY2008	2	$228,777	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Jun-09	Yes	
FY2009	5	$268,660	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Jun-10	Yes	
DUMP W/SNOW PLOW									
FY2007	24	$172,299	AFMC/WR-ALC	MIPR/IDIQ	GSA/ INTERNATIONAL/ KNOXVILLE, TN	Apr-07	Dec-07		
FY2008	4	$175,673	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Dec-09	Yes	
FY2009	7	$112,260	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Dec-10	Yes	
45K REVERSIBLE PLOW									
FY2007	45	$356,463	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-08	Dec-08	Yes	
FY2008	15	$378,639	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Jun-09	Yes	
FY2009	10	$267,911	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Jun-10	Yes	

Remarks:

Cost information is in actual dollars.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (VEHICLES)

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$32,534	$48,658	$39,984	$51,491	$52,009	$42,976	$43,645

Description:

FY2007 funding total includes $4.440M in GWOT supplemental.
FY2008 funding total includes $1.625M in supplemental funding.
FY2008 funding total does not include $12.500M in FY2008 GWOT requirements still pending

This program procures various vehicle groups with a cost of less than $5M. These vehicle groups consist of heavy wreckers, armored personnel carriers, maintenance/test vans, large capacity fork lifts, truck mounted deicers, extended reach deicers, high reach maintenance platforms, and heavy construction equipment (dozers, large cranes, large dump trucks, rock crushers, motorized scrapers, well-drilling vehicles, and compactors). The assets are critical to the Air Force mission and are key to keeping many sortie generation/sortie sustainment missions supported and operational. The types of items contained within this P-1 line are critical (deployed) assets used in direct support of Air Force units engaged in contingency operations.

Items requested in FY09 are identified on the following P-40A-IL and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (VEHICLES)

PROCUREMENT ITEMS	NSN			FY2009	
		QTY.	COST	QTY.	COST
TRUCK, LIQUID NITROGEN, C5A/B	2320000999346			10	$2,807
DOZER, T9	2410008165091			2	$716
TRUCK, DUMP 22 TON	3805009310616			4	$1,305
CRANE, 35T CRASH RECOVERY	3810010798358			2	$768
TRUCK, TRACTOR TOW U-30	1740013679485YW			9	$2,366
HI REACH MAINTENANCE PLATFORM	2320012490097YW			7	$4,051
TRUCK MOUNTED DEICER	1730005556205YW			34	$10,701
EXTENDED REACH DEICER	1730014955449YW			5	$3,312
EXPLOSIVE ORDNANCE DISPOSAL (EOD) VEHICLE	2320015009249			6	$1,933
EXCAVATOR, DIESEL ENGINE DRIVEN PT	3805011067176			7	$1,793
TRUCK, FORKLIFT 44K CONTAINER HANDLER	3930014662860			1	$294
SEWER TRUCK DUAL AXLE	2320015005501			1	$277
DOZER, T7	2410007561161			10	$2,581

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (VEHICLES)

PROCUREMENT ITEMS	NSN			FY2009	
		QTY.	COST	QTY.	COST
50T CRANE ROUGH TERRAIN	3810010679974			1	$519
7.5 TON CRANE	3810010673991			7	$2,555
CRANE 30 TON	3810015132990			9	$2,408
ROCK CRUSH/SCREEN PLANT 25 TONS/HOUR	3820011745594			1	$252
TRUCK, TELEPHONE MAINT S-90	2320004558464			3	$823
HEAVY ARMORED SEDAN	FSC2320			2	$524
TOTALS:					$39,984

Remarks:

Cost information is in thousands of dollars.

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

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ELECTRONIC & TELECOMMUNICATIONS EQUIPMENT

* The P-1 numbers in this exhibit, and the individual documents do not match the P-1 numbers in the Summary Justification Materials on the OSD Website. Please reference the P-1 Crosswalk at the end of the J-book.

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

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ELECTRONIC & TELECOMMUNICATIONS EQUIPMENT

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$120,835	$118,382	$137,914	$220,177	$308,898	$284,448	$334,086

Description:

This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to enable the secure transport of information. United States Air Force (AF) and the Department of Defense (DoD) require the capability to collect, process, and disseminate an uninterrupted flow of information, while denying an adversary's ability to interpret or manipulate. Secure communication allows the DoD to achieve Decision Superiority, the key to successful application of the Military Instrument of National Power. COMSEC equipment protects information such as warfighter positions, mission planning, target strikes, commanders' orders, intelligence, force strength and readiness. This program ensures adversaries can not interpret, manipulate, or destroy information. When an adversary is capable of interpretation, manipulation or destruction of the information used by the warfighter, successful missions against DoD military forces can occur and result in loss of life.

This program includes equipment upgrades and replacements which incorporate state-of-the-art technologies to provide critical mission war-fighter secure voice and data communications in space, tactical, strategic, and network applications for globally-deployed cryptologic assets supporting AF and DoD missions. Development funding for this program is in Program Element 0303140F (Information Systems Security Program).

1. COMSEC EQUIPMENT:

a. SPACE COMSEC PROGRAM: Space COMSEC equipment is a foundational element in achieving AF Space and Information Superiority and provides communications security products to all DoD satellite systems. It enables secure Command and Control (C2) of DoD satellites and prevents unauthorized access and destruction. It enables secure transmission of satellite systems' health and status telemetry data (satellite health and relative orbital position) to ground control stations, thus protecting critical information about the capabilities of DoD satellite systems. The capability of a system must be protected from an adversary to avoid exploitation of a system weakness/limitation, knowledge of which could assist an adversary in a successful mission against DoD military forces and potential loss of life. Space COMSEC also provides secure transmission of information collected by satellite sensors, which provides the warfighter an integrated view of the battle space. Space COMSEC procures and supports current space encryption products that operate in both

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

Description (continued):

the space and ground environment. Space COMSEC products are grouped in the following primary product families with associated logistics support:

(1) Mission Data: FY09 funding provides for the Mission Data products family which provides secure transmission for large volumes of satellite sensor data to the ground station for processing. Specifically, Mission Data products are eight-channel downlink decryption products used in ground station processing facilities. Sensor satellites collect large volumes of data which must be transmitted to ground stations for processing. The information protected provides military leaders an integrated and interactive view of the entire battle space. Current Mission Data Space COMSEC products achieve data rates up to 3.2 Gigabits per second (Gbps). Future satellite system requirements will continue to push the limits of Mission Data satellite link products with estimates in the 10 Gbps range. Mission Data products average $2 million per unit due to cutting-edge technology, multi-channel capacity, and low-rate production.

(2) Command/Telemetry (CMD/TLM): FY09 funding provides for CMD/TLM products providing secure transmission of satellite C2 uplinks and secure transmission of satellite telemetry and tracking data. All DoD satellite systems require secure C2 of the satellites, which make up the system and enable their missions. Satellite telemetry is securely transmitted from the satellite to the ground station to protect health and status information about DoD satellite systems. Funds procure a family of Ground Operating Equipment (GOE) sustainment and ground station products. CMD/TLM products cost from $10,000 to $180,000 per unit for stand-alone COMSEC units. The high cost can be attributed to the specialized government requirements and low-rate production.

(3) CMD/TLM Logistics: No FY09 funding requested.

b. AIR AND GROUND (A&G) COMSEC PROGRAM: The Air and Ground COMSEC Program procures and supports a wide range of secure encryption products supporting AF, Inter-Service, and various DoD agency customers, and includes items approved under National Security Agency's Commercial COMSEC Evaluation Program (CCEP) such as KIV-7M, KIV-19M, Taclane, and other High Assurance Internet Protocol Encryptor (HAIPE) devices. The program includes equipment upgrades and replacements that incorporate state-of-the-art technologies for mission-critical war-fighter secure voice and data communications. The program supports space, tactical, strategic and network applications for globally deployed cryptologic assets supporting Air Force and DoD. Supported systems fall within Air Force Information Systems Security and Information Assurance arenas. Air and Ground COMSEC funds the Air Force's 2nd Generation Wireless solution for AF non-core base operations.

(1) Key Generators: No FY09 funding requested.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

Description (continued):

(2) Secure Telephones: FY09 funds procure Secure Voice/Data Equipment in the Secure Communications Interoperability Protocol (SCIP) Family of Systems which provide secure and non-secure voice and data in digital or analog mode. Please note that these funds are not used to procure the common Secure Telephone Equipment (STE).

(3) Software System Upgrade: No FY09 funding requested.

(4) COMSEC Acquisition Reform (CAR): FY09 funding supports AF Major Commands that have emergency requirements for COMSEC equipment. The CAR program provides the Cryptologic Systems Group (CPSG) a wide range of products required for the protection of classified information. Products include DoD Type I COMSEC equipment and commercial cryptography products. Readily available equipment at CPSG enables a quick turn around for customers requiring Commercial COMSEC Endorsement Program (CCEP) products.

(5) Support Equipment: FY09 funding provides equipment used in support of the Information Technology Assistance Center (ITAC). The ITAC provides technical expertise on Information Assurance products and solutions for AF customers. This expertise stems from integration testing of new security products and systems, providing systems engineering support to the field, embedded COMSEC certification activities and training support for engineers and equipment specialists.

(6) Secure Communications Voice/Data: Procures secure communications voice/data products to secure communications over various transmission mediums. FY09 funding responds to Air Force Audit flagging network security vulnerabilities on Air Force unclassified networks introduced by proliferation of unsecured wireless LANs on Air Force installations. Procures secure wireless access points, encryption devices and monitoring equipment to eliminate unsecured wireless LANs at 14 high threat installations, to include Peterson, Vandenberg, Andrews, Scott and Langley Air Force Bases.

(7) In-Line Network Encryptors: Previously called "Network Encryption Systems". FY09 funding fields the new Inline Network Encryptors (INE) required to maintain the confidentiality, integrity and non-repudiation of classified communications. INEs are the mainstay for securing communications used in classified terrestrial and airborne communications networks. Most of the currently fielded INEs are nearing their sunset dates as determined by the NSA. The new INEs feature robust data encryption improvements included in the High Assurance Internet Protocol Encryptor Interoperability Specification (HAIPE IS) as well as Internet Protocol Version 6 (IPv6) capability that will result in improved security and available bandwidth.

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Description (continued):

(8) Embedded Encryption Devices: FY09 funding provides Embedded COMSEC modules developed for encrypting and decrypting serial pulse code modulated data for airborne communications systems that require a streaming narrowband signal. Embedded devices are used in various communication systems where size, weight, and power have to conform to very small packages. The Common Data Link and the Tactical Common Data Link are two of the systems employing these embedded devices.

(9) Telemetry Encryption/Decryption Devices: FY09 funds provide for Telemetry devices and equipment employed to test and verify the proper operation of state of art weapon systems used on combat aircraft deployed throughout the world. The telemetry devices and equipment encrypts/decrypt the test data to insure the specification of the weapons systems are not intercepted and compromised by the adversary.

(10) Link Encryption Family: This program was previously funded as a subset of "Network Encryption Systems" in FY07 and FY08. FY09 funds provide for the replacement of the legacy Link Encryption Family (LEF) with new more secure Crypto Mod compliant LEF devices. The LEF provide near real time secure communications for national and command level decision making authorities up to TOP SECRET SCI. The new LEF devices include more robust encryption algorithms as well as dual channel, increased bandwidth capability, and reprogramability. NSA has issued classified instructions regarding the use of specific LEF devices.

c. CRYPTOGRAPHIC MODERNIZATION: The DoD is transforming its existing operational capabilities to realize a seamless Joint network of information and engagement grids that link sensors, command and control cells, and tactical units to support future warfighting capabilities. The Global Information Grid (GIG) requires a transformed cryptographic inventory. Cryptographic Modernization (CM) delivers that inventory, ensuring a strong security posture for national security systems by providing transparent cryptographic capabilities consistent with operational imperatives and mission environments. The future inventory provides security devices that ease logistics, support Joint interoperability, improve interoperability with allies and coalition partners, enable network-centric and transparent key/equipment management, allow effective future upgrades, and offer cryptographic protection to counter modern threats. The CM program enables information dominance by modernizing increasingly aging, yet increasingly important, cryptographic equipment Air Force-wide by providing secure communications that enable operations such as Identification Friend Foe (IFF), Nuclear Command and Control (NC2), satellite control, and other missions requiring secure information transfer. Cryptographic Modernization procures products that have been under previous years development to meet NSA mandates.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: COMSEC EQUIPMENT

Description (continued):

(1) KS-60 (KI-22) Cryptographic Modernization: Previously called "Nuclear Command and Control (NC2) Crypto". FY09 funds will continue to support COMSEC equipment production for the MINUTEMAN II (MM II) mission network. The MM II network provides secure communications between the MM II Launch Control Center and Launch Facility which includes status, targeting data, launch-enable and launch-authorization commands. The KS-60 modernization is a form, fit and function (with added NSA cryptographic modernization functionality), box-for-box replacement for existing cryptographic equipment.

(2) Identification Friend or Foe (IFF) Cryptographic Modernization: FY09 funding continues critical modernization and replacement of the cryptographic capabilities provided by multiple IFF devices (to include the KIT-1C, KIR-1C, KIV-2, KIV-2A, KIV-3, and KIV-6). These devices are integrated into all airborne platforms and ground radar applications to encrypt and decrypt IFF information; providing critical, immediate aircraft identification data to ground and airborne systems.

(3) Space Crypto: FY09 funds support COMSEC modernization for satellite mission ground stations, satellite command and control networks and all future satellite programs. Space COMSEC products modernize equipment to integrate the new algorithms into future satellite systems.

(4) Combat Key Generator (CKG): Previously called KEESEE Based Crypto. FY09 funding procures CKG modernizations to extend the life of current equipment and funds the procurement of the KOK-13 replacement. The CKG is capable of generating and exporting keys in both legacy and modern algorithms and will be used in environments such as ground mobile, fixed shore, shipboard, and airborne command posts.

(5) F-22 Multi-Function Crypto: Previously called Algorithm/Key Modernized Crypto. No FY09 funding requested.

(6) Range Telemetry Encryption Modernization (RTEM): FY09 funds support modernization of KGV/68/68B, KG-66/66A, KGR-66, KGV-23, and KGV-29 encryption/decryption capabilities required by major DoD test and training ranges to securely transmit flight test data from airborne platforms, missiles, and munitions to ground-based (fixed and mobile) range facilities.

d. AIR FORCE ELECTRONIC KEY MANAGEMENT SYSTEM (AFEKMS) - AIR FORCE KEY MANAGEMENT INFRASTRUCTURE (AF KMI): The AF's EKMS and KMI programs are Acquisition Category (ACAT) III and sustainment programs providing secure, flexible and timely upgrades to cryptographic key generation, distribution and management systems. AFEKMS sustains the current Electronic Key Management System. AF KMI

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Description (continued):

modernizes the DoD's Crypto Key Management Infrastructure to provide secure, flexible and timely upgrades to cryptographic key generation, distribution and management capabilities and ensures the AF has a cryptographic modernized, net-centric, Global Information Grid (GIG)-compatible Key Management infrastructure. These programs provide capability with the ultimate goal of transforming the capability to support net-centric operations under KMI.

(1) Technical Updates: FY09 funding procures hardware and software products necessary to update key management workstations and maintain an audit trail for COMSEC materials.

(2) Tier 2 Net Key Server (NKS): Previously called Tier 2 LAN/NET Key Server. No FY09 funding requested.

(3) KOV-21 Cards & Refresh: Previously titled "KOV-21 Cards". FY09 funding procures KOV-21 cards, which are the crypto engine for the Simple Key Loader (SKL). KOV-21 card's life expectancy is approximately 7-10 years depending on use. Technical refresh projected to begin FY10 and continue incrementally though the FYDP until Last Mile Client is fielded.

(4) Simple Key Loader (SKL) & Refresh: Previously titled "Simple Key Loader (SKL) (with and without KOV-21 cards)". FY09 funding procures AN/PYQ-10(C) SKL units which are controlled cryptographic items that are mission essential to help the Air Force load Crypto Key into various platforms. SKLs replace the obsolete AN/CYZ-10 (Data Transfer Device). Disruption of the SKL delivery schedule could degrade and/or disrupt secure communications in the battlefield.

(5) Program Support (PMA): FY09 funding is for program support activities required for device production. Permits the System Program Office (SPO) to support the fielding and installation of new and developing capabilities. This includes the initial bed down and operability testing, technical interchange meetings, and events incident to fielding both hardware and software products, and maintaining configuration control of fielded products.

(6) Protect Channel: FY09 funding procures approved in-line network encryption devices that secure network communications. These devices provide Air Force users with additional connectivity medium for faster download of COMSEC key material, and increases available bandwidth. Provides for a more robust network internet protocol (IP) instead of the public switched telephone network (PSTN) network.

(7) Tactical Key Loader (TKL): FY09 funding is required to purchase the combined future replacement for the KYX-15A (Net Control Device), the

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Description (continued):

KYK-13 (Electronic Transfer Device) and the KOI 18. The TKL is a significantly smaller keying device, providing a light-weight, durable, and deployable device available to the most forward edge user.

(8) Simple Key Loader-Wireless (SKL-W): FY 09 funding is required to purchase a peripheral device package that enables the SKL to distribute black data through a multitude of wireless means. The SKL-W will allow for additional PCMCIA ports and the drivers necessary to add NSA approved Type I wireless technologies. The SKL-W will support the F-22 Raptor program to assist in the emergency re-key scenario, allowing for a fast and efficient way to complete benign fill transactions.

e. COMPUTER NETWORK SUPPORT: Computer network support provides Defensive Counter Information capability to protect AF computer systems and their information against deliberate or unintentional unauthorized intrusion, corruption, and/or destruction. The Air Force Information Operations Center (AFIOC) is enabling information superiority by providing the world's best Information Operations (IO) capabilities and leaders through analysis, innovation, integration and training. This program contains AFIOC programs and initiatives to protect AF computers, whether they are stand-alone, networked, telephone switches, or embedded in weapon systems, and provide IO threat prediction for AF systems.

(1) Computer Security Assistance Program (CSAP) Countermeasures: The Countermeasures Engineering Team (CMET) provides technical support for CSAP. The team designs, develops, tests and deploys information protection tools, products, and services as countermeasures for use by the CSAP Assessment Teams, as well as AF, DoD, and authorized national agencies. Data collected by the Assessment Teams directly influences development of countermeasure tools and drives the near real-time implementation of countermeasures in the field. FY09 funding procures hardware/software necessary for vulnerability analysis, vulnerability identification, countermeasure development, and testing in an environment simulating the real-world operational environment. To keep pace with technology, new versions of these systems are continuously required. These systems provide daily support to the Air Force Network Operations and Security Center, Air Force Communications Agency, Defense Information Systems Agency, Air Force Office of Special Investigations and other organizations, and are integral to the successful performance of the CMET mission. Annual system revisions are required to remain current with technology. Without the CSAP system, the security of AF networks may be compromised due to inadequate facilities to develop and test new intrusion detection signatures and investigate new technologies and architectures being integrated into AF networks.

f. PUBLIC KEY INFRASTRUCTURE (PKI): PKI provides services to support warfighter requirements. PKI provides the basic framework and services being put in place within DoD to ensure information systems security. It provides the capability to attach digital signatures to electronic documents

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

Description (continued):

for identity and to encrypt and decrypt electronic documents for secure transmission. Public Key-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-repudiation of those transactions. Funding supports several different requirement areas to procure infrastructure equipment for the field in support of On-Line Certificate Status Protocol (OCSP), Deployable/Tactical PKI, SIPRNET PKI, Evolutionary PKI End User Equipment and Combined Communications Electronics Board (CCEB) equipment.

(1) On-Line Certificate Status Protocol (OCSP): No FY09 funding requested.

(2) Deployable/Tactical PKI: FY09 funding procures servers, routers, workstations and associated software to build an extension to the DoD PKI that can support operations in a deployed environment characterized by limited availability of bandwidth, limited logistical support and adverse climatic conditions. FY09 funding provides prototype equipment for product testing and refining concepts of operations. Unless PKI services are extended to the deployed environment, Operating Forces will be denied access to PKI protected information and computer applications provided from fixed locations in-garrison.

(3) SIPRNET PKI: FY09 funding procures servers, repeaters, workstations and associated software needed to establish a parallel PKI on the SIPRNET. FY09 funds also procure NSA certified tokens (hardware storage devices for DoD issued digital identities) for use on the SIPRNET. This capability enables end users to validate the authenticity of information transmitted on the SIPRNET and aids in managing access to classified information based on “need to know.”

(4) Evolutionary PKI End User Equipment: The current Class 3 PKI token (DoD Common Access Card) is undergoing a gradual evolution towards a higher assurance token. Additionally, Homeland Security Presidential Directive 12 (HSPD 12) mandates a common identification card across the Federal Government. Based on the HSPD 12 requirements, the National Institute of Standards and Technology developed Federal Information Processing Standard 201 which adds security requirements to the identification card. While the current CAC meets the going-in requirements, changes will be required to add biometrics and other requirements of FIPS 201 to the identification card. While it is expected that supporting hardware will still be compatible, supporting middleware will require changes that will result in the need to procure a new middleware product. As a result of this, FY09 funds will procure opaque sleeves for contactless CAC cards to scramble potential intrusion attempts or attacks on contactless cards.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMSEC EQUIPMENT									
A. SPACE COMSEC					{$28,728,000}		{$15,600,000}		{$22,584,000}
1. MISSION DATA	A				$17,200,000		$10,000,000		$14,000,000
2. CMD/TLM	A				$10,650,808		$5,600,000		$8,584,000
3. CMD/TLM LOGISTICS	A				$877,192				
B. AIR & GROUND COMSEC					{$24,901,000}		{$32,166,000}		{$52,678,000}
1. KEY GENERATORS	A						$415,385		
2. SECURE TELEPHONES	A				$739,364		$1,018,400		$1,460,500
3. SOFTWARE SYSTEM UPGRADE	A				$193,000				
4. COMSEC ACQUISITION REFORM (CAR)	A				$1,181,306		$530,000		$500,000
5. SUPPORT EQUIPMENT	A				$157,003		$175,000		$200,000
6. SECURE COMMUNICATIONS VOICE/DATA	A				$400,000		$454,285		$22,908,939
7. IN-LINE NETWORK ENCRYPTORS	A				$14,612,520		$15,341,438		$9,967,811
8. EMBEDDED ENCRYPTION DEVICES	A				$255,213		$253,880		$220,000
9. TELEMETRY ENCRYPTION/DECRYPTION DEVICES	A				$412,993		$513,000		$840,750

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
10. LINK ENCRYPTION FAMILY	A				$6,949,600		$13,464,612		$16,580,000
C. CRYPTOGRAPHIC MODERNIZATION					{$48,118,000}		{$56,603,000}		{$44,885,000}
1. KS-60 (KI-22) CRYPTOGRAPHIC MODERNIZATION	A				$47,898,024		$47,090,900		$315,789
2. IDENTIFICATION FRIEND OR FOE (IFF) CRYPTOGRAPHIC MODERNIZATION	A				$219,976		$9,207,225		$27,158,000
3. SPACE CRYPTO	A								$11,393,684
4. COMBAT KEY GENERATOR (CKG)	A								$2,692,632
5. F-22 MULTI-FUNCTION CRYPTO	A						$304,875		
6. RANGE TELEMETRY ENCRYPTION MOD (RTEM)	A								$3,324,895
D. AFEKMS-KMI					{$12,270,000}		{$10,539,000}		{$12,521,000}
1. TECH UPDATES	A				$4,081,504		$4,037,029		$2,759,690
2. TIER 2 NET KEY SERVER (NKS)	A				$300,000		$310,000		
3. KOV-21 CARDS & REFRESH	A				$2,036,925		$1,156,462		$742,500
4. SIMPLE KEY LOADER (SKL) & REFRESH	A				$5,459,482		$3,095,400		$2,078,010
5. PROGRAM SUPPORT (PMA)	A				$55,088		$40,108		$40,000
6. PROTECT CHANNEL	A				$337,000		$1,900,000		$2,000,000

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMSEC EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
7. TACTICAL KEY LOADER (TKL)	A								$1,900,800
8. SIMPLE KEY LOADER - WIRELESS (SKL-W)	A								$3,000,000
E. COMPUTER NETWORK SUPPORT					{$1,846,000}		{$1,988,000}		{$2,093,000}
1. CSAP COUNTERMEASURES	A				$1,846,000		$1,988,000		$2,093,000
F. PUBLIC KEY INFRASTRUCTURE (PKI)					{$4,972,000}		{$1,486,000}		{$3,153,000}
1. OCSP	A				$1,773,001				
2. DEPLOYABLE/TACTICAL PKI	A				$88,030		$563,496		$502,001
3. SIPRNET PKI	A				$3,110,969		$659,015		$2,560,999
4. EVOLUTIONARY PKI END USER EQUIPMENT	A						$263,488		$90,000
TOTALS:					$120,834,998		$118,381,999		$137,913,998

Remarks:

Cost information is in actual dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MODIFICATIONS (COMSEC)

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$689	$1,516	$1,557	$1,593	$1,618	$1,649	$1,682

Description:

The Communications Security (COMSEC) Modification activity ensures the integration, installation and sustainment of cryptographic equipment. This activity is a critical component in providing robust, secure global communications and enabling Information Superiority. It provides the warfighter with the security needed to protect the flow and exchange of operational decision-making information through the retrofit and modification of selected COMSEC equipment. These modification efforts ensure legacy equipment can meet current COMSEC operational environment requirements. The Air Force Communications Agency, located at Scott AFB, IL, programs the funding and the Air Force Electronic Systems Center's Cryptologic Systems Group, located at Lackland AFB, TX, executes funding for modifications to products within the Air and Ground COMSEC and Space COMSEC programs such as:

1. NETWORK ENCRYPTION SYSTEM (Air and Ground): No FY09 funding requested.

2. SPACE COMSEC: FY09 funding provides replacement of critical components to maintain Space COMSEC life cycle requirements. As the obsolescence of parts occurs in the sustainment of the products, modifications must be implemented to keep the products operational for satellite programs. Equipment modifications are being made to the Command/Telemetry family of products in FY09 to enable receipt of key material via Electronic Key Distribution systems and to reduce dependency on physical key material which NSA will no longer support.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MODIFICATIONS (COMSEC)

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MODIFICATIONS (COMSEC)					{$689}		{$1,516}		{$1,557}
NETWORK ENCRYPTION SYSTEMS	A				$203				
SPACE COMSEC	A				$486		$1,516		$1,557
TOTALS:					$689		$1,516		$1,557

Remarks:

Cost information is in thousands of dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE TRAINING EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$5,214	$3,036	$2,671	$4,291	$2,695	$2,760	$2,830

Description:

The Intelligence Training Equipment P-1 line procures equipment for use in initial, intermediate, and advanced training in the General Intelligence and Cryptologic/Signals Intelligence related career fields. The specific training areas this equipment supports are imagery, analysis, indications and warning, fusion, targeting, weaponeering, intelligence, surveillance, and reconnaissance applications, all communications (except communications security) and electronic intelligence, and intelligence systems maintenance training. The major focus of this program is to support functional training on the newest generation of intelligence systems with an emphasis on computer-based training systems through modulation and simulation. This equipment is essential for preparing intelligence personnel to support warfighting commanders. This equipment is located at Goodfellow AFB, TX, where intelligence training is conducted. These systems support intelligence personnel training for all DoD agencies and services.

GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) UPGRADE: The GITA upgrade encompasses consolidation of the unclassified and classified training networks at Goodfellow AFB. All current intelligence training equipment, including Intelligence Training Architecture (ITA) and other legacy intelligence training systems, will be incorporated in GITA. FY09 funds procure infrastructure upgrades such as replacement servers, workstations, switches, and printers for intelligence training systems that support intelligence initial skills and advanced skills training courses. These funds also support the development of the Enterprise Architecture, which consolidates multiple networks and systems into an integrated ITA. FY09 funds also procure replacement hardware for modernizing Interactive Courseware development labs, workstations supporting scenario based exercise training, and servers/equipment needed to meet Advanced Distributed Learning requirements. The growth in the requirement is due to increasing emphasis on operational intelligence training and the need to be able to deploy training on demand to various sites as necessary, rather than students coming to one site for training.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE TRAINING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GITA UPGRADE	A				$5,214		$3,036		$2,671
TOTALS:					$5,214		$3,036		$2,671

Remarks:

Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
INTELLIGENCE TRAINING EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
GITA UPGRADE									
FY2007(1)			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/ WARNER ROBINS, GA	Jul-07	Aug-07		
FY2008(1)			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/ WARNER ROBINS, GA	Jul-08	Aug-08	Yes	
FY2009(1)			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/ WARNER ROBINS, GA	Jul-09	Aug-09	Yes	

Remarks:

(1) Jul 03 basic contract award with four 1-year options and two 3-year options; contract F09603-03-D0095.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE COMMUNICATIONS EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$18,170	$23,976	$15,441	$17,174	$17,055	$26,109	$9,228

Description:

FY2007 funding total includes $16.6M in GWOT supplemental.

Intelligence Communications Equipment efforts procure various types of equipment to analyze and disseminate intelligence, surveillance and reconnaissance information to warfighters and decision makers across the full range of Air Force mission areas.

1. SPACE INNOVATION AND DEVELOPMENT CENTER (SIDC): Develops, evaluates, tests, and integrates space application and utility concepts, as well as new technologies, while providing combat effects to warfighters such as aid in mission planning of GPS-aided/guided munitions. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realize the full potential of existing and planned space capabilities. Two SIDC programs presently utilize procurement funding.

a. Distributed Communications Architecture: This SIDC-operated system provides a network-based communications capability enabling dispersed space personnel to participate in space exercises and wargames and to assist in development, testing, and validation of SIDC innovation projects supporting the Combat Air Forces. It can also support limited command and control capabilities for space operations. FY09 funding upgrades and replaces existing equipment at the SIDC node while incorporating new technology into the system, including computer servers and security features.

b. Space Analysis Center: Air Force Space Command's Space Analysis Center uses modeling and simulation tools to conduct operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Related modeling and simulation tool development is funded in Program Element 0305174F, Space Warfare Center. FY09 funding procures computing equipment supporting analysis capabilities.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE COMMUNICATIONS EQUIPMENT

Description (continued):

2. CHIEF OF STAFF AIR FORCE (CSAF) INNOVATION PROGRAM: In FY08, this program was titled as "Eagle Vision." Eagle Vision is a family of systems that provide commercial imagery data to operational commanders for mission planning, rehearsal, visualization, and intelligence support purposes. Eagle Vision is composed of the Data Acquisition Segment (DAS) and Data Integration Segment (DIS). FY09 funds support procurement of Imagery Ingest Capability Upgrades as well as Eagle Vision DAS and DIS upgrades to support communications that provide improved processing capability, additional satellite capabilities, and baseline upgrades. Prior year funding through various Congressional Adds was previously identified in P-1 Line 29, General Information Technology.

3. AF TACTICAL TERMINALS: The AF Tactical Terminals program provides AF users with Integrated Broadcast Service (IBS) Tactical Terminals for UHF SATCOM and network (e.g. SIPRNET) dissemination of near-real time threat awareness, threat avoidance, and friendly force situation awareness information for combat operations, mission planning, and data base updates. FY09 funds procure hardware for three primary variants of the AF Joint Tactical Terminals: AF Tactical Receive System-Ruggedized (AFTRS-R), AF Joint Tactical Terminals (JTT) and Senior, and AF Tactical Receive System v.2 (AFTRS V2).

4. F-22 PROGRAM: No FY09 funding requested.

5. ANG TACTICAL CRYPTOLOPGIC SUPPORT: No FY09 funding requested.

6. ANG PREDATOR OPERATIONS CENTER: No FY09 funding requested.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
INTELLIGENCE COMMUNICATIONS EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
SPACE INNOVATION AND DEVELOPMENT CENTER							{$1,570}			{$1,290}			{$1,362}
DISTRIBUTED COMMUNICATIONS ARCHITECTURE	A						$1,030			$865			$900
SPACE ANALYSIS CENTER	A						$540			$425			$462
CSAF INNOVATION PROGRAM	A									$6,807			$6,927
AF TACTICAL TERMINALS	A									$13,366			$7,152
F-22 PROGRAM	A									$2,513			
ANG TACTICAL CRYPTOLOGIC SPT	A						$13,700						
ANG PREDATOR OPERATIONS CENTER	A						$2,900						
TOTALS:							$18,170			$23,976			$15,441

Remarks:
Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE COMMUNICATIONS EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
SPACE INNOVATION AND DEVELOPMENT CENTER									
DISTRIBUTED COMMUNICATIONS ARCHITECTURE									
FY2007(1-2)			HQ AFSPC	DO/FP	RSIS/ COLORADO SPRINGS, CO	Mar-07	Jun-07		
FY2008(1-2)			HQ AFSPC	DO/FP	RSIS/ COLORADO SPRINGS, CO	Apr-08	Jun-08	Yes	
FY2009(1)			HQ AFSPC	DO/FP	UNKNOWN	Mar-09	Jun-09	Yes	
SPACE ANALYSIS CENTER									
FY2007(1,3)			HQ AFSPC	OPT/FP	ASI/ COLORADO SPRINGS, CO	Mar-07	Jun-07		
FY2008(1)			HQ AFSPC	C/FP W/OPT	UNKNOWN	Mar-08	Jun-08	Yes	
FY2009(1)			HQ AFSPC	OPT/FP	UNKNOWN	Mar-09	Jun-09	Yes	
CSAF INNOVATION PROGRAM									
FY2008(4)			AFMC/ESC	OPT/FFP	MULTIPLE	May-08	Sep-08	Yes	
FY2009(4)			AFMC/ESC	OPT/FFP	MULTIPLE	May-09	Sep-09	Yes	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE COMMUNICATIONS EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AF TACTICAL TERMINALS									
FY2008(5)			AFC2ISRC	MIPR/IDIQ	ARMY/ DRS-IAS/ DAYTON, OH	Mar-08	Aug-09	Yes	
FY2009(5)			AFC2ISRC	MIPR/IDIQ	ARMY/ DRS-IAS/ DAYTON, OH	Mar-09	Aug-09	Yes	
F-22 PROGRAM									
FY2008(1,6)			AFMC/ASC	OTH/FFP	UNKNOWN	Feb-08	Jul-08	Yes	
ANG TACTICAL CRYPTOLOGIC SPT									
FY2007(1,7)			AFMC/WR-ALC	DO/CPFF	RAYTHEON/ FALLS CHURCH, VA	Mar-07	Mar-09		
ANG PREDATOR OPERATIONS CENTER									
FY2007(8)			ANGRC	C/CPAF	UNKNOWN	Jun-08	Dec-08	Yes	

Remarks:

(1) Quantities and unit costs vary because different types/configurations of equipment being procured.
(2) One-year basic contract with seven option years was awarded in December 2001.
(3) One-year basic contract with two option years was awarded in April 2005.
(4) Prior existing contracts for Eagle Vision with EADS, France and General Dynamics, MI. Base year 2006 with three option years

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** INTELLIGENCE COMMUNICATIONS EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(5) Basic contract awarded to DRS-IAS, Dayton, OH, in 2003 with five option years. Funds are MIPR'ed to the Army to leverage their production contract.
(6) Equipment will be procured through a variety of contracts at basing locations.
(7) IDIQ contract #H94003-04-D-0006 awarded to Raytheon in September 2004.
(8) To be executed by ANG contracting function in applicable state.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR TRAFFIC CONTROL & LANDING SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$7,658	$8,762	$9,832	$17,066	$593	$24,254	$8,618

Description:

FY07 funding total includes $3.3M in GWOT supplemental.

Air Traffic Control and Landing Systems (ATCALS) procures and supports fixed-base and tactical radar, navigational aids, voice communications, and data processing/automation capabilities. ATCALS enables United States Air Force (USAF) air traffic controllers the ability to provide advisory, sequencing, separation, and landing guidance services to all aircraft in USAF-assigned airspace. ATCALS includes operational equipment, training systems for air traffic controllers, and equipment required to interface USAF systems with systems operated by other services, the Federal Aviation Administration (FAA) or host nations. Modern architectures also drive “linchpin” systems in development that embrace space-based technologies and will provide full spectrum support to Global Mobility, Agile Combat Support, Global Strike, Homeland Security, Global Response Concepts of Operation, and net-centric capabilities. ATCALS provide a capability-focused range of en route, terminal air traffic control, and instrument procedures for air and space management. Development funding is in Program Element 0305114F, Air Traffic Control, Approach, and Landing System.

1. AIR TRAFFIC CONTROL OPERATIONS (ATC OPS): ATC operations provide for replacement and modernization of legacy ATC navigation and landing systems, as well as related voice communications, data processing/automation systems, and ancillary equipment. In FY08, a key element of ATC OPS was the Air Force ATCALS Transformation Initiative, which combined organizational realignments, process improvements, and investment in state-of-the-art commercial-off-the-shelf technology to update 20+ year-old fixed and deployable equipment. These investments will result in significant manpower and operations / maintenance savings over the next 20 years.

a. MPN-14K Radar Approach Control (RAPCON): When deployed to austere locations, the MPN-14K Deployable Air Traffic Control and Landing Systems provide up-to-date weather information to the air traffic controllers and pilots. The TMQ-36 currently being used to fulfill this critical mission requirement is no longer sustainable. This program replaces the obsolete TMQ-36 with the TMQ-53 weather pack. FY09 funding will procure 10 systems.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR TRAFFIC CONTROL & LANDING SYSTEM

Description (continued):

b. VHF OMNI RANGE AND TACTICAL NAVIGATION (VORTAC) REPLACEMENT PROGRAM: No FY09 funding requested.

c. AIR TRAFFIC CONTROL RADIO EQUIPMENT: The Air Traffic Control (ATC) ground-to-air Very High Frequency (VHF) and Ultra High Frequency (UHF) radios are 30 years old and are not sustainable for the next 20 years. The AFMC ATC Radio Replacement Program will replace all ATC fixed-base and Major Range and Test Facility Base (MRTFB) ground-to-air radios with state of the art systems that will include remote maintenance capability and provide better operational availability at a significantly reduced operating and support cost. FY09 funding will procure 50 radios.

d. MOBILE TACTICAL AIR NAVIGATION (TACAN): TACAN provides azimuth, station identification, and distance information (relative to the ground TACAN station). The TACAN provides line-of-sight azimuth and distance information for up to 100 aircraft simultaneously. The current mobile TACAN system has reached the end of its normal lifespan, yet it is expected that these systems will be required until 2020. Current systems are manpower intensive and costly to support. New systems will result in a remote maintenance and flight inspection support capability that will reduce manpower requirements and provide a more reliable and supportable system. FY09 funds will procure 11 systems.

2. MOBILE APPROACH CONTROL SYSTEM (MACS): No FY09 funding requested.

a. MACS Prime Mission Equipment: No FY09 funding requested.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR TRAFFIC CONTROL & LANDING SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AIR TRAFFIC CONTROL OPERATIONS							{$7,658}			{$3,791}			{$9,832}
MPN-14K RADAR APPROACH CONTROL (RAPCON)	A												$970
AIR TRAFFIC CONTROL RADIO REPLACEMENT	A						$1,278			$1,032			$1,113
MOBILE TACTICAL AIR NAVIGATION (TACAN)	A						$1,180			$2,759			$7,749
WAKE ISLAND VORTAC	A						$1,900						
MMLS PORTABLE RECEIVERS/TESTERS (1)	A						$3,300						
MOBILE APPROACH CONTROL SYSTEM (MACS)										{$4,971}			
MACS (PRIME MISSION EQUIPMENT)	A									$4,971			
TOTALS:							$7,658			$8,762			$9,832

Remarks:

Total Cost information is in thousands of dollars.

(1) Includes $3.3M FY07 GWOT Supplement for "TRN-45 Mobile Microwave Landing System Antenna".

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR TRAFFIC CONTROL & LANDING SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AIR TRAFFIC CONTROL OPERATIONS(4)									
MPN-14K RADAR APPROACH CONTROL (RAPCON)									
FY2009			AFMC/OO-ALC	C/FFP	UNKNOWN	Feb-09	Aug-09	Yes	
AIR TRAFFIC CONTROL RADIO REPLACEMENT(3)									
FY2007(1,4)			AFMC/OC-ALC	C/FFP W/OPT	SAIC/ SAN DIEGO, CA	Feb-07	Nov-08		
FY2008(1)			AFMC/OC-ALC	OPT/FFP	UNKNOWN	Mar-08	Sep-08	Yes	
FY2009(1)			AFMC/OC-ALC	OPT/FFP	UNKNOWN	Jan-09	Jul-09	Yes	
MOBILE TACTICAL AIR NAVIGATION (TACAN)									
FY2007(2-3)			AFMC/OC-ALC	SS/CPFF	SAIC/ SAN DIEGO, CA	Apr-07	May-09		
FY2008			AFMC/OC-ALC	C/FFP W/OPT	UNKNOWN	May-08	May-09	Yes	
FY2009			AFMC/OC-ALC	OPT/FFP	UNKNOWN	Feb-09	Feb-10	Yes	
MMLS PORTABLE RECEIVERS/TESTERS									

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR TRAFFIC CONTROL & LANDING SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007			AFMC/OC-ALC	SS/FFP	AIR DATA INC/ MONTREAL, CN	Apr-08	Aug-08	Yes	
WAKE ISLAND VORTAC									
FY2007(2)			AFMC/OC-ALC	OPT/CPFF	SAIC/ SAN DIEGO, CA	Sep-07	Dec-08		
MOBILE APPROACH CONTROL SYSTEM (MACS)									
MACS (PRIME MISSION EQUIPMENT)									
FY2008			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/ VAN NUYS, CA	Apr-08	Apr-09	Yes	

Remarks:

(1) Unit costs vary because of different types/configurations of equipment being procured.
(2) Contract was awarded in Feb 06 with one option year.
(3) The Mobile TACAN integrating contractor is SAIC, San Diego, CA. The TACANs were subcontracted to Fernau Avionics Limited, United Kingdom.
(4) Base contract for Air Traffic Control (ATC) Radios awarded to SAIC, San Diego, CA in 2007 with six option years.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NATIONAL AIRSPACE SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$62,212	$50,037	$47,224	$53,819	$48,610	$50,056	$67,757

Description:

FY2007 funding total includes $9M in GWOT supplemental.
FY2008 funding total does not include $4.2M FY2008 GWOT requirements still pending Congressional consideration.

The National Airspace System (NAS) program modernizes the Department of Defense (DoD) Air Traffic Control (ATC) system in conjunction with the Federal Aviation Administration (FAA) modernization effort. NAS increases safety of flight, provides systems and facilities interoperable with FAA modernization, replaces aging DoD ATC systems, provides identical service to military and civilian aircraft, reduces DoD flight cancellations/delays and reduces maintenance. Equipment procured includes site airfield automation systems, radar, voice switches, associated Pre-Planned Product Improvements (P3I), site preparation, installation support, ancillary equipment and supplies, direct production support, periodic security interoperability, flight certification and net-centricity operations. The program maximizes the use of Non-Developmental Items (NDI). Current systems are approaching the end of their planned life cycle and are increasingly more expensive and difficult to repair. As the FAA takes steps to modernize the nation's air traffic control system, the DoD must remain operationally compatible to continue to provide service to military and civilian users who depend on DoD's ATC services. The NAS program is in full rate production.

The Air Force (AF) is the lead service for the Joint NAS program. NAS modernizes 91 DoD sites with a site-unique array of equipment. Some of these sites include major range and test facility bases, which may require procurement of nonstandard communications and automation equipment through separate contracts. Of the 91 DoD sites, 44 constitute AF sites requiring AF procurement funding.

1. DOD ADVANCED AUTOMATION SYSTEM (DAAS): The DAAS is comprised of equipment tailored to support the operation of two types of ATC facilities: Radar Approach Control (RAPCON) and military control tower facilities. DAAS provides digital radar displays, consoles, automation hardware and software to replace those systems approaching the end of their life cycle. DAAS replaces the current generation air traffic control automation system in DoD RAPCONs and Dependent Control Towers. FY09 funds procure and install five DAAS systems.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NATIONAL AIRSPACE SYSTEM

Description (continued):

2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR): The DASR consists of two subsystems: a primary and a secondary surveillance radar. DASR provides aircraft position and other data to controller displays in the RAPCON and at select control tower locations. DASR replaces the DoD current generation of analog ATC surveillance radar. FY09 funds procure and install one DASR.

3. AIRFIELD AUTOMATION SYSTEM (AFAS): No FY09 funds are requested.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
NATIONAL AIRSPACE SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
DOD ADVANCED AUTOMATION SYSTEM							{$15,167}			{$12,357}			{$13,503}
DAAS	A						$15,167			$12,357			$13,503
DIGITAL AIRPORT SURVEILLANCE RADAR							{$44,735}			{$37,680}			{$33,721}
DASR PRIME MISSION EQUIPMENT (1)	A						$21,980			$18,983			$13,142
PROGRAM SUPPORT (2)							$8,121			$5,885			$3,726
SITE ACTIVATION (2)							$14,634			$12,812			$16,853
AIRFIELD AUTOMATION SYSTEM (AFAS)							{$2,310}						
AFAS	A						$2,310						
TOTALS:							$62,212			$50,037			$47,224

Remarks:

Total Cost information is in thousands of dollars.

(1) Includes $9.0M FY07 GWOT Supplement for "RAPCON Upgrades"

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)													DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT													P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM
WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST

(2) DASR schedule drives the deployment of that system.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NATIONAL AIRSPACE SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
DOD ADVANCED AUTOMATION SYSTEM									
DAAS									
FY2007(1-2)			AFMC/ESC	OPT/FFP	RAYTHEON CORP./ MARLBORO, MA	Jan-07	Jan-08		
FY2008(1-2)			AFMC/ESC	OPT/FFP	RAYTHEON CORP./ MARLBORO, MA	Mar-08	Dec-08	Yes	
FY2009(1-2)			AFMC/ESC	OPT/FFP	RAYTHEON CORP./ MARLBORO, MA	Jan-09	Jan-10	Yes	
DIGITAL AIRPORT SURVEILLANCE RADAR									
DASR PRIME MISSION EQUIPMENT									
FY2007(1,3)			AFMC/ESC	DO/FFP	RAYTHEON CORP./ MARLBORO, MA	Nov-06	Jan-09		
FY2008(1,3)			AFMC/ESC	C/FFP	UNKNOWN	Mar-08	Jan-10	Yes	
FY2009(1,3)			AFMC/ESC	DO/FFP	UNKNOWN	Dec-08	Jan-11	Yes	
AIRFIELD AUTOMATION SYSTEM (AFAS)									

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NATIONAL AIRSPACE SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AFAS									
FY2007(1,4)			AFMC/ESC	DO/FFP	MULTIPLE	Dec-06	Jan-07		

Remarks:

(1) System equipment quantity and configurations are tailored to meet specific site requirements. The result is varying unit costs in all systems.
(2) Option to the Federal Aviation Administration (FAA) Standard Terminal Automated Replacement System contract awarded in September 1996 (14 options).
(3) Delivery order to DASR contract awarded in August 1996. The proposal for the follow-on contract is being evaluated with an award target date of Mar 08.
(4) AFAS equipment contractor is Multimax Inc., Laurel, MD using Air Force Network Centric Solutions (NETCENTS) contract. AFAS software contractor is Systems Atlanta, Inc., Woodstock, GA, base year 2005 with options through Aug 07.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER AIR CONTROL SYSTEM IMPROVEMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$92,967	$52,907	$68,502	$116,467	$127,493	$130,584	$131,293

Description:

FY07 funding total includes $14.8M in GWOT Supplemental.

The Theater Air Control System Improvement (TACSI) program acquires state-of-the-art equipment and capabilities essential to the survival and combat effectiveness of tactical-level Battle Management Command and Control (BMC2). Collectively they provide the flexibility, responsiveness, reliability and maintainability necessary for effective BMC2. TACSI provides funding for the procurement of the Battle Control System Fixed (BCS-F), Battle Control System-Mobile (BCS-M) and Mission Planning Systems (MPS). BCS-F supports the NORAD/NORTHCOM homeland defense and air sovereignty mission for fixed Air Defense Sectors. The BCS-M will be a mobile Command and Control (C2) node primarily supporting deployed theater C2 operations outside the continental United States (OCONUS), but may be employed within the continental United States (CONUS) to support the homeland defense mission. The BCS-F and BCS-M systems are collaborating on the development and acquisition of common software and hardware where mission practical. Mission Planning Systems provide unit-level mission planning for pilots and support all current/future aircraft and associated weapons.

1. BATTLE CONTROL SYSTEM-MOBILE (BCS-M): The BCS-M is the next generation low density/high demand (LD/HD) ground-based tactical command and control (C2) node that will support the warfighter with theater air defense, airspace management, aircraft identification, wide-area surveillance and tactical data link management. These are the same missions the current legacy system, the Control and Reporting Center (CRC), is performing on a 24/7/365 schedule in support of deployed theater operations supporting Operations IRAQI FREEDOM and ENDURING FREEDOM, Operation NOBLE EAGLE and other homeland defense activities such as counter-drug activities and special security events.

The acquisition strategy for the BCS-M Program is to replace the CRC's legacy AN/TYQ-23 Modular Control System (mission computer, C2 software, operator workstations and associated shelters) and the AN/TPS-75 radar. To maintain mission operations, a Service Life Extension Project (SLEP) is underway to ensure the AN/TPS-75 radar is serviceable until initial operational capability (IOC) for the replacement radar in FY18. The AN/TPS-75 is the USAF's only mobile ground-based radar and it's an essential tool providing the Joint Forces Air Component Commander (JFACC) with the air track data

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER AIR CONTROL SYSTEM IMPROVEMENT

Description (continued):

necessary to plan, manage and conduct theater air operations. Current legacy systems have reached their technical capacity and are slowing the kill chain as well as increasing the potential for fratricide incidents. BCS-M will provide a much-needed long term persistent air battle management capability; it will also bring new capabilities to the warfighter to include a High Mobility Multipurpose Wheeled Vehicle (HMMWV)-mounted C2 element specifically designed to rapidly respond to tactical situations, including Homeland Defense missions, providing tactical air battle C2 and net-centric battlefield management.

a. BCS-M EVOLUTIONARY UPGRADES: FY09 funding provides activities intended to field a new and more effective C2 capability. Projects within the BCS-M portfolio include, but are not limited to, the AN/TRC-215 Spiral 3 Remote Radio Secure Voice System (RRSVS), the Battle Control Center (BCC) and Radar Replacement. Additionally, the BCS-M Program has leveraged several lateral C2 efforts in support of these projects to include 1st Air Force's Area Cruise Missile Defense/Advanced Capabilities Technology Demonstration (ACMD/ACTD), E-3 Airborne Warning and Control System (AWACS) 40/45, BCS-F software development and the Radar Replacement project. The BCS-M Program provides a C2 product that more effectively meets the C2 requirements of the warfighter and supports the Joint Force Air Component Commanders (JFACC's) ability to conduct theater-wide air battle management. Development funding for this program is in Program Element 0207412F, Modular Control System.

b. CRC IMPROVEMENTS: FY09 funding provides reliability and maintainability improvements to the legacy AN/TYQ-23 Operations Module, the AN/TPS-75 Radar and peripheral equipment and embedded subsystems. Projects within the CRC Improvements portfolio include, but are not limited to, the AN/TRC-215 Spiral 1 and 2 Remote Radio Secure Voice System (RRSVS), the AN/TPK-1 Non-Organic Radar Access (NORA), the AN/TYQ-23 (V5) Operator Console Unit (OCU) Replacement, the Radar SLEP, the Radar Shelter Replacement/Refurbishment and the AN/TSC-147 Joint Tactical Information Distribution System (JTIDS) Module (JM).

c. INTERIM CONTRACTOR SUPPORT (ICS): FY09 funding provides ICS associated with the fielding of BCS-M Evolutionary Upgrades. Contractor support will provide temporary material and asset logistics support to BCS-M systems, sub-systems, and support equipment.

d. PROGRAM SUPPORT: FY09 funding provides program/engineering support for BCS-M.

2. BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is the Region Air Operations Center-Air Defense Sector (RAOC-ADS) for the Atmospheric Early Warning System. BCS-F is a bi-national cooperative program with Canada. The BCS-F program provides a modernized battle management C2 system with enhanced capability to integrate data from existing and future civil and military defense surveillance systems to include but not limited to the National

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Description (continued):

Capital Region - Integrated Air Defense System (NCR-IADS) into a comprehensive recognized air picture in support of operation NOBLE EAGLE and other homeland defense activities. This integrated air picture will enhance North American Aerospace Defense/Combatant Commander capability to conduct peacetime air sovereignty operations and transition to active air defense operations in the event of aggression toward the North American Continent. BCS-F systems serve as Air Force Homeland Defense battle management C2 hubs and integrators for data from radar sensors, data links and supporting communications architecture. Provides for technical refresh and other procurement activities. Provides the tactical communications and data link capabilities with other military and civil systems responsible for planning, directing, coordinating and controlling forces for air surveillance, air defense and control of sovereign US air space (including the National Capital Region).

a. BCS-F EVOLUTIONARY UPGRADES: Funding provides for BCS-F activities which include, but are not limited to, operational replacement of legacy battle management RAOC-ADS, Common Battle Management Software and hardware, leveraging capabilities from Area Cruise Missile Defense Advanced Capabilities Technology Demonstration, leveraging capabilities from BCS-M. Provides for technical refresh, hardware, software and spares for BCS-F and NCR-IADS. Developmental funding for these programs are in Program Element 0102326F.

b. INTERIM CONTRACTOR SUPPORT (ICS): Funding provides Interim Contractor Support to ensure system operability at the operational BCS-F sectors, including hardware and software support, configuration control, asset management, and on-sight technical support for the fielded systems, sub-systems and support equipment.

c. PROGRAM SUPPORT: Funding for program office, engineering and other contractor support for BCS-F.

3. MISSION PLANNING SYSTEMS: This program provides a suite of mission planning systems that can be integrated with USAF C4I systems for the operational management of Combat Air Force (CAF) and Mobility Air Force (MAF) aerial assets and the support of USAF training requirements. Mission Planning Systems allow aircrews to electronically receive tasking orders, intelligence information, target coordinates, imagery and other information. This information is then used to organize and prepare flight (including cargo airdrop) and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predications, and navigation databases) that is electronically transferred to aircraft and weapons. Mission Planning Systems increases the combat effectiveness of Air Force aerial assets (including unmanned air vehicles, conventional and low-observable aircraft, and weapons) by supporting the use of sophisticated avionics and precision/autonomous guided munitions. It ultimately helps to increase wartime sortie rates, improve aircrew and aircraft survivability and improve aircrew readiness. The program procures UNIX and PC-based mission planning computers, which provide a flexible, configurable,

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Description (continued):

and cost effective solution for increasing tactical and strategic capabilities to meet the continuum of operations ranging from peacetime contingencies to conventional and nuclear wartime mission planning requirements. The program has shifted its hardware emphasis from a small number of large, complex planning systems to a larger number of smaller, more personal, planning devices tailored to user needs. This adjustment was made for the following technology-driven reasons: the evolutionary nature of mission planning requires hardware changes to meet overall system requirements; advances in commercial-off-the-shelf (COTS) technology make available new capabilities which may lower component costs or address component obsolescence; and changes in number, type, and deployment of aircraft/weapons require changes in the number of UNIX and PC-based mission planning computers and their concept of operation. A variety of information technology, navigation and communications hardware and software packages will be procured each year to meet the varied needs of USAF CAF, MAF and training units. Market surveys and analysis of COTS products will be used to support procurement decisions. Development funding for the program is in Program Element (PE) 0208006F.

a. UNIX-BASED MISSION PLANNING COMPUTER (UMPC): UMPC consists of a transportable, network-capable system interfaced with Mission Planning Systems Unix software to provide basic mission planning capability as well as mission planning for precision/autonomous guided munitions, large data storage, and full interoperability with TBM systems. Additionally, color printers are included with the system to allow the user to produce charts and other mission-specific products. FY09 funding will procure these systems, associated hardware, warranties, data transfer devices, and software licenses.

b. PC-BASED MISSION PLANNING COMPUTER (PMPC): PMPC takes advantage of the rapid increase in PC-based technology to enable mainframe type computing on increasingly smaller and more mission-oriented devices, to include, but not limited to, desktop computers, laptops, knee boards, data transfer devices, interface devices and associated software applications, Personal Digital Assistants, and tablet PCs. PMPC consists of a portable, tailorable, network-capable system integrated with Mission Planning System Portable Flight Planning Software and/or Joint Mission Planning System software to provide basic mission planning capability, large data storage, and full interoperability with TBM systems. PMPCs can be networked with UMPCs to further tailor a platform's mission planning environment. Additionally, color printers are included with the system to allow the user to produce charts and other mission-specific products. FY09 funding will procure these systems, associated hardware, warranties, data transfer devices, and software licenses.

c. PRECISION AERIAL DELIVERY SYSTEM: The Joint Precision Airdrop System (JPADS) is a collaborative effort with the Army, USMC and other agencies to provide the capability for direct delivery of cargo and equipment through high altitude precision airdrops. It will provide aviators the ability to accurately airdrop payloads (including supplies/equipment as well as personnel) to units in the field from altitudes beyond the reach of most surface-to-air weaponry. FY09 funding will continue procuring precision aerial delivery kits which will include, but are not limited to, Pressure Tolerant Disk Drives

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Description (continued):

(PTDD) [including solid state and pressure sealed disk drives]; software, GPS devices (including GPS re-transmission Subsystems (GPS-RTS) and related devices for moving map displays), portable data storage units, dropsondes and UHF dropsonde receive sub-systems, precision-guided airdrop training systems (including pallets and steerable canopies), engineering and technical support, and associated hardware warranties and software licenses.

d. PROGRAM/ENGINEERING SUPPORT: FY09 funding provides program/engineering/hardware support for Mission Planning Systems.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

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OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
THEATER AIR CONTROL SYSTEM IMPROVEMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
BATTLE CONTROL SYSTEM MOBILE (BCS-M)							{$38,271}			{$24,881}			{$31,282}
BCS-M EVOLUTIONARY UPGRADES	A						$27,341			$17,300			$16,185
CRC IMPROVEMENTS	A						$707			$4,005			$11,520
INTERIM CONTRACTOR SUPPORT (ICS)							$723			$1,399			$1,376
PROGRAM SUPPORT							$1,300			$2,177			$2,201
CENTAF BCS-M/BCC-CENTAF (1)	A						$8,200						
BATTLE CONTROL SYSTEM FIXED (BCS-F)							{$25,841}			{$11,156}			{$12,318}
BCS-F EVOLUTIONARY UPGRADES	A						$17,220			$1,365			$3,099
INTERIM CONTRACTOR SUPPORT (ICS)							$7,833			$8,627			$8,170
PROGRAM SUPPORT							$787			$1,164			$1,049
MISSION PLANNING SYSTEMS							{$28,855}			{$16,870}			{$24,902}
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)	A						$4,859			$3,908			$4,029
PC-BASED MISSION PLANNING COMPUTER (PMPC)	A						$10,573			$9,220			$9,453
PRECISION AERIAL DELIVERY SYSTEM (PADS) (2)	A						$12,600			$2,890			$10,448

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER AIR CONTROL SYSTEM IMPROVEMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
PROGRAM SUPPORT							$823			$852			$972
TOTALS:							$92,967			$52,907			$68,502

Remarks:

Total Cost information is in thousands of dollars.

(1) FY07 funding includes $8.2M GWOT Supplemental for "Battle Control Center-CENTAF"
(2) FY07 funding includes $6.6M GWOT Supplement for "Joint Precision Airdrop System".

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER AIR CONTROL SYSTEM IMPROVEMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
BATTLE CONTROL SYSTEM MOBILE (BCS-M)									
BCS-M EVOLUTIONARY UPGRADES									
FY2007(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Nov-06	Sep-07		
FY2008(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Dec-07	Nov-08		
FY2009(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Dec-08	Nov-09	Yes	
CRC IMPROVEMENTS									
FY2007(1-2)			AFMC/OO-ALC	C/CPIF	MULTIPLE	Dec-06	Sep-07		
FY2008(2)			AFMC/OO-ALC	C/CPIF	UNKNOWN	Mar-08	Sep-08	Yes	
FY2009(2)			AFMC/OO-ALC	OPT/CPIF	UNKNOWN	Dec-08	Sep-09	Yes	
CENTAF BCS-M/BCC-CENTAF									
FY2007(2)			HQ ACC	SS/CPIF	MULTIPLE	Apr-07	Sep-08		
BATTLE CONTROL SYSTEM FIXED (BCS-F)									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
BCS-F EVOLUTIONARY UPGRADES									
FY2007(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	Nov-06	Sep-07		
FY2008(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	Nov-07	Sep-08		
FY2009(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	Oct-08	Sep-09	Yes	
MISSION PLANNING SYSTEMS(1,3)									
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)(1,3)									
FY2007(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07		
FY2008(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-07	Feb-08		
FY2009(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
PC-BASED MISSION PLANNING COMPUTER (PMPC)									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07		
FY2008(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-07	Mar-08		
FY2009(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
PRECISION AERIAL DELIVERY SYSTEM (PADS)									
FY2007(1,3)			AFMC/ESC	C/FFP	MULTIPLE	Nov-06	May-07		
FY2008(1,3)			AFMC/ESC	C/FFP	MULTIPLE	Nov-07	May-08		
FY2009(1,3)			AFMC/ESC	C/FFP	UNKNOWN	Nov-08	May-09	Yes	

Remarks:

(1) Quantity and unit cost vary because different types/configurations of equipment are being procured or equipment procured is site specific.
(2) Various contract methods and types will be utilized. Examples of contractors include Northrop Grumman, Agoura Hills, CA; Northrop Grumman, Baltimore, MD; Raytheon, Fullerton, CA; Naval Air Warfare Center, Patuxent River, St Inigoes, MD; etc. Award/delivery dates reflect date of first award and delivery.
(3) Mission Planning Systems components are procured as commercial-off-the shelf equipment available through various contract sources, e.g., GSA schedules, IDIQ contracts, blanket purchase agreements. Examples of contractors include Dell Corporation, Austin, TX; Rugged Portable System (RPS), Santa Ana, CA; Planning Systems, INC (PSI), Reston, VA; and Government Technology Services, INC (GTSI), Chantilly, VA. Award/delivery dates reflect date of first award and delivery.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** WEATHER OBSERVATION FORECAST

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$31,728	$23,456	$29,377	$22,292	$26,334	$23,731	$22,704

Description:

FY2007 funding total includes $2.433M in GWOT supplemental.

Acquires meteorological and space environmental equipment supporting the global missions of the Air Force (AF), Army, Special Operations Forces (SOF), combatant commands, and other government agencies. Fixed and transportable equipment provides observing and forecasting capabilities for home station and deployed locations in support of worldwide Air and Space Expeditionary Forces and Army forces. Weather system technological upgrades provide critical support to modern air combat operations. These systems enhance the effectiveness of Air Force weapons systems and precision munitions by accurately predicting environmental impacts to optimize targeting and bomb damage assessment.

Air Force Weather (AFW) programs are aligned under five core capabilities: 1) Weather Data Collection, 2) Product Tailoring/Warfighter Applications, 3) Weather Data Analysis, 4) Weather Forecasting, and 5) Weather Data Dissemination. Through this alignment, AFW ensures an integrated and systems oriented approach to program management decisions. The development funding for Weather Observation/Forecast is in PE 0305111F, Weather Service.

1. WEATHER DATA COLLECTION: This program acquires equipment capable of combining terrestrial and space weather sensor data into integrated meteorological sensing and instrumentation information for battlefield and home-base operations.

a. OBSERVING SYSTEM 21ST CENTURY (OS-21): This component of Weather Data Collection replaces equipment approaching 20 years old with state-of-the-art Commercial-off-the-Shelf (COTS) weather observing/sensor equipment. OS-21 includes five different configurations: fixed, deployable, remote, manual, and upper-air. FY09 funding procures fixed and deployable capabilities.

b. NEXT GENERATION IONOSONDE (NEXION) REPLACEMENT: Provides vertical incidence measurements of the ionosphere from multiple worldwide locations. Measurements are used as model inputs for space weather forecast products supporting warfighter operations. FY09 funding

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** WEATHER OBSERVATION FORECAST

Description (continued):

procures COTS equipment.

c. PORTABLE DOPPLER RADAR: Supports combat forces at deployed locations worldwide with timely and accurate information on thunderstorms, precipitation areas and intensities, and wind direction and velocity. Radar data provides environmental situational awareness critical for mission planning and execution and safety of flight. FY09 funding procures COTS Doppler radar systems.

2. PRODUCT TAILORING/WARFIGHTER APPLICATIONS: This program provides decision-quality weather impacts information to warfighters at theater and tactical levels. At the theater level, Operational Weather Squadrons (OWSs) support commanders with timely, focused, fine-scale weather products and services. At the tactical level, Weather Flights (WFs) and Detachments (Dets) provide front-line AF and Army commanders target-scale weather information in direct support of combat operations. WFs and Dets operate at both home station and deployed locations. FY09 funding procures integrated computer hardware and software suites and associated communications interfaces for operational weather support at fixed and deployed AF and Army locations in the continental United States and overseas.

3. WEATHER DATA ANALYSIS: This program provides atmospheric data analysis capabilities within the AFW Strategic Center to generate products required by regional OWSs and WFs in support of worldwide AF and Army customers. This program acquires and implements weather data interfaces for command and control and mission planning systems. Customers for these products include DoD and Department of Commerce agencies and the national intelligence community. FY09 funding procures computer hardware and associated integration software for database expansion and net-centric dissemination of weather data. Modernization of information technology infrastructure needed to support integration of data from next generation of environmental sensing satellites.

4. WEATHER FORECASTING: This program provides cloud forecast models and other environmental forecast products for worldwide AF, Army, SOF, and national intelligence community operational support. FY09 funding procures computer servers, processors, and high-capacity storage devices to support advanced scientific numerical weather modeling, and will provide a more robust infrastructure that will enable exploitation of environmental data records from new satellite sources and improve worldwide forecast capability.

5. WEATHER DATA DISSEMINATION: This program transitions dissemination capabilities to a net-centric interface for the timely, reliable transmission of weather data and products to intermediate and end users. The advanced interface and delivery method ensures data integrity and continuity of service.

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Description (continued):

Weather data dissemination formats and transmission protocols also support the DoD Infostructure Technical Reference Model objectives for integration into warfighter command and control, mission planning, and rehearsal systems. FY09 funding procures COTS computer hardware and software and associated communications equipment.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
WEATHER DATA COLLECTION (2)							{$14,884}			{$6,797}			{$10,500}
OS-21							{$13,428}			{$1,900}			{$2,400}
PRIME MISSION EQUIPMENT	A						$9,845						
PRIME MISSION EQUIPMENT (1)	A						$1,300			$1,400			$1,400
PROGRAM SUPPORT							$2,283			$500			$1,000
NEXT GENERATION IONOSONDE (NEXION) REPLACEMENT										{$3,000}			{$4,500}
PRIME MISSION EQUIPMENT	A									$3,000			$4,500
PORTABLE DOPPLER RADAR							{$1,456}			{$1,897}			{$3,600}
PRIME MISSION EQUIPMENT	A									$890			$3,000
PRIME MISSION EQUIPMENT (2)	A						$1,456						
PROGRAM SUPPORT										$1,007			$600
PRODUCT TAILORING/WARFIGHTER APPLICATIONS							{$3,246}			{$3,900}			{$2,700}
PRIME MISSION EQUIPMENT	A						$2,196			$2,549			$2,295
PROGRAM SUPPORT							$1,050			$1,351			$405

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
WEATHER DATA ANALYSIS							{$3,286}			{$4,838}			{$4,646}
PRIME MISSION EQUIPMENT	A						$3,286			$4,838			$2,170
PRIME MISSION EQUIPMENT	A												$1,786
PROGRAM SUPPORT													$690
WEATHER FORECASTING							{$435}			{$3,029}			{$3,617}
PRIME MISSION EQUIPMENT	A						$435			$3,029			$3,617
WEATHER DATA DISSEMINATION							{$9,877}			{$4,892}			{$7,914}
PRIME MISSION EQUIPMENT	A						$6,589			$2,350			$4,968
PRIME MISSION EQUIPMENT	A						$2,636			$1,769			$2,506
PROGRAM SUPPORT							$652			$773			$440
TOTALS:							$31,728			$23,456			$29,377

Remarks:

Total Cost information is in thousands of dollars.

(1) FY07 funding includes $1.3M GWOT Supplement for Tactical Meteorological Observing Systems "Prime Mission Equipment"
(2) FY07 funding includes $1.0M GWOT Supplement for Portable Doppler Radar "Prime Mission Equipment"

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P-1 NOMENCLATURE:
WEATHER OBSERVATION FORECAST

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
WEATHER DATA COLLECTION									
OS-21									
PRIME MISSION EQUIPMENT									
FY2007(1-2)			AFMC/ESC	C/FFP	VAISALA, INC./ WOBURN, MA	Sep-07	Nov-07		
FY2007(1,3)			AFMC/OO-ALC	OPT/FFP	RAYTHEON TECHNICAL SERVICES/ INDIANAPOLIS, IN	Aug-07	Jan-08		
FY2008(1,3)			AFMC/OO-ALC	OPT/FFP	RAYTHEON TECHNICAL SERVICES/ INDIANAPOLIS, IN	Jan-08	Mar-08		
FY2009(1)			AFMC/OO-ALC	C/FFP	UNKNOWN	Feb-09	Apr-09	Yes	
NEXT GENERATION IONOSONDE (NEXION) REPLACEMENT									
PRIME MISSION EQUIPMENT									
FY2008(1,4)			AFSPC/SMC	SS/OTH	UNKNOWN	Mar-08	May-08	Yes	
FY2009(1,4)			AFSPC/SMC	OPT/OTH	UNKNOWN	Dec-08	Jun-09	Yes	
PORTABLE DOPPLER RADAR									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
PRIME MISSION EQUIPMENT									
FY2007(1,5)			HQ AFSOC	C/FFP	LAPOINT-BLASE INDUSTRIES/ ST. LOUIS, MO	Sep-07	Nov-07		
FY2008(1)			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Apr-08	Jun-08	Yes	
FY2009(1,6)			AFMC/ESC	OPT/FFP	UNKNOWN	Dec-08	Jun-09	Yes	
PRODUCT TAILORING/WARFIGHTER APPLICATIONS									
PRIME MISSION EQUIPMENT									
FY2007(1,7)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/ BELLEVUE, NE	Aug-07	Nov-07		
FY2008(1,7)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/ BELLEVUE, NE	Apr-08	Jun-08	Yes	
FY2009(1,7)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/ BELLEVUE, NE	Jun-09	Nov-09	Yes	
WEATHER DATA ANALYSIS									

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P-1 NOMENCLATURE:
WEATHER OBSERVATION FORECAST

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
PRIME MISSION EQUIPMENT									
FY2007(1,8)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/ BELLEVUE, NE	Jun-07	Aug-07		
FY2008(1,8)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/ BELLEVUE, NE	Mar-08	Aug-08	Yes	
FY2009(1)			HQ AFWA	OPT/CPAF	UNKNOWN	Mar-09	Aug-09	Yes	
FY2009(1,9)			AFMC/ESC	MIPR/CPFF	ARMY/ UNKNOWN	Mar-09	Aug-09	Yes	
WEATHER FORECASTING									
PRIME MISSION EQUIPMENT									
FY2007(1,8)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/ BELLEVUE, NE	Jun-07	Aug-07		
FY2008(1,8)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/ BELLEVUE, NE	Jan-08	Apr-08		
FY2009(1)			HQ AFWA	C/CPAF	UNKNOWN	Dec-08	Apr-09	Yes	
WEATHER DATA DISSEMINATION									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
WEATHER OBSERVATION FORECAST

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
PRIME MISSION EQUIPMENT									
FY2007(1,10)			HQ AFWA	C/FP	MULTIPLE	Apr-07	Jul-07		
FY2007(1,11)			AFMC/ESC	C/OTH	MULTIPLE	Jul-07	Sep-07		
FY2008(1,10)			HQ AFWA	C/FP	MULTIPLE	Dec-07	Jan-08		
FY2008(1,11)			AFMC/ESC	OPT/FP	MULTIPLE	Oct-07	Nov-07		
FY2009(1,10)			HQ AFWA	C/FP	UNKNOWN	Mar-09	Jul-09	Yes	
FY2009(1,11)			AFMC/ESC	C/FP	UNKNOWN	Dec-08	Jun-09	Yes	

Remarks:

(1) Quantity and unit cost vary due to site-specific configurations.
(2) Fixed-base systems procured through a GSA Blanket Purchase Agreement to Vaisala, Inc., Woburn, MA.
(3) Deployable systems contract awarded to Raytheon Technical Services, Indianapolis, IN, Dec 05 with two option years. FY2007 funding provided for GWOT requirements.
(4) Sole Source Time & Materials (T&M) contract with option year, contractor TBD.
(5) FY2007 funding provided for GWOT requirements.
(6) Will be first option year to the C/FFP contract, contractor TBD, awarded the previous year.
(7) Basic contract awarded to Raytheon Information & Intelligence system, Bellevue, NE, Mar 06, with five option years.
(8) 55th Contracting Squadron, Offutt AFB, NE, serves as PCO for HQ AFWA to acquire data capabilities from next generation satellites through Systems Engineering Management & Sustainment contract, C/CPAF, Northrop Grumman Space & Mission Systems, Bellevue, NE, basic contract awarded Sep 02, with a 2003 base year and four option years. FY2008 funding executed on a 6-month contract extension approved by Program Executive Officer.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: WEATHER OBSERVATION FORECAST

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(9) MIPR to Defense MicroElectronics Activity (DMEA), McClellan Park, CA, to acquire capabilities. In FY2009 DMEA will review vendors available on pre-competed contract vehicles and award new task order to selected vendor.
(10) 55th Contracting Squadron, Offutt AFB, NE, serves as PCO for HQ AFWA to acquire dissemination capability within the AF Weather Strategic Center. Various contracts are available through the following vendors: Foundry Networks, San Jose, CA; F5 Networks, Seattle, WA; Northrop Grumman Space & Mission Systems, Bellevue, NE; Cisco Systems, San Jose, CA; and Hewlett-Packard, Gaithersburg, MD. Multiple award and delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery. Vendors in FY09 TBD.
(11) Contract awarded to NCI Information Systems, Inc., Reston, VA, in Sep 07 with one option year. Sole source contract with Raytheon Information & Intelligence Systems, Bellevue, NE, using a GSA FP contract awarded Sep 07 with one option year. Vendor in FY09 TBD.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** STRATEGIC COMMAND AND CONTROL

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$26,967	$40,937	$53,739	$35,625	$26,163	$26,675	$27,202

Description:

FY2008 funding totals do not include $4.2M in FY2008 GWOT requirements still pending Congressional consideration.

The Strategic Command and Control (C2) program procures mission-critical communications and computer systems required to ensure the United States has the capability for effective C2 of the Twin Triad (nuclear and conventional). It procures hardware replacements/upgrades to maintain the only computer systems that produce the Nation's nuclear war plan and performs conventional/contingency war planning. Also, the program supports life-cycle replacement of outdated and unreliable communications equipment in support of the B-2 program.

1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is the single, survivable National C2 automated information system (AIS) supporting the President, Secretary of Defense, Joint Staff, and nuclear Combatant Commanders in the transition/post phases of nuclear conflict. The requirement includes NPES integration with fixed command center and mobile platforms. The program is a joint program and the Air Force is the lead service. FY09 funding supports the integration of the new communication interface and equipment upgrade at all operational sites. Funding supports fixed sites and mobile platforms.

2. C2 MODERNIZATION: USSTRATCOM and Air Force Space Command (AFSPC) C2 Modernization programs provide the infrastructure and hardware to acquire, process and deliver information, as needed, to enhance decision making.

a. USSTRATCOM C2 MODERNIZATION: This employs a set of underlying information services, technologies, and tools that enable the Commander of USSTRATCOM to achieve the broad operational warfighting capabilities described in the C2 Modernization Operational Requirements Document, Joint Vision 2020 and further dictated by Unified Command Plans (UCP) 1 and 2. USSTRATCOM's C2 Modernization program is a spiral development effort visualized as a collection of distributed databases and applications, integrated through a grid of supporting services. FY09 funding supports life-cycle upgrades to the hardware and software in the Software Integration Laboratory (SIL), Command Center Upgrade (CCU), and the

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** STRATEGIC COMMAND AND CONTROL

Description (continued):

Commander's Situation Room. This life-cycle upgrade includes C2 Enterprise Database servers, C2 application servers Global Operation Center display equipment, clients and servers, Red Switch upgrade, and procuring guards for multi-national SKIWeb.

b. AFSPC C2 MODERNIZATION: No FY09 funding requested.

3. INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN): The mission of USSTRATCOM is to establish and provide full-spectrum global strike, and coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives. USSTRATCOM will also provide operational space support, integrated missile defense, global command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. ISPAN enables USSTRATCOM to carry out these missions. It is one of DoD's most complex classified computer systems and the only national force level planning system. Its infrastructure capabilities develop, verify, and produce Operational Plan (OPLAN) 8044 and Contingency Plan (CONPLAN) 8022, Theater Support Planning Documents. The system performs tasks ranging from creating and running Course of Action (COAs) to threat scenarios to providing data for developing bomber aircraft crew strike mission data in digital and hard copy formats. It includes automated data processing equipment (ADPE), software, training, associated deployable and distributed data processing nodes, and subsidiary systems. It uses a four-year life-cycle refresh plan to procure required servers, storage devices, workstations, peripherals and other network components. This life-cycle refresh plan follows industry standards and eliminates the peaks and valleys associated with maintaining compatibility with the fast moving Commercial Off-The-Shelf (COTS) hardware technology improvement cycle. It also allows the program to better utilize existing manpower to install and configure the refreshment hardware to provide an incremental and efficient refresh of critical infrastructure components as they become obsolete. Development funding for this program is in Program Element 0101313F.

FY09 funding continues the life-cycle procurement of application servers, storage area network (SAN), high availability storage arrays, and backup and recovery systems and other system components. It also supports the life-cycle workstation (UNIX platform) refresh project, provides for the life-cycle refresh of Government Furnished Equipment (GFE) at development contractor sites, and the procurement of equipment to support ISPAN strategic modernization efforts. This includes workstations, servers, storage devices, networking infrastructure and other peripherals.

4. B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability.

a. ENGINEERING DATA SYSTEMS (EDS): EDS provides engineers with specialized computers for on-line access to B-2 aircraft data. This

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** STRATEGIC COMMAND AND CONTROL

Description (continued):

data consists of items such as engineering analysis, manufacturing data, aircraft design, and software documentation to help solve technical issues on B-2 aircraft in the field. Locations with EDS computers include: Whiteman AFB, MO; Oklahoma City Air Logistics Center, Tinker AFB, OK; and Northrop Grumman Corp, CA. FY09 funds continue procurement and installation of the backbone infrastructure hardware and software required to conduct communications in the B-2 community, manage and distribute B-2 technical data (drawings, engineering data, etc), and buy COTS products to integrate with existing systems. This includes data link infrastructure.

b. WEAPON SYSTEM SUPPORT CENTER (WSSC): The WSSC, located at Oklahoma Air Logistics Center, Tinker AFB, OK, provides software support and software maintenance for B-2 aircraft. Software maintenance fixes to aircraft systems include flight controls, flight management, navigation systems, weapons, and the defensive management system. These software maintenance fixes will be accomplished and tested with the use of the WSSC Software Development System (SDS) and integration and test computer laboratory complex by analyzing and designing fixes to existing aircraft software. FY09 funding continues the replacement of obsolete computer systems and enhancements to existing computer equipment including, computer hardware, terminals, printers, disk and tape drives, workstations, commercial software at existing subcontractor software laboratories relocated as part of the long-term software support effort. Unique B-2 security and communication infrastructure needs are also included.

5. DISTRIBUTIVE COMMAND AND CONTROL NODES (DC2N): The Combatant Commander's DC2N program provides contingency reconstitution and continuity of national command capabilities to accomplish directed Combatant Commander missions in the event primary command and control (C2) facilities are incapacitated. FY09 funding will procure systems to include: COTS backbone network components; satellite, line-of-sight and terrestrial communications systems; message distribution system components; battle staff work station components; and High Altitude Electromagnetic Pulse (HEMP) protection. Replacement components and spare parts will ensure COTS products remain fully mission capable and technologically current (within the manufacturers life cycle). FY09 funds life cycle upgrades to ensure interoperability and reliability in the larger command and control architecture. FY09 will also procure the maritime nodes and NC2 backup servers.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** STRATEGIC COMMAND AND CONTROL

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STRATEGIC COMMAND AND CONTROL									
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	A				$1,480		$6,620		$3,000
USSTRATCOM C2 MODERNIZATION	A				$4,393		$4,157		$9,043
AFSPC C2 MODERNIZATION	A				$3,062				
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)	A				$9,977		$9,861		$13,144
B-2 SUPPORT					{$8,055}		{$4,204}		{$4,359}
ENGINEERING DATA SYSTEMS (EDS)	A				$3,231		$2,350		$2,406
WEAPON SYSTEM SUPPORT CENTER (WSSC)	A				$4,824		$1,854		$1,953
DISTRIBUTIVE COMMAND AND CONTROL NODES (DC2N)	A						$16,095		$24,193
TOTALS:					$26,967		$40,937		$53,739

Remarks:

Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)									DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL				
ITEM NAME/ FISCAL YEAR	**QTY.**	**UNIT COST**	**LOCATION OF PCO**	**CONTRACT METHOD & TYPE**	**CONTRACTOR AND LOCATION**	**AWD. DATE**	**DATE FIRST DEL.**	**SPECS AVAIL NOW**	**DATE REV. AVAIL**
STRATEGIC COMMAND AND CONTROL									
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)									
FY2007(1-3)			USSTRATCOM	C/FP	MULTIPLE	May-07	Jun-07		
FY2008(1)			USSTRATCOM	C/FP	UNKNOWN	Mar-08	May-08	Yes	
FY2009(1)			USSTRATCOM	C/FP	UNKNOWN	Mar-09	May-09	Yes	
USSTRATCOM C2 MODERNIZATION									
FY2007(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Feb-07	May-07		
FY2008(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Mar-08	May-08	Yes	
FY2009(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Mar-09	May-09	Yes	
AFSPC C2 MODERNIZATION									
FY2007(1-2,5)			AFSPC/SMC	SS/CPAF	MULTIPLE	Mar-07	Jun-07		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** STRATEGIC COMMAND AND CONTROL

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)									
FY2007(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Nov-06	Feb-07		
FY2008(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Dec-07	Feb-08		
FY2009(1,4)			USSTRATCOM	OPT/FFP	COMPUTER SCIENCE CORPORATION/ FALLS CHURCH, VA	Dec-08	Feb-09	Yes	
B-2 SUPPORT									
ENGINEERING DATA SYSTEMS (EDS)									
FY2007(1,6)			AFMC/OC-ALC	MIPR/C/CPFF	MULTIPLE	Mar-07	Apr-07		
FY2008(1,6)			AFMC/OC-ALC	MIPR/C/CPFF	UNKNOWN	Mar-08	Apr-08	Yes	
FY2009(1,6)			AFMC/OC-ALC	MIPR/C/CPFF	UNKNOWN	Mar-09	Apr-09	Yes	
WEAPON SYSTEM SUPPORT CENTER (WSSC)									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1,6)			AFMC/OC-ALC	DO/CPFF	NORTHORP GRUMMAN/ PALMDALE, CA	Mar-07	Apr-07		
FY2008(1,6)			AFMC/OC-ALC	DO/CPFF	NORTHORP GRUMMAN/ PALMDALE, CA	Mar-08	Apr-08	Yes	
FY2009(1,6)			AFMC/OC-ALC	DO/CPFF	NORTHORP GRUMMAN/ PALMDALE, CA	Mar-09	Apr-09	Yes	
DISTRIBUTIVE COMMAND AND CONTROL NODES (DC2N)									
FY2008(1-2,7)			USSTRATCOM	C/FFP	UNKNOWN	Feb-08	Apr-08	Yes	
FY2009(1)			USSTRATCOM	C/FFP	UNKNOWN	Feb-09	Apr-09	Yes	

Remarks:

(1) Varying unit costs and quantities due to various types of equipment being procured.
(2) .Award/delivery dates reflect the date of first contract award and delivery.
(3) NPES contracts: Contract FA8771-04-D-0004 D.O. 6U01 was awarded July 06 to Northrop Grumman, and contract F25600-02-D-0008 D.O. 5036 was awarded in August 2006 to Alpha Research and Technology.
(4) Basic contract # FA4600-04-C0010, Computer Science Corporation, Falls Church, VA, Jul 04 awarded with nine option years. Lockheed Martin Corp, Bellevue, NE, Jul 04 basic contract award with nine one-year options
(5) Separate contracts awarded for SACCS and DIRECT. General Dynamics, Needham, MA, Mar 06 contract awarded for DIRECT. SACCS contract awarded to ITT SACCS Support Force, Offutt AFB, NE ECD June 07.
(6) B-2 Support contract information. WSSC contract awarded April 2007 to Northrop-Grumman, Palmdale, CA, contract F3365799D0028, annual delivery orders. EDS -- solicitation number FA8101-07-T0067.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(7) Various contract types (FP, FFP, FFP w/opt) will be used depending on best contract strategy.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CHEYENNE MOUNTAIN COMPLEX

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$11,212	$18,486	$13,662	$29,032	$29,373	$29,831	$30,204

Description:

This program supports the Cheyenne Mountain Complex (CMC). Cheyenne Mountain systems provide real-time ballistic missile warning, air defense, force management, battle management and command, control and communications for the North American Air Defense (NORAD) missions. The program also provides Air Force Space Command with communications and computer equipment for the Defense Messaging System (provides message service to all Department of Defense users (to include deployed tactical users) and interfaces to other U.S. government agencies, allied forces and Defense contractors), Base Network Control Center (the hub of Air Force network management, provides real-time monitoring, repair and optimization of base information systems), US Northern Command (USNORTHCOM) Mobile Consolidated Command Center and the Cheyenne Mountain Training System.

1. COMBATANT COMMANDER, MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The Combatant Commander's (COCOM) MCCC provides contingency reconstitution and continuity of command capabilities to accomplish directed Combatant Commander's missions in the event primary command and control facilities are incapacitated. FY09 funding will procure upgrades and MCCC integration of systems including Global Information Grid interfaces, Global Broadcast Service upgrade, and Video Teleconference upgrades. In addition, FY09 funding will continue upgrades to vendor products, commercial-off-the-shelf (COTS) products, which are integral to MCCC operations. Replacement components assures COTS products remain current and within the manufacturer's 18-month life cycle. FY09 funding will continue the USNORTHCOM MCCC transformation to encompass Defense Support of Civil Authorities (DSCA) mission requirements. This effort includes modifying High Altitude Electromagnetic Pulse (HEMP) hardened shelters to support USNORTHCOM's expanded role in DSCA. FY09 funding also procures additional communications and data processing specifically for USNORTHCOM Battle Staff performing DSCA operations.

2. NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT (NCMC-TW/AA) SYSTEMS: These systems integrate and correlate missile launch, space object orbit and air surveillance information to assess the nature of an enemy attack and issue warnings to the President of the United States, the Prime Minister of Canada, United States Secretary of Defense and warfighting Combatant Commanders. Funding procures Combatant Commanders Integrated Command and Control System (CCIC2S) hardware and associated software equipment for Cheyenne Mountain operating

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CHEYENNE MOUNTAIN COMPLEX

Description (continued):

locations, to include remote interfacing sites essential for executing US Strategic Command and NORAD missions exercised from the Cheyenne Mountain Operations Center and forward operating locations. Development funding is in Program Element 0305906F, NCMC-TW/AA Systems.

a. CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE: This program acquired the critical system components that comprise the information technology foundation for CCIC2S. Specifically, this includes system operations, communications, network, C2 services, workstations, databases and security. This Core C2 infrastructure is singularly integral to data exchange and interoperability between ground-based radar, airborne radar, satellites, fighter aircraft and intelligence sources. FY09 funding continues the refreshment placement of computer hardware and COTS software. This includes servers that support data storage, security services, Systems Operations and data integrity across the missions, storage devices, operating systems and applications that support Systems Operations and mission configuration management. Additionally, FY09 funding replaces the legacy Survivable Communications Integration System (SCIS) at sensor site locations within the CCIC2S Communications Processing System (CPS).

b. MISSILE ANALYSIS AND REPORTING SYSTEM (MARS): No FY09 funding requested.

c. SPACE COMMAND AND CONTROL:

(1) SINGLE INTEGRATED SPACE PICTURE (SISP): No FY09 funding requested.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CHEYENNE MOUNTAIN COMPLEX

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CHEYENNE MOUNTAIN COMPLEX									
COMBATANT COMMANDER MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A				$4,331		$4,145		$4,242
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS					{$6,881}		{$14,341}		{$9,420}
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE	A				$5,080		$14,341		$9,420
SINGLE INTEGRATED SPACE PICTURE (SISP)	A				$1,801				
TOTALS:					$11,212		$18,486		$13,662

Remarks:

Cost information is in thousands of dollars.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CHEYENNE MOUNTAIN COMPLEX

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
CHEYENNE MOUNTAIN COMPLEX									
COMBATANT COMMANDER MOBILE CONSOLIDATED COMMAND CENTER (MCCC)									
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Mar-07	Jul-07		
FY2008(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Feb-08	Aug-08		
FY2009(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Jan-09	Aug-09	Yes	
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS									
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE									
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Feb-07	Jul-07		
FY2008(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Dec-07	Jul-08		
FY2009(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Nov-08	Feb-09	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
SINGLE INTEGRATED SPACE PICTURE (SISP)									
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ COLORADO SPRINGS, CO	Mar-07	Jul-07		

Remarks:

(1) Quantities and unit costs vary due to different types/configurations of equipment being procured.
(2) Options to basic Firm Fixed Price (FFP) contract (through FY11) awarded Feb 00 by competitive bid to Lockheed Martin, Colorado Springs, CO.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GENERAL INFORMATION TECHNOLOGY

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$127,305	$122,233	$100,052	$113,784	$112,775	$93,805	$82,901

Description:

FY2008 funding total includes $7.2M in Congressional adds and $2.5M in GWOT supplemental funding.
FY2008 funding totals do not include $14.776M in FY2008 GWOT requirements still pending Congressional consideration.

General information technologies are a critical part of the Air Force (AF) vision to provide widespread, secure, robust, physically diverse terrestrial, airborne, and space-based transmission paths and information services between our fixed and deployed operating locations. These capabilities, when coupled with the AF's fixed-based transport and network operations infostructure from the Combat Information Transport System, the expeditionary base Theater Deployable Communications program, and via connections through teleport gateways, allow warfighters to exchange unprecedented levels of information. This program provides for commercially available Information Technology (IT) acquisitions and equipment additions to government-owned computer systems. Items to be purchased include, but are not limited to: desktop computers and associated peripheral devices (keyboards, monitors, printers), file servers, local area networks, gateways, and routers. New systems and system upgrades directly support operational mission requirements. All programs in this line improve AF automated capabilities via specific hardware and software tools. Programs support and enhance warfighting capability and all enhance productivity in support of AF weapon systems and personnel. Funds will support a standard system infrastructure that allows major commands to purchase computer equipment capabilities and provide quality networking.

AIR FORCE DISTRICT OF WASHINGTON (AFDW)

1. HEADQUARTERS INFORMATION TECHNOLOGY INVESTMENT: No FY09 funding requested.

2. HEADQUARTERS MAINFRAME SYSTEM SUPPORT: No FY09 funding requested.

3. DISASTER RECOVERY PROGRAM (DRP): The DRP supports Defense Intelligence Agency plans for data recovery capability of mission-critical

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Description (continued):

intelligence information used at both the Unified Command level and in the Tailored Intelligence Materials Production Program which procures hardware and software necessary to provide aircrews with worldwide virtual intelligence mission planning capabilities. FY09 funding enables information recovery on Top Secret/Sensitive Compartmented Information (TS/SCI) level networks. Funds will be used to procure servers, storage devices, associated hardware upgrades, and installation costs.

4. AIR FORCE HISTORICAL RESEARCH AGENCY: FY09 funding procures hardware and software support for the electronic imaging infrastructure of the Inferential Retrieval Indexing System (IRIS II). IRIS provides the capability to convert paper and microfilm documents to a digital format, and to organize them into an electronic document management system. Funds procure equipment that provides the capability to collect, organize, and disseminate historical paper and electronic documents for official researchers, warfighters, planners, and professional military students at Air University.

5. DISTRIBUTED TRAINING AND EXERCISES: FY09 funding procures Wargaming and analysis suites, hardware, and software in direct support of the Wargaming Informational Environment (WIE), which is distributed across the National Capitol Region, United States Air Forces in Europe, and Air Force bases in the continental United States.

6. PALMTOP EMERGENCY ACTION FOR CHEMICAL (PEAC): No FY09 funding requested. In prior budget submissions, PEAC funds were listed in the "AFMC" paragraph.

AFCA

7. AIRBORNE NETWORKING INTEGRATION: FY09 funds procure equipment for the Air Force Communications Agency System Integration Lab which supports efforts to enhance Airborne Communications networks. Funds also procure Ground/Government Entry Point (GEP) equipment and interfaces to existing commercial and military systems, including, but not limited to, Interim Capability for Airborne Networking (ICAN) and Battlefield Airborne Communications Node (BACN).

AIR COMBAT COMMAND (ACC)

8. BASE OPERATIONS-GEOSPATIAL: FY09 funds procure equipment for Air Force Geospatial Product Library (GPL) operations, commercial imagery,

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Description (continued):

and the Air Force Intelligence Network (AFINTNET). The GPL provides immediate access of critical geospatial data to AF warfighters at over 200 separate locations worldwide including Afghanistan and Iraq. Funding supports all operations critical to Controlled Image Base (CIB) production. CIB is the imagery data used in all AF automated mission planning and intelligence systems. Funding also supports imagery data purchases for CIB production and sustains the AFINTNET system which is the source of TS/SCI and message traffic. AFINTNET is used for targeting, database, mission planning, and mission effectiveness for JASSM, CALCM, U-2, GLOBAL HAWK, and PREDATOR weapon systems and provides the Air Force with communications to the Joint Worldwide Intelligence Communications (JWICS) network.

9. TACTICAL AIR FORCES: No FY09 funding requested.

AIR EDUCATION AND TRAINING COMMAND (AETC)

10. TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): The TTMS is an automated information system supporting six training functions: student management, course design and development, resource management, employee management, evaluation and data analysis. The TTMS uses commercial-off-the-shelf software for the management of all technical training students and resources, design and development of courses, evaluation of training to include testing and critiques, data analysis, and management of employee records. FY09 funds will provide IT modernization systems, to include workstations, servers, and software for TTMS technical training bases, field training detachments, operating locations, and basic military training organizations. Funds will procure equipment for on-line testing, resource standardization and instructor records applications. This system tracks over 180,000 students annually in over 2,000 courses at six training locations.

11. AIR FORCE INSTITUTE OF TECHNOLOGY EDUCATION AND RESEARCH SYSTEM (AFIT EARS): This program provides for the purchase of information technology infrastructure to meet Air Force-wide educational requirements for Air University (AU) and AFIT-unique education, research, consulting, and academic support missions. The AFIT EARS program allows for the acquisition of integrated information technology solutions and leading-edge infrastructure components that will keep AFIT at the forefront of technology. Funding supports investments which include data and application servers; enterprise backup, storage and retrieval systems; remote access virtual servers; and high bandwidth internetworking equipment to support multimedia delivery and collaborative applications. This integrated IT infrastructure provides a high capacity academic computing network supporting AFIT students, faculty, and staff, and AU Distance Learning students. Acquisitions for FY09 consist of expanded network services to support new AFIT facilities and continued replacement and upgrades of outdated central academic computing systems and obsolete network architecture.

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Description (continued):

12. EDUCATION AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM: No FY09 funding requested.

13. AIR UNIVERSITY (AU): These funds support efforts to migrate to the Education Management System (EMS). The EMS implements effective and efficient education information management practices at AU. The EMS encompasses the management of an information infrastructure (local networks and associated equipment), targeting major common business processes (Student Administration, including registrar functions, curriculum management and delivery, and resource management) employed throughout AU. FY09 funds will be used to continue to establish information infrastructure to facilitate research, enhance curriculum, and provide information required to execute the education mission. This requirement supports the AU/CC approved IT Strategic Plan goal to leverage information technology in the education environment. Funds also purchase upgrades to the enterprise platform architecture and interoperability between education curriculums.

14. AIR FORCE RECRUITER INFORMATION SUPPORT SYSTEM (AFRISS) II: AFRISS II is the AF's modernization program to replace the legacy Procurement Management Information System. FY09 funds purchase hardware and associated software necessary to automate and streamline recruiting processes to provide improved integration with the Military Personnel Data System (MilPDS). AFRISS II improves the speed by which the AF processes recruits, an important capability in an increasingly competitive market, and fully implements Air National Guard Recruiting functionality. Additionally, funding will procure three telecommunications modules and other required enhancements necessary to support recruiting business practices, applicant entry into active duty, and an increased number of recruiters.

15. RESERVE OFFICER TRAINING CORPS (ROTC): FY09 funds will procure equipment to support the stand up of the Air Force Cyber Boot Camp. This is a 10-week advance course under the Engineering Programs located in Rome, NY. Funding will procure computer hardware and software used by the ROTC cadets participating in the program.

AIR FORCE MATERIEL COMMAND (AFMC)

16. COMPREHENSIVE ENGINE TRENDING AND DIAGNOSTICS SYSTEM (CETADS): CETADS is the jet engine trending and diagnostic system for the AF, supporting engine test software for AF On-Condition Maintenance and Reliability Centered Maintenance programs. It is a National Security System Program, utilized worldwide in support of Air Combat Command, Air Mobility Command, Air National Guard, AF Reserve Command, Pacific Air Forces,

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Description (continued):

US Air Forces in Europe, AF Materiel Command, and Air Education and Training Command. The system currently supports 10 different types of jet engines. The information storage and retrieval system manages over 400,000 critical parts in the AF fleet of approximately 15,000 turbine engines. The system analyzes installed engine performance and maintenance data to rapidly and accurately provide alarms, diagnostics, trends, forecasts, and engine health data to flight line personnel, engine managers, and propulsion engineers. This essential, invaluable statistical information is used to prevent engine and weapon system damage by diagnosing and trending the health of the engine before failure. The goals of CETADS include: reduced maintenance costs associated with AF turbine engines; increased safety of flight; and increased aircraft utilization rates. FY09 funds provide for continued CETADS procurement of a wide range of special configurations of computers and commercial and peripheral hardware devices essential for multiple weapon system support. CETADS has been designated a mission-critical computer resource.

17. NETWORK SERVICES: FY09 funds provide information assurance software and Consolidated Network Control Center (CNCC) server hardware upgrades at AFMC bases, and will support continued consolidation of electronic mail services at AFMC's Air Logistics Centers (ALCs). Specifically, these funds will acquire additional storage (LANs, servers), accommodating expanding customer needs.

18. WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS): WSMIS provides an automated logistics decision support system to ensure that USAF weapon systems and combat forces meet wartime taskings and peacetime operating requirements. FY09 funds will procure computer hardware and associated peripheral equipment to maintain operational readiness/availability of the WSMIS module. In addition, FY09 funds will satisfy WSMIS decision support processes in unclassified and classified environments and ensure these implementations maintain the foundation infrastructure to support future enterprise initiatives such as Logistics Information Requirements, Global Force Management, Expeditionary Combat Support System, and Air Force Data Services migration.

19. AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT) PROGRAMS: AIT is a collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification, smart cards, memory cards, laser cards, touch memory, and voice and biometrics identification. These technologies provide timely and accurate automatic capture, aggregation, and transfer of data to management information systems with minimal human involvement. By capitalizing on advances in technology the Air Force is able to gain efficiencies in the logistical supply chain and asset visibility throughout an item's life cycle. Project funding enables compatibility of Air Force and industry standards in the core areas of supply, transportation, and maintenance, as well as weaving commercial AIT business practices and standards into Air Force logistics infrastructure. AIT management information systems include, but are not limited to Radio Frequency Identification (RFID), Serial Number Tracking (SNT), Item Unique Identification (IUID), and Real Time Location

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Description (continued):

Systems (RTLS) technology and systems. FY09 funding acquires equipment, software, and training.

20. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) POINT OF MAINTENANCE (POMX): POMX supports multiple disciplines (e.g. maintenance, munitions, etc.) by utilizing information technology reduce the user data collection burden. This capability will enable POMX users to record and transmit their work efforts directly into maintenance computer systems from the work location or laptop, increase the data accuracy, and minimize the data latency. AFSOC POMX incorporates Interactive Electronic Technical Manual (IETM) infrastructure requirements creating a combined multiple use E-Tool (POMX and IETM) on the same device. FY09 funds purchase, sustain, and maintain the electronic tools and wireless LAN equipment, including a deployable computer server, necessary to ensure continued use of POMX whether at home station or in a deployed scenario.

21. CHIEF OF STAFF AIR FORCE (CSAF) INNOVATION PROGRAM: In FY08, this program was known as "EAGLE VISION". Eagle Vision is a family of systems providing commercial imagery data to operational commanders for mission planning, rehearsal, visualization, and intelligence support purposes. Eagle Vision is composed of the Data Acquisition Segment (DAS) and Data Integration Segment (DIS). FY09 funds improve processing capability; add interfaces to additional satellites; and upgrade the system baseline for all Eagle Vision systems.

22. INTEGRATED BROADCAST SERVICE (IBS): The IBS is a multisensor, multisource system of systems for the dissemination of integrated threat warning and blue force tracking information. IBS provides intelligence producers and information sources the means to analyze and disseminate strategic, operational, and tactical intelligence and warning information directly to the warfighter. The IBS operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination into a future common architecture message format. FY09 funds procure hardware and associated software upgrades/licenses for IBS operational baseline critical components. Increase in FY09 funds represent Air Force's purchase of a new IBS ground terminal to replace a terminal that has reached the end of its lifecycle. Development funding is in Program Element 0603850F, Integrated Broadcast Service.

23. SCIENCE AND ENGINEERING LAB DATA INTEGRATION (SELDI): No FY09 funds requested.

24. JOINT INTERFACE CONTROL OFFICER SUPPORT SYSTEM (JSS): FY09 funds procure support for the JSS tool set that facilitates the Joint Interface Control Officer's ability to plan and manage the Multi-Tactical Digital Information Link (TADIL) Data Link Network. TADIL is an interface between two or more command and control or weapon systems via a single or multiple network architecture and multiple communication media for exchange of tactical information. JSS also includes data exchange requirements, corrects network deficiencies, and transmits and receives in the Multi-TADIL Data

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Description (continued):

Link Network. The JSS Common Core Capability is a common suite of software and hardware delivered to the services for integration into operations centers. A full expeditionary capability package includes a self-contained, mobile out-of-the-area kit that includes radios, data terminals, power, and shelters. Development funding is in Program Element 0207434F, Link-16 Support and Sustainment.

25. OBJECTIVE GATEWAYS/JOINT RANGE EXTENSION: Gateway systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks. The Air Force continues to enhance the capabilities of fielded, legacy gateways such as the Joint Range Extension (JRE), which satisfy niche data link requirements (principally range extension and interoperability between Link-16 and Situational Awareness Data Link (SADL)/Enhanced Position Location and Reporting System (EPLRS) networks). The Objective Gateway (OG) program is acquiring a family of advanced gateways to enable a transition from narrowly-focused legacy gateways to a family of modular and scalable airborne and ground-based gateways, with internet protocol (IP)-based networking capabilities that service theater-wide operational and tactical users.

FY09 JRE funding procures JRE Transparent Multi-Platform Gateway (TMPG) Equipment Packages (JTEPs) and associated interim contractor support. JTEPs provide connectivity between Air and Space Operations Centers (AOCs) and forward-deployed joint forces. They also connect NORAD Air Defense Sectors with homeland defense forces, including combat air patrols and military support to first responders. FY09 funding procures mobile and fixed ground-based equipment for USSTRATCOM Distributed Nuclear Command and Control (DNC2) requirements and operational evaluation of gateway capabilities. Funding also provides technical refresh and capability upgrades to fielded gateways, while Objective Gateway (OG) systems are being developed and fielded. Development funding is in Program Element 0207434F.

26. INITIAL FIELDING SUPPORT (IFS): IFS provides capabilities and services required for initial fielding, capability integration, interoperability, and network engineering services for Tactical Data Links (TDL) across Air Force platforms. FY09 funding procures equipment necessary to support Air Force and joint TDL interoperability testing and fielding.

27. AF PARTICIPATING TEST UNIT (AFPTU): No FY09 funding requested.

28. POCKET J: FY09 funding procures systems with Pocket J-like capabilities and associated interim contractor support for NORAD Regional Air Operations Centers/Air Defense Sectors. Pocket J is a deployable, ground-based system that increases CONUS TDL coverage and provides remote, machine-to-machine connectivity between NORAD command and control centers and combat air patrol aircraft equipped with Link 16 or Situational Awareness Data

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Description (continued):

Link (SADL). Development funding is in Program Element 0207434F, Link-16 Support and Sustainment.

29. WORLDWIDE WAREHOUSE REDISTRIBUTION SYSTEM: No FY09 funding requested.

AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)

30. AFOSI COMPUTER NETWORK: AFOSI COMPUTER NETWORK: The AFOSI Directorate of Warfighting Integration is responsible for centralized management of sensitive data. AFOSI processes this data on unclassified, classified, Special Access, and Top Secret/SCI computer and information management systems to achieve the command's operational objectives in support of the AF and Office of the Secretary of Defense as well as to achieve Executive mandates to improve information sharing within and between the law enforcement and intelligence communities. FY09 funds provide for the replacement of vital computer equipment to include servers and mass storage devices. This will enable AFOSI to stay current in IT technology supporting 3,000 worldwide personnel to effectively process, track, and disseminate perishable investigative information to AF commanders and national-level customers.

31. DEFENSE CYBER CRIME CENTER (DC3): The DoD DC3 is comprised of the DoD Computer Forensic Laboratory, the DoD Cyber Investigations Training Academy, and the DoD Cyber Crime Institute. The DC3 is responsible for providing state-of-the-art electronic forensic services and cyber investigative and operational support to DoD customers, to include protection of DoD vital information systems. FY09 funds procure media analysis and teaching computer forensics, as well as storage area network technologies and associated backbone connectivity.

32. DEFENSE JOINT COUNTERINTELLIGENCE PROGRAM. This element supports Technical Surveillance Countermeasures (TSCM) to counterintelligence investigations and operations conducted by the Air Force Office of Special Investigations (AFOSI) for both AF and DoD facilities to deter and detect technical surveillance operations conducted by Foreign Intelligence Services to compromise classified or sensitive information. The equipment required to provide technical support to investigations is unique and complex. FY09 funding procures the periodic technological refresh of equipment to provide state of the art capabilities to detect and neutralize criminal activities targeted against the AF and DoD.

AIR FORCE PERSONNEL CENTER (AFPC)

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Description (continued):

33. MILITARY PERSONNEL DATA SYSTEM: FY09 funding provides for the operation/sustainment of AFPC IT infrastructure. Specifically, funding provides for upgrades, continuing stabilization, and sustainment of the current core communications and computer facilities supporting AFPC. The system employs client-server and relational database management technologies to support all phases of the personnel life cycle, including accession, training, assignment, promotion, retirement, and death.

34. REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: FY09 funding continues to support PALACE COMPASS regionalization and modernization of 98 worldwide AF Civilian Personnel Operations sites, including the Regional Service Center at Randolph AFB, TX. The hardware associated with PALACE COMPASS implementation and the subsequent technology refresh support a variety of AF personnel network applications such as: Defense Civilian Personnel Data System, Personnel Automated Records Information System, Civilian Personnel Decision Support System, Employee Benefits and Information System, Interactive Voice Response System, RESUMIX (Civilian Personnel Decision Support System), Business Objects, and the Civilian Announcement Notification System.

35. PERSONNEL SERVICE DELIVERY (PSD): FY09 funds procure replacement hardware and upgrade central personnel computing systems and network architecture. It supports the Air Force Directorate of Personnel Force Development and Transformation initiative, creating integrated personnel/manpower/pay functionality, using web self-service capability and a central contact center. It supports the migration of the Military Personnel Data System to the Defense Integrated Military Human Resource System and prevents gaps in functionality between the two primary AF military human resource systems. In prior budget submissions, PSD funds were listed in the "11WG" paragraph.

AIR INTELLIGENCE AGENCY (AIA)

36. OFFENSIVE INFORMATION WARFARE (IW) SUPPORT: No FY09 funding requested.

US AIR FORCE ACADEMY (USAFA)

37. AIR FORCE ACADEMY COMPUTER SUPPORT: The USAFAnet (USAFA Infostructure) provides all backbone connectivity between core network services (files, e-mail, print, web) and common user systems including NIPRNet, SIPRNet, and Internet access. FY09 funds procure equipment to upgrade performance, security, and availability of the USAFAnet to comply with AF Enterprise Architecture standards in order to support the Air Force Academy

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Description (continued):

mission. FY09 funds also procure equipment to continue the modernization of the Cadet Administrative Management Information System (CAMIS) from a legacy platform to an upgraded platform. The CAMIS supports all facets of student management to include: a cradle-to-grave system containing all admissions, registrar, preparatory, academic, athletic, military training data from application to graduation/commissioning, through military career of each cadet; the CAMIS rides on the USAFAnet.

US AIR FORCES IN EUROPE (USAFE)

38. INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): This project provides continued equipment upgrades for USAFE intelligence ADP systems and communications networks. FY09 funds upgrade information technology needed in support of analysis and dissemination of intelligence to aircrews for mission planning throughout the USAFE area of responsibility, directly supporting combat/crisis/peacekeeping operations.

39. WARRIOR PREPARATION CENTER (WPC): The WPC provides senior battle commanders and their staff the opportunity to train at the operational level of war using interactive computer simulations that replicate, as closely as possible, the real-world environment. The WPC extends this training opportunity to NATO as wells as partnership for peace nations. These exercises, mission rehearsals, and contingency operations improve component, joint, and combined forces' expeditionary readiness in line with DoD training transformation goals. While the WPC's focus is the operational level of war, tactical training continues to merge into exercise scenarios thanks to the availability of weapon system simulators. FY09 funds allow the WPC to tap these systems to develop a more realistic and complex joint training synthetic battle space environment for all participants.

UNITED STATES NORTHERN COMMAND (USNORTHCOM)

40. USNORTHCOM ARCHITECTURE AND INTEGRATION: FY09 funds procure the equipment needed to provide quick, accurate information to the combatant commander to allow for appropriate/correct responses to an attack or disaster. USNORTHCOM communications and electronics systems provide information protection measures against cyber attacks, including secure data exchanges with Homeland Security partners, and continue connectivity with DoD's network infrastructure. Funds provide communications infrastructure for USNORTHCOM Headquarters buildings. FY09 funds also procure equipment necessary for the Command Center transformation. This effort will improve the effectiveness and efficiency of NORAD and USNORTHCOM operations by consolidating the functionality of the Cheyenne Mountain Directorate facility into the NORAD-NORTHCOM (N-NC) Command Center (located on Peterson AFB, CO), creating a single integrated command center. The single integrated command center will allow the N-NC Commander and

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Description (continued):

his staff to respond to the full spectrum of threats to the United States and North America.

US STRATEGIC COMMAND (USSTRATCOM)

41. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE: No FY09 funding requested.

AIR FORCE SPACE COMMAND/SPACE AND MISSILE CENTER

42. RESEARCH AND DEVELOPMENT SPACE AND MISSILE OPERATIONS (RDSMO) PROGRAM: This Air Force umbrella program includes funding for the RDT&E Support Complex (RSC), the Center for Research Support (CERES), and Multi-Mission Space Operations Center (MMSOC).

a. RSC/CERES UPGRADES: FY09 funds procure RSC and CERES computer and hardware upgrades to improve the consolidated satellite telemetry, tracking, and commanding facilities located at Kirtland AFB, NM and Schriever AFB, CO. It also funds upgrades to worldwide deployable ground systems that support the space test research and readiness control mode and interface with the Air Force Satellite Control Network and other agencies in support of space system testing.

b. MULTI-MISSION SPACE OPERATIONS CENTER (MMSOC): FY09 funds will also procure MMSOC hardware, software, and communications capabilities needed to install systems and perform necessary testing for four operational satellite ground systems. The MMSOC's main objective is to transit research and development space vehicle technology with residual military utility to operational status for immediate real world support and initial operational utility assessment for future acquisition programs. The MMSOC is also designed to be a satellite command and control (C2) spiral evolution resource for new satellite systems. Development funding is in Program Element 0305173F, Space and Missile Test and Evaluation Center.

NATIONAL SECURITY EMERGENCY PREPAREDNESS

43. SITE R ADP SUPPORT: FY09 funds procure hardware, computers, storage, local and long-haul communications, infrastructure, data replications, and other networking equipment to improve/expand both the classified and unclassified AF C4 systems at a HQ USAF relocation site. Equipment will ensure connectivity, computing, and information retrieval capability. Funding also supports the development of a Continuity of Operations (COOP) web portal,

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Description (continued):

which is designed to track personnel in route to alternative sites, their training status and pertinent COOP documents. Should HQ USAF be relocated, SECAF, CSAF, and their staffs require the same capabilities at the deployed site as they currently have in the Pentagon.

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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GENERAL INFORMATION TECHNOLOGIES									
AIR FORCE DISTRICT OF WASHINGTON					{$15,863}		{$7,437}		{$7,607}
HQS IT INVESTMENT	A				$6,734				
HQS MAINFRAME SYS SPT	A				$48				
DISASTER RECOVERY PROGRAM (DRP)	A				$4,335		$4,461		$4,601
AF HISTORICAL RESEARCH AGENCY	A				$329		$516		$530
DISTRIBUTED TRAINING AND EXERCISES	A				$1,217		$2,460		$2,476
PALMTOP EMERGENCY ACTION FOR CHEMICAL (PEAC)	A				$3,200				
AFCA							{$501}		{$464}
AIRBORNE NETWORKING	A						$501		$464
ACC					{$3,093}		{$2,490}		{$2,549}
BASE OPERATIONS-GEOSPATIAL	A				$2,437		$2,490		$2,549
TACTICAL AIR FORCES	A				$656				
AETC					{$7,067}		{$6,525}		{$6,940}
TECHNICAL TRAINING MANAGEMENT SYSTEM	A				$231		$1,327		$1,611

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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFIT EARS	A				$660		$675		$691
EDUCATION AND TRAINING TECH APPLICATIONS PRGM	A				$1,891				
AU	A				$1,261		$1,303		$1,337
AFRISS	A				$3,024		$3,120		$3,201
ROTC	A						$100		$100
AFMC					{$71,761}		{$66,599}		{$49,415}
CETADS	A				$250		$260		$265
NETWORK SERVICES	A				$250		$270		$300
WSMIS	A				$557		$705		$415
AUTOMATIC IDENTIFICATION TECHNOLOGY (1)	A				$9,655		$13,476		$9,845
AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) POINT OF MAINTENANCE (POMX)	A				$3,138		$3,250		$3,338
CSAF INNOVATION PROGRAM	A				$9,136		$654		$671
INTEGRATED BROADCAST SERVICE (5)	A				$11,889		$20,634		$18,436
SCIENCE & ENG LAB DATA INTEGRATION (3)	A						$1,594		
JOINT INTERFACE CONTROL OFFICER SUPT SYT	A				$5,784		$7,752		$6,922

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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
OBJECTIVE GATEWAYS/JOINT RANGE EXTENSION (4)	A				$17,914		$7,952		$1,788
INITIAL FIELDING SUPPORT (IFS)	A				$4,888		$1,252		$1,376
AF PARTICIPATING TEST UNIT (AFPTU)	A				$2,000				
POCKET J (5)	A				$5,000		$8,800		$6,059
WORLDWIDE WAREHOUSE REDISTRIBUTION SYSTEM	A				$1,300				
AFOSI					{$2,708}		{$3,096}		{$2,879}
AFOSI COMPUTER NETWORK	A				$2,432		$2,522		$2,061
DEFENSE CYBER CRIME CENTER	A				$276		$574		$292
DEFENSE JOINT COUNTERINTELLIGENCE PROGRAM	A								$526
AFPC					{$16,230}		{$14,576}		{$14,201}
MILITARY PERSONNEL DATA SYSTEM	A				$3,902		$4,142		$4,275
REGIONALIZATION OF CIVILIAN PERSONNEL SPT	A				$8,434		$8,808		$8,904
PERSONNEL SERVICE DELIVERY	A				$3,894		$1,626		$1,022
AIA					{$2,007}				
OFFENSIVE INFORMATION WARFARE SUPPORT	A				$2,007				

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GENERAL INFORMATION TECHNOLOGY

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
USAFA					{$3,031}		{$3,141}		{$3,233}
USAFA COMPUTER SPT	A				$3,031		$3,141		$3,233
USAFE					{$1,134}		{$1,170}		{$1,193}
INTELLIGENCE ADPE	A				$279		$285		$291
WPC	A				$855		$885		$902
US NORTHERN COMMAND							{$8,551}		{$1,411}
USNORTHCOM ARCHITECTURE & INTEGRATION	A						$8,551		$1,411
USSTRATCOM					{$488}				
COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE	A				$488				
AIR FORCE SPACE COMMAND/SPACE & MISSILE CENTER					{$3,741}		{$7,714}		{$10,045}
RDSMO									
RSC/CERES UPGRADES	A				$250		$300		$310
MMSOC	A				$3,491		$7,414		$9,735
NATIONAL SECURITY EMERGENCY PREPAREDNESS					{$182}		{$433}		{$115}
SITE R ADP SUPPORT	A				$182		$433		$115

	P-1 ITEM NO 30		PAGE NO: 82		Page 4 of 5

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GENERAL INFORMATION TECHNOLOGY

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TOTALS:					$127,305		$122,233		$100,052

Remarks:

Cost information is in thousands of dollars.

(1) Includes $1.6M FY08 Congressional Add for IMPACT (Information Modernization for Processing with Advanced Coating Technologies)
(3) Includes $1.6M FY08 Congressional Add for SELDI (Science, Engineering, and Laboratory Data Integration)
(4) Includes $1.6M FY08 Congressional Add for Mobile Common Data Link Gateway originally added to Theater Battle Management C2 Systems.
(5) Includes $2.5M FY08 GWOT Supplement for "Blue Force Tracker"
(5) Includes $2.4M FY08 Congressional Add for Pocket J for NORAD Immediate Warfighter Need

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$13,803	$14,222	$16,148	$16,146	$16,976	$21,508	$19,832

Description:

The Global Command & Control System-Air Force (GCCS-AF) program provides the common AF infrastructure and hardware necessary to pass AF command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components which include, but are not limited to, servers, work stations, commercial-off-the-shelf (COTS) software, and associated peripherals to provide users with the full suite of joint baseline capability (including the Common Operating Picture) and AF specific applications such as the Deliberate Crisis Action Planning & Execution Segments (DCAPES), and the AF's feed into the Joint Operations Planning and Execution System (JOPES). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, manpower, and logistics: AF supported warfighting commanders, Headquarters United States Air Force, major command headquarters (MAJCOM), numbered air forces, wings, Air National Guard (ANG) bases, Air Force Reserve (AFR) bases, and remote sites. Each site will comply with current Air Force and Department of Defense (DoD) network initiatives by employing a standardized interface among AF base-level classified C2 networks, AF base-level network control centers, and the joint Defense Information Systems Agency Secret Internet Protocol Network. This program provides a flexible open system, distributed C2 architecture necessary to support the client/server-based joint GCCS. GCCS supports AF operations by installing and upgrading a site's classified C2 system through extensive use of COTS technology that adheres to Air Force command, control, communications, and computer architectures and standards.

1. GCCS-AF MODERNIZATION: FY09 funds procure GCCS-AF hardware and software (government-off-the-shelf and commercial-off-the-shelf) at Combatant Commander (COCOMS), MAJCOMS, ANG, and AFR locations providing a full spectrum of command, control, logistics, and intelligence capability from strategic to unit level operations with total joint service connectivity. Funds also modernize logistically unsupportable MAJCOM C2 systems to accept advancements in the Air Force and joint GCCS software. The classified command and control infrastructure of MAJCOM C2 facilities (e.g. command posts) will be modernized by installing state-of-the-art components for improved integration, interoperability, data throughput and system security. In addition, funds procure application and data base servers, system guards, cryptological and end user equipment for multiple new sites and supports the deployment of the DCAPES application. This expanded GCCS architecture supports functional users on each base and specifically incorporates manpower and logistics functions into GCCS. This fielding is consistent with the AF's Air Expeditionary Force C2 structure and the Joint Vision for the follow-on

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM

Description (continued):

fielding of the Net-Enabled Command Capability (NECC) System, and will allow for the continued integration of evolving C2 capabilities into the AF's operational framework. Funds provide technical refreshment of hardware, procure software and direct labor to support the warfighter's fielded systems.

2. NECC IMPLEMENTATION: FY09 funding procures hardware, installation, and initial training for required USAF NECC Local Global Information Grid (GIG) Computing Nodes (LGCN). The NECC Program will deliver continuous C2 enhancements to the Warfighter. It will be founded on a single, net-centric, services-based C2 architecture and provide the decision support infrastructure enabling the Warfighter to access, display, and understand the information necessary to make efficient, timely, and effective decisions. The capabilities to be provided will focus on Force Projection, Force Readiness, Situational Awareness, Intelligence, Force Employment (Air/Space Operations, Land Operations, Maritime/Littoral Operations), and Force Protection.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
GCCS-AF MODERNIZATION							{$13,803}			{$14,222}			{$10,799}
HARDWARE	A						$12,303			$12,722			$9,299
SOFTWARE LICENSES							$1,500			$1,500			$1,500
NECC IMPLEMENTATION													
HARDWARE	A												$1,999
TRAINING/INSTALLATION	A												$3,350
TOTALS:							$13,803			$14,222			$16,148

Remarks:
Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
GCCS-AF MODERNIZATION									
HARDWARE(1)									
FY2007(2)			AFMC/ESC	MIPR/IDIQ	DISA/ DITCO/ SCOTT AFB, IL	Jan-07	Mar-07		
FY2008(2)			AFMC/ESC	MIPR/IDIQ	DISA/ DITCO/ SCOTT AFB, IL	Jan-08	Mar-08		
FY2009(2)			AFMC/ESC	MIPR/IDIQ	DISA/ DITCO/ SCOTT AFB, IL	Jan-09	Mar-09	Yes	
NECC IMPLEMENTATION									
HARDWARE(1)									
FY2009(3)			AFMC/ESC	C/IDIQ	UNKNOWN	Jan-09	Mar-09	Yes	
TRAINING/INSTALLATION									
FY2009(3)			AFMC/ESC	C/IDIQ	UNKNOWN	Jan-09	Mar-09	Yes	

Remarks:

(1) Quantity and unit costs vary due to different types/configurations of equipment being procured.
(2) Multiple government contract vehicles. These can include (but are not limited to) NETCENTS, DISA BPA (Blanket Purchase Agreement), AF Microsoft Enterprise Agreement (AFMEA), and Scientific & Engineering Workstation Procurement. Award/delivery dates reflect date of first award and first delivery.
(3) Multiple government contract vehicles. These can include (but are not limited to) NETCENTS, Professional Engineering Services Support (PESS),

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
Engineering Technology and Support Services (ETASS). Award/delivery dates reflect date of first award and first delivery.									

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MOBILITY COMMAND AND CONTROL

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$9,568	$10,349	$10,475	$10,881	$11,034	$11,250	$11,473

Description:

FY2008 funding totals do not include $24.0M in FY2008 GWOT requirements still pending Congressional consideration.

Global Mobility Command and Control (C2) provides critical communications supporting management and control of national power projection force deployments, aircraft flight planning systems, airlift control elements, time sensitive logistics requirements, and Special Tactics operations.

1. GLOBAL MOBILITY C2 ARCHITECTURE - AIR MOBILITY COMMAND (AMC): AMC requires an effective mobility C2 system to provide efficient centralized management of the entire United States strategic mobility fleet. Most Major Commands' entire base communications infrastructure funding is in P-1 Line 56, Base Communications Infrastructure. However, AMC requests a portion of its base communications infrastructure funding in P-l Line 31, Mobility Command and Control to fund AMC-unique systems directly supporting AMC's global mobility mission.

a. LOCAL AREA NETWORK (LAN): FY09 funding continues procurement of network equipment at AMC bases to build an enhanced, robust and reliable command-wide intra- and inter-building networking infrastructure. This infrastructure interfaces with critical Air Force systems such as the Defense Message System, Combat Information Transport Systems, Base Level Systems Modernization, and other AMC-specific systems such as Global Decision Support System, Objective Wing Command Post (OWCP), and Air Mobility Advanced Console System (AMACS) program. Funding also procures Defense Red Switched Network (DRSN) switches for high-quality secure voice and conference-call capabilities for senior decision makers.

OWCP modernizes, enhances, standardizes, and migrates existing Command, Control, Communications, Computers and Surveillance (C4S) infrastructure supporting AMC Command Posts and Air Mobility Control Centers to meet the new OWCP physical architecture. OWCP consolidates specific command and control functions into one central facility at each base.

The AMACS program standardizes communications consoles at stateside AMC command posts. AMACS consists of a switching system, dispatcher

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MOBILITY COMMAND AND CONTROL

Description (continued):

console with touch screen operation, maintenance terminal, ancillary equipment and software necessary to make the system operational.

b. ADVANCED COMPUTER FLIGHT PLAN (ACFP): No FY09 funds requested.

c. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): Funding provides Command and Control (C2) communications capabilities for deployed Mobility C2 Forces and Mission Support Team C2 operations. These operations rapidly install mission support communications at "bare base" locations where communications to support air mobility operations is nonexistent or insufficient. The DSATCOM program is the primary funding vehicle for procuring communications equipments supporting these components. The resources directly support C2 and In-Transit Visibility (ITV) of deployed and enroute personnel, aircraft, and cargo providing critical communications to Contingency Response Groups (CRG). CRGs are self-sufficient groups of multi-skilled, highly-trained Airmen, representing different Air Force specialty codes, who can rapidly deploy anywhere in the world with little notice to open air bases for any follow-on mission.

The AN/TSC-159 Mobile Air Reporting and Control (MARC) shelter is the primary weapon system providing this support. It is a rapid deployable, self-contained, C2 / ITV command center. This shelter functions as the base command post during the initial phases of airbase build-up. It contains integrated communications equipment such as radios, computers, printers, and fax machines. Shelters currently in use are at end-of-life. FY09 funding will be used to remove the integrated communications equipment from old shelters and integrate the equipment into the new shelters. Some equipment, such as laptops, will be replaced during this integration effort.

2. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM: AFSOC TAC C2 program funds procure enhanced communications systems and equipment essential for Special Tactics (ST) operators to perform their mission. ST operators include combat controllers, pararescue personnel, and combat weather operators. FY09 funds purchase new or modernize existing tactical radios, airfield surveying equipment, advanced weather equipment, tactical airfield/drop zone marking beacons and ancillary support equipment. ST operators use this equipment to gather assault zone suitability data, drop zone data, and weather data.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
MOBILITY COMMAND AND CONTROL

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. GLOBAL MOBILITY C2 ARCHITECTURE									
A. LAN	A				$4,333		$4,907		$5,467
B. ACFP	A				$750		$750		
C. DSATCOM	A				$4,180		$4,366		$4,672
2. AFSOC TAC C2 PROGRAM	A				$305		$326		$336
TOTALS:					$9,568		$10,349		$10,475

Remarks:

Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2008		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL					
ITEM NAME/ FISCAL YEAR	**QTY.**	**UNIT COST**	**LOCATION OF PCO**	**CONTRACT METHOD & TYPE**	**CONTRACTOR AND LOCATION**	**AWD. DATE**	**DATE FIRST DEL.**	**SPECS AVAIL NOW**	**DATE REV. AVAIL**
GLOBAL MOBILITY C2 ARCHITECTURE(1)									
LAN									
FY2007(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-06	Sep-07		
FY2008(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-07	Jan-08		
FY2009(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-08	Jan-09	Yes	
ACFP									
FY2007(3)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ ST LOUIS, MO	Mar-07	Sep-07		
FY2008(4)			HQ AMC	C/FFP	SUN MICROSYSTEMS/ SANTA CLARA, CA	Jan-08	Sep-08		
DSATCOM									
FY2007(5)			HQ AMC	MIPR/OPT/FFP	NAVY/ BRITISH AEROSPACE SYSTEMS/ UK	Dec-06	Aug-07		
FY2008(5)			HQ AMC	MIPR/OPT/FFP	NAVY/ BRITISH AEROSPACE SYSTEMS/ UK	Dec-07	Aug-08		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MOBILITY COMMAND AND CONTROL

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(5)			HQ AMC	MIPR/OPT/FFP	NAVY/ BRITISH AEROSPACE SYSTEMS/ UK	Dec-08	Aug-09	Yes	
AFSOC TAC C2 PROGRAM									
FY2007(6)			HQ AFSOC	MIPR/FFP	MULTIPLE	Mar-07	Aug-07		
FY2008			HQ AFSOC	MIPR/FFP	UNKNOWN	Mar-08	Aug-08	Yes	
FY2009			HQ AFSOC	MIPR/FFP	UNKNOWN	Mar-09	Aug-09	Yes	

Remarks:

(1) Quantities and unit costs vary due to different site configurations/computer items being procured.
(2) Utilizes Air Force Computer Acquisition Center 308 and Desktop IV & V contracts. Multiple award and delivery dates to multiple vendors; award/delivery dates reflect date of first award and delivery.
(3) Contract awarded Oct 02 (nine option years) to Hewlett Packard, St Louis, MO.
(4) Contract awarded Jan 08. Migrating to Sun Microsystems servers running Solaris operating system with a support contract with 3 option years.
(5) HC1013-06-F2047 with 4 option years awarded June 2005 and runs through 2010; HC1013-06-F2057, with 3 option years awarded July 2005 and runs through 2008; HC1013-06-F2050, with 4 option years awarded July 2005 and runs through 2008; and HC1013-06-F2051 with 5 option years awarded June 2005 and runs through 2010.
(6) Contracts awarded to Harris Corporation/Radio Frequency Communications Division, Melbourne, Florida for AN/PRC-117G radios and Phantom Products for Assault Zone Lighting, Rockledge, Florida.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE PHYSICAL SECURITY SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$57,568	$84,566	$57,728	$61,286	$56,356	$57,434	$58,546

Description:

FY2007 funding total includes $10.68M in GWOT supplemental.
FY2008 funding total includes $3.7M in Congressional adds and $8.5M in GWOT supplemental funding.
FY2008 funding totals do not include $100.5M in FY2008 GWOT requirements still pending Congressional consideration.

The Air Force Physical Security Systems program procures and installs integrated base defense physical security equipment to protect aircraft, missiles, nuclear weapons and other critical war fighting resources on 213 installations worldwide to include active Air Force (AF), AF Reserve and Air National Guard installations. The AF has a continuing need to upgrade and modernize existing physical security systems presently installed at fixed sites worldwide. These systems must be replaced on average every five years, depending on environmental conditions, type of sensor and availability of spare parts due to technical obsolescence. The program funds modern security equipment such as, but not limited to, ground surveillance radar systems, explosive detection systems, fence sensor systems, access control systems and unmanned ground/airborne surveillance and detection systems. The modern equipment replaces older generation intrusion detection systems at fixed sites and provides sensors for use on AF flight lines. It will respond to transient security threats and provide tactical sensors, communications equipment, command & control, physical delay and/or denial devices, engineering, installation, allied support, modeling and simulation, and training. This program also directly supports the Homeland Defense elements of anti terrorism, counter-terrorism, critical infrastructure protection, intelligence and consequence management. Other physical security delay/denial equipment funded in this program include remotely operated mobile sensor systems (to include the associated unmanned air and/or ground vehicle platforms); directed energy weapons for force protection applications; non lethal weapons and remotely operated weapons mounting and fire control systems.

1. TACTICAL SECURITY SYSTEMS: Tactical Security Systems provide integrated electronic security systems designed to provide perimeter base defense worldwide. Tactical Security Systems employ sensors, assessment devices, alarm monitors, data communications links and power equipment to form a continuous electronic security envelope around critical resources, improving the ability of Air Force Security Forces to see, understand and act first to defeat our enemies. Designs are modular and tailored to support any requirement and including line and wide-area detection and assessment systems such as ground

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM

Description (continued):

surveillance radar and unmanned ground/airborne surveillance systems. An on-going Pre-Planned Product Improvement Program provides for the sustainment of the system. The system also has a robust technology insertion effort to capture latest physical security advancements.

a. AIR BASE GROUND DEFENSE (ABD): FY09 funding support the Air Force tactical sensor program which addresses air base defense requirements. for security forces to detect intrusions and assess targets. Tactical Automated Security System (TASS) equipment is required to provide robust force protection capabilities worldwide. TASS kit procurement addresses squad, boundary, headquarters starter kit, configurations and 1000 meter kit each containing varying numbers of active, passive and telescope infrared and breakwire sensors as well as communications equipment, radios, assessment devices, training and associated support equipment. Expeditionary Flightline Security supporting a host of platforms to include aircraft, ISR assets, and critical infrastructure.

b. ANTI-TERRORISM: The antiterrorism program is designed to protect and defend service members, civilian employees, family members, facilities and other Air Force resources in all locations and situations. Antiterrorism funds procure TASS intrusion detection systems to protect resources that have been evaluated as potentially soft targets for terrorist attacks.

c. FLIGHT LINE SECURITY: No FY09 funding requested.

2. STRATEGIC SECURITY SYSTEMS: Strategic Security Systems acquire, test and install exterior and interior intrusion detection, assessment and alarm reporting systems for Air Force, Air National Guard and Air Force Reserve installations. Installations and upgrades include engineering, interior/exterior intrusion detection systems, annunciators, access control systems with accompanying communications upgrades, Video Storage Systems, allied support, initial training, training equipment, interim contractor support and ancillary equipment items. Integrated Base Defense upgrade technologies include, but are not limited to, ground surveillance radar systems, explosive detection systems, fence/ground sensor technologies, unmanned ground/aerial day/night surveillance and detection systems and remotely operated weapon systems. Weapon Storage Areas (WSA) are located at Nellis AFB, NV, Malmstrom AFB, MT, Barksdale AFB, LA, F.E. Warren AFB, WY, Kirtland Underground Munitions Maintenance and Storage Complex, Kirtland AFB, NM, Minot AFB, ND, and Whiteman AFB, MO.

a. AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: FY09 funds procure intrusion detection sensors, alarm annunciators, CCTV cameras and related security system equipment needed to upgrade and/or replace unsupportable, aging and obsolete ALCM security command control

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM

Description (continued):

systems/equipment. FY09 continues funding the installation and integration of the perimeter and exterior/interior security system at Weapon Storage Areas (WSAs). Funds provide security upgrade planning at various other WSAs and priority AF locations.

b. FIXED-SITE SECURITY: FY09 funds support Fixed-Site Security projects for weapons in storage to meet long-term physical security requirements of key AF assets at permanent AF installations worldwide which require permanently installed intrusion detection systems and access control systems. Technology improvements include extended range detection and assessment, automated entry control, large vehicle screening, integrated command, control and display, man-portable surveillance and target radar systems and delay/denial technologies. New technologies continue to improve force protection capabilities while at the same time reducing security forces manpower gaps.

c. MINUTEMAN SQUADRON SECURITY: FY09 funds procure intrusion detection sensors, alarm annunciators and CCTV cameras required to maintain and replace critical Minuteman warhead storage security command and control subsystems that can no longer be supported.

3. NON-STRATEGIC SECURITY SYSTEMS: Flight line security equipment reduces risk to Air Force personnel, weapon systems and facilities on base flight lines. DoD downsizing, reductions in forward basing and aircraft technology advances elevated Air Force weapon systems into increasingly valuable national power projection capabilities. However, the security afforded most Air Force aircraft and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment and state-of-the-art technology.

a. BASE PHYSICAL SECURITY SYSTEMS (BPSS): Line previously named "Integrated Base Defense Security Systems". Base physical security systems reduces the risk to Air Force personnel, weapon systems and facilities. DoD downsizing, reductions in forward basing and aircraft technology advances evolved Air Force weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most Air Force aircraft and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment and state-of-the-art technology. Current Integrated Base Defense Security System contracts enable the Air Force to meet both base physical security system and flightline security requirements in accordance with the Aerospace Expeditionary Force concept. FY09 funding procures and installs equipment including a variety of sensors, unmanned air and/or ground vehicles, assessment devices and communication equipment to meet a broad range of intrusion detection needs (mobile, semi-permanent/expeditionary and fixed, perimeter, tactical and flightline).

b. FIXED-SITE SECURITY: Fixed site security projects support long-term physical security requirements of key AF assets at permanent AF

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE PHYSICAL SECURITY SYSTEM

Description (continued):

installations worldwide which require permanently installed intrusion detection systems and access control systems. Detection and access control systems integrate alarms, sensors, entry control functions and annunciators into consolidated packages in support of priority resource protection. This effort funds integration of Transformational Technology Insertion (TTI), both long- and short-range ground based radar, and wide-area thermal imagers into one common operating picture.

4. OTHER SECURITY SYSTEMS:

a. VISUAL DETECTION AND ASSESSMENT SYSTEM (VDAS): No FY09 funding requested

b. JOINT SERVICE INTERIOR INTRUSION DETECTION SYSTEM: No FY09 funding requested.

c. ADVANCED VIDEO SURVEILLANCE EQUIPMENT: No FY09 funding requested.

d. FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM: No FY09 funding requested.

e. IBDSS INITIAL MOODY AFB: No FY09 funding requested.

f. SCHRIEVER AFB GROUND SPACE ELECTRONIC SECURITY SYSTEM REPLACEMENT: No FY09 funding requested.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE PHYSICAL SECURITY SYSTEM

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TACTICAL SECURITY SYSTEMS					{$14,920}		{$20,935}		{$13,145}
AIR BASE GROUND DEFENSE (1-2)	A				$2,337		$12,050		$5,005
ANTI-TERRORISM (3)	A				$9,250		$8,885		$8,140
FLIGHT LINE SECURITY	A				$3,333				
STRATEGIC SECURITY SYSTEMS					{$28,940}		{$32,039}		{$22,780}
AIR LAUNCH CRUISE MISSILE SECURITY SYSTEMS	A				$1,415		$1,461		$1,499
FIXED-SITE SECURITY	A				$26,957		$29,926		$20,617
MINUTEMAN SQUADRON SECURITY	A				$568		$652		$664
NON-STRATEGIC SECURITY SYSTEMS									
BASE PHYSICAL SECURITY SYSTEMS (A.K.A. IBDSS)	A						$10,040		$12,803
FIXED-SITE SECURITY (3)	A				$5,078		$18,000		$9,000
OTHER SECURITY SYSTEMS					{$8,630}		{$3,552}		
VISUAL DETECTION AND ASSESSMENT SYSTEM	A				$2,286				
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS	A				$344		$352		
ADVANCED VIDEO SURVEILLANCE EQUIPMENT	A				$1,000				

	P-1 ITEM NO		PAGE NO:		Page 1 of 2
	33		98		

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR FORCE PHYSICAL SECURITY SYSTEM

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM	A				$2,000				
IBDSS INITIAL MOODY AFB (4)	A				$1,600		$1,600		
SCHRIEVER AFB GROUND SPACE ELEC SECURITY SYSTEM REPLACEMENT (5)	A				$1,400		$1,600		
TOTALS:					$57,568		$84,566		$57,728

Remarks:

Cost information is in thousands of dollars.

(1) FY08 funding includes $0.5M Congressional Add for AVT234 - Target Motion Cueing (TMC) Integration Kits.
(2) FY08 funding includes $8.5M GWOT supplement for BDOC-T and CROWS.
(3) FY07 funding includes $10.68M GWOT Supplement for Vehicle Explosive Detection System (VEDS) and Miniature Unattended Ground Imager (MUGI)
(4) FY08 funding includes $1.6M Congressional Add for IBDSS for Moody AFB, GA
(5) FY08 funding includes $1.6M Congressional Add for Ground Space Electronic Security System, Schriever AFB, CO

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)									
						DATE: FEBRUARY 2008			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM					
ITEM NAME/ FISCAL YEAR	**QTY.**	**UNIT COST**	**LOCATION OF PCO**	**CONTRACT METHOD & TYPE**	**CONTRACTOR AND LOCATION**	**AWD. DATE**	**DATE FIRST DEL.**	**SPECS AVAIL NOW**	**DATE REV. AVAIL**
TACTICAL SECURITY SYSTEMS									
AIR BASE GROUND DEFENSE									
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-07	May-07		
FY2008(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4,6,8)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-09	Mar-09	Yes	
ANTI-TERRORISM									
FY2007(1-7)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-07	May-07		
FY2008(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4,6,8)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-09	Mar-09	Yes	
FLIGHT LINE SECURITY									
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-07	May-07		
STRATEGIC SECURITY SYSTEMS									
AIR LAUNCH CRUISE MISSILE SECURITY SYSTEMS									
	P-1 ITEM NO 33		**PAGE NO:** 100			Page 1 of 5			

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE PHYSICAL SECURITY SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1-4,6)			11WING	DO/CPAF	MULTIPLE	Jan-07	Mar-07		
FY2008(1-4,6)			11WING	DO/CPAF	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4,6)			11WING	DO/CPAF	MULTIPLE	Feb-09	Mar-09	Yes	
FIXED-SITE SECURITY									
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-07	May-07		
FY2008(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-08	May-08	Yes	
FY2009(1-4,6,8)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-09	May-09	Yes	
MINUTEMAN SQUADRON SECURITY									
FY2007(1-4,6)			11WING	DO/CPAF	MULTIPLE	Jan-07	Mar-07		
FY2008(1-4,6)			11WING	DO/CPAF	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4,6)			11WING	DO/CPAF	MULTIPLE	Feb-09	Mar-09	Yes	
NON-STRATEGIC SECURITY SYSTEMS									
BASE PHYSICAL SECURITY SYSTEMS (A.K.A. IBDSS)									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR FORCE PHYSICAL SECURITY SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2008(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4,6,8)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-09	Mar-09	Yes	
FIXED-SITE SECURITY									
FY2007(1-7)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-07	May-07		
FY2008(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-08	May-08	Yes	
FY2009(1-4,6,9)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-09	May-09	Yes	
OTHER SECURITY SYSTEMS									
VISUAL DETECTION AND ASSESSMENT SYSTEM									
FY2007(1-2,10)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-07		
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS									
FY2007(1-2,10)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-07		
FY2008(1-2,10)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-08	Mar-08	Yes	
ADVANCED VIDEO SURVEILLANCE EQUIPMENT									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE PHYSICAL SECURITY SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(9)			ANGRC	SS/FFP	AVANTOR SYSTEMS CORPORATION/ ORLANDO, FL	Apr-07	Jul-07		
FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM									
FY2007(9)			HQ AIA	SS/OTH	ITAC/ RESTON, VA	Mar-07	Jul-07		
IBDSS INITIAL MOODY AFB									
FY2007(9)			HQ ACC	C/OTH	UNKNOWN	Feb-08	Mar-08	Yes	
FY2008			HQ ACC	OPT/CPAF	UNKNOWN	Jun-08	Jul-08	Yes	
SCHRIEVER AFB GROUND SPACE ELEC SECURITY SYSTEM REPLACEMENT									
FY2007(9)			AFSPC/SMC	OTH/OTH	SI INTERNATIONAL INC/ COLORADO, SPRINGS, CO	Apr-07	Aug-07		
FY2008			AFSPC/SMC	OPT/CPAF	SI INTERNATIONAL INC/ COLORADO, SPRINGS, CO	Feb-08	Jun-08	Yes	

Remarks:

(1) Unit costs vary due to various types and quantities of physical security equipment procured for each site.
(2) Award/delivery dates represent the date of first award/delivery.
(3) Locations of PCO varies from AFMC/ESC; AFMC/46TW; GSA, Ft Worth TX; Department of Energy/Sandia National Laboratories, Albuquerque NM;

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

USAFE Europe; and AFSPC/SMC.
(4) Multiple contract methods and types. AFMC/ESC Prime Contractors include: ABACUS Technology Corp., MD; ECSI International, Inc., NJ; Northrop Grumman Space & Missile Systems Corp., CA; and L-3 Communications Government Services, Inc., VA.
(5) Contract Type FFP W/OPT for FY06 through FY08 there are multiple Basic Contracts: F19628-03-D-0012, F19628-03-D-0011, F19628-03-D-0021 and F19628-03-D-0019.
(6) Other typical contractors include BAE, Eglin AFB, FL; Diebold, Northridge, CA; Dept of Energy/Sandia Natl Lab, NM.
(7) FY07 GWOT Contracts: HQ USAFE awarded Vehicle Explosived Detection System (VEDS) contract awarded to Rapiscan Systems, Hawthorne, CA. Miniature Unattended Ground Imager (MUGI) contract awarded to Seraphim Optronika LTD, Yokneam, Israel.
(8) Contract Type FFP W/OPT for FY09 Basic Contract TBD.
(9) Contract information TBD.
(10) Task Order/Labor Hour contracts to Kylmar, LTD, Andover, UK. Time & Material contracts to Dept of Energy/Sandia Natl Lab, NM & 46TW. Delivery order contract to Vindicator Technologies, Austin, TX.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMBAT TRAINING RANGES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$58,346	$91,203	$55,315	$32,160	$32,721	$33,781	$34,778

Description:

FY2008 funding includes $58.4M in Congressional Adds.
FY2008 funding totals do not include $10.0M FY2008 GWOT requirements still pending Congressional consideration.

This program procures electronic telecommunication and instrumentation equipment and systems for training ranges worldwide. These systems provide real-time monitoring and control of aircrew air-to-air, air-to-ground, ground-to-air, and electronic warfare training along with the ability to record and play back events for aircrew debriefing and analysis. This program also procures weapons scoring systems and advanced threat simulator systems to satisfy Electronic Warfare (EW) training capability requirements. This P-1 line also procures aircraft, EW and weapons pods, and ground interfaces. This program ensures software interoperability among service ranges, the encryption of range/aircraft data links, and associated communication devices.

1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES: FY09 funding will acquire the P5 Combat Training System (P5CTS) that provides both "rangeless" and tethered capabilities. "Rangeless" training capability provides the instrumentation to conduct air combat training in any available airspace worldwide and eliminates the need to fly over highly instrumented ground ranges. P5CTS will also include the integration of GREEN FLAG capabilities (previously known as Air Warrior) and the integration of advanced range instrumentation standards and datalink encryption. GREEN FLAG provides close air combat support training for ground forces (US Army, USMC). FY09 funding procures the production and fielding of the P5CTS as well as range upgrades for Nellis.

2. ACTS RANGE IMPROVEMENTS: Joint Advanced Weapon Scoring System (JAWSS): The JAWSS program consists of Navy-developed scoring systems, which upgrade the weapon (bombing and gunnery), and laser spot scoring on ranges. The upgrades provide multiple new capabilities, to include scoring of day or night operations, production of a data stream with immediate displays, and results transmission to the pilot providing immediate feedback previously unavailable to aircrew. Other provisions include the capability to monitor and control an extended, realistic target environment for simulated ordnance delivery and aircrew training for airborne laser designators. FY09 funding procures and fields these systems.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: COMBAT TRAINING RANGES

Description (continued):

3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES:

a. JOINT THREAT EMITTER (JTE): This Air Force program provides state-of-the-art surface-to-air missile (SAM) threat simulation incorporating commercial technology into a modular architecture to maximize diverse capabilities and configurations for joint aircrew training. A transportable single reprogrammable unit provides multiple (up to 3) threat presentations, realistic aircraft tracking simulation, and video feedback debrief functions. JTE is designed to reduce range operations and maintenance requirements up over of legacy systems.

b. MINIATURE MULTIPLE THREAT EMITTER SYS-M3P: FY09 funding modernizes the Miniature Multiple Unmanned Threat Emitter System.

c. TURBO THREAT REACTION ANALYSIS INDICATOR SYSTEM (TRAINS): FY09 funding procures Turbo Trains upgrades to provide effective countermeasure analysis feedback for the warfighters. This feedback is essential to the effectiveness of in-flight Electronic Counter Measures (ECM) performance for combat aircraft.

d. UNMANNED MODULAR THREAT EMITTER (UMTE) MODERNIZATION: No FY09 funding requested.

e. JOINT THREAT EMITTER, MOUNTAIN HOME AFB: No FY09 funding requested.

4. JOINT NATIONAL TRAINING CAPABILITY: The Air Force is procuring opposing forces simulator systems for the Joint National Training Capability (JNTC) to support joint and multiservice requirements to enhance training realism. End items include:

a. BATTLEFIELD COMMUNICATIONS SIMULATION SYSTEM (BCSS). Previously called "Battlefield Voice Simulation System". Upgraded Navy designed units for communications intelligence training will be integrated with a signal generator/recorder software and firmware system to provide scenario control and selection of complex modulation. BCSS will also include audio modulation, which will provide seven (7) different male/female voice languages as well as three (3) speeds of Morse Code. Complex modulation includes thirteen (13) different waveforms and can employ frequency hopping. The system is capable of real time playback based on the running scenario and can reproduce any recorded RF signal.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
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Description (continued):

b. DIRECTION FINDING/SIGNALS INTELLIGENCE/ELECTRONIC INTELLIGENCE/ COMMUNICATIONS INTELLIGENCE COLLECTION VANS: No FY09 funding requested.

c. MULTI-SPECTRAL THREAT SYSTEMS: Navy initiated effort that is capable of stimulating multiple intelligence, surveillance, reconnaissance (ISR) and targeting sensors in the joint environment. The Multi-Spectral Threat System provides instrumented targets for realistic presentations in the RF, visual, IR/thermal & RCS signature spectrums. Multiple mobile system(s) incorporate exploitable C2 architectures, aircrew feedback, debrief functions, and day/night training. Emulators of the following systems are planned for acquisition: (a) SA-6 Gainful TTR, (b) ZSU-23 Shilka, (c) 2S6 Tunguska. (d) SA-8 Gecko TELAR, (e) SA-15 Gauntlet TLAR/HQ-17, (f) SA-10 Grumble/HQ-10/15, (g) ROLAND 2, (h) SA-17, (i) SA-20 and (j) LY-60 and TY-90.

d. OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS INCLUDE:

(1). C3I BATTLE MANAGEMENT SYSTEM (BMS): No FY09 funding requested.

(2). COMMAND AND CONTROL (C2) Network: No FY09 funding requested.

(3). INDEPENDENT COMMERCIALLY COMPATIBLE CELLULAR NETWORK SYSTEM (IC3NS). (Previously MNCI-TR). No FY09 funding requested.

e. JOINT THREAT EMITTER (JTE): JNTC FY-09/10 procurement plan is for 1 Block 0 Threat Emitter Unit (TEU) per year. (See section 3.a. for description).

f. CONCEALMENT,COUNTERMEASURES, AND DECOY (CCD) SYSTEMS: No FY09 funding requested

g. MAN-PORTABLE AIR DEFENSE (MANPAD) SURFACE-TO-AIR MISSILE (SAM) SIMULATOR SYSTEM: No FY09 funding requested

h. URBAN TARGET COMPLEX: No FY09 funding requested

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMBAT TRAINING RANGES

Description (continued):

i. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED): No FY09 funds requested.

j. MARITIME THREAT SYSTEMS: FY09 funds provide equipment needed to challenge Navy littoral operations in support of Joint and combined arms training and exercises. Maritime Threat systems include coastal cruise missile threat, reactive threats and small boat & diesel submarine attacks. Also supports Naval airborne, surface, and shallow-water mine countermeasures systems.

k. GPS DENIED ENVIRONMENT: No FY09 funding requested.

5. RED FLAG AK-PARC UPGRADES: No FY09 funding requested.

6. NEVADA TEST AND TRAINING RANGE (NTTR) and UTAH TEST AND TRAINING RANGE (UTTR) IMPROVEMENTS AND MODERNIZATION: These funds are for procurement of equipment and materials to modernize and improve NTTR and UTTR. Projects include Link 16 infrastructure and Telemetry (TM) collection components, repeaters and receivers, High Capacity Networks and Urban Target Instrumentation at both ranges. Additional efforts include Time Space Position Information (TSPI) improvements for Cruise Missiles and Weapons System Evaluation Program, required safety of flight instrumentation systems and Flight Termination Systems for normal and large footprint weapons, and modernization and improvement of threat and scoring systems. Range improvements will provide the warfighter with a current, state of the art, training arena and force enabler allowing them to train as they will fight prior to deployment.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMBAT TRAINING RANGES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT TRAINING RANGES									
1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES					{$4,902}		{$4,073}		{$7,163}
P5 COMBAT TRAINING SYSTEM UPGRADES	A				$4,902		$4,073		$7,163
2. AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS					{$3,453}		{$35,701}		{$3,841}
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)	A				$3,453		$3,701		$3,841
COMBAT TRAINING RANGE ENHANCEMENTS (1)	A						$32,000		
3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES					{$20,184}		{$18,619}		{$12,449}
a. JOINT THREAT EMITTER (2)	A				$9,488		$9,503		$9,656
b. MINIATURE MULTIPLE THREAT EMITTER SYSTEM-M3P	A				$1,756		$1,837		$1,890
c. TURBO TRAINS	A				$840		$879		$903
d. UMTE MODERNIZATION (3)	A				$2,600		$2,400		
e. JOINT THREAT EMITTER MOUNTAIN HOME	A				$5,500		$4,000		
4. JOINT NATIONAL TRAINING CAPABILITY (JNTC)					{$21,707}		{$12,810}		{$10,340}
a. BATTLEFIELD COMMUNICATIONS SIMULATION SYSTEM (BCSS)	A								$800

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
b. DIRECTION FINDING/SIGNALS INTEL/ELECTRONIC INTEL/COMM INTEL COLLECTION VANS	A				$2,000		$1,500		
c. MULTI-SPECTRAL THREAT SYSTEM	A				$6,307		$7,250		$5,100
d. OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS									
d.1. C3I BATTLE MANAGEMENT SYSTEM (BMS)	A				$350				
d.2. COMMAND AND CONTROL (C2) NETWORK	A				$350				
d.3. INDEPENDENT COMMERCIALLY COMPATIBLE CELLULAR NETWORK SYSTEM (IC3NS)	A				$1,500		$1,900		
e. JOINT THREAT EMITTER (JTE)	A				$4,600				$3,740
f. CONCEALMENT, COUNTERMEASURES, AND DECOY (CCD) SYSTEMS	A				$900				
g. MANPAD SURFACE-TO-AIR MISSILE (SAM) SIMULATOR SYSTEM	A				$3,600				
h. URBAN TARGET COMPLEX	A				$1,000		$1,360		
i. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED)	A				$250				
j. MARITIME THREAT SYSTEMS	A				$600		$800		$700
k. GPS DENIED ENVIRONMENT	A				$250				
5. RED FLAG AK-PARC UPGRADES									

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
RED FLAG AK-PARC UPGRADES (4)	A				$8,100		$20,000		
6. NTTR AND UTTR MODERIZATION AND IMPROVEMENTS									
NTTR AND UTTR MODERIZATION AND IMPROVEMENTS	A								$21,522
TOTALS:					$58,346		$91,203		$55,315

Remarks:

Cost information is in thousands of dollars.

(1) FY08 funding includes $32.0M in Congressional adds for "Training Range Enhancements".
(2) FY08 funding includes $4.0M in Congressional adds for "Air National Guard (ANG) Joint Threat Emitter (JTE) Savannah Combat Readiness Training Centers (CRTC)".
(3) FY08 funding includes $2.4M in Congressional adds for "Unmanned Threat Emitter Modernization".
(4) FY08 funding includes $20.0M in Congressional adds for "Red Flag PARC Upgrades".

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
COMBAT TRAINING RANGES									
1. 1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES									
P5 COMBAT TRAINING SYSTEM UPGRADES									
FY2007(1)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/ SAN DIEGO, CA	Mar-07	Mar-08		
FY2008(1)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/ SAN DIEGO, CA	Mar-08	Mar-09	Yes	
FY2009(1)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/ SAN DIEGO, CA	Mar-09	Mar-10	Yes	
2. 2. AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS									
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)									
FY2007(2)			HQ ACC	MIPR/OTH	NAVY/ MULTIPLE	Mar-07	Nov-07		
FY2008(2)			HQ ACC	MIPR/OTH	NAVY/ MULTIPLE	Mar-08	Nov-08	Yes	
FY2009(2)			HQ ACC	MIPR/OTH	NAVY/ MULTIPLE	Jan-09	Nov-09	Yes	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMBAT TRAINING RANGES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
COMBAT TRAINING RANGE ENHANCEMENTS									
FY2008			AFMC/SMC	C/FP	UNKNOWN	Mar-08	Mar-09	Yes	
3. 3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES(3)									
a. JOINT THREAT EMITTER									
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/ DAYTON, OH	May-07	Dec-08		
FY2008(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/ DAYTON, OH	Mar-08	Oct-09	Yes	
FY2009(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/ DAYTON, OH	Mar-09	Sep-10	Yes	
b. MINIATURE MULTIPLE THREAT EMITTER SYSTEM-M3P									
FY2007(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-07	Dec-08		
FY2008(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-08	Feb-09	Yes	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
COMBAT TRAINING RANGES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-09	Feb-10	Yes	
c. TURBO TRAINS									
FY2007(6)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/ COLORADO SPRINGS, CO	Apr-07	Nov-07		
FY2008(6)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/ COLORADO SPRINGS, CO	Apr-08	Nov-08	Yes	
FY2009(6)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/ COLORADO SPRINGS, CO	Apr-09	Nov-10	Yes	
d. UMTE MODERNIZATION									
FY2007			AFMC/OO-ALC	C/CPFF	DRS/ BUFFALO, NY	Nov-06	Dec-07		
FY2008			AFMC/OO-ALC	C/CPFF	UNKNOWN	Mar-08	Mar-08	Yes	
e. JOINT THREAT EMITTER MOUNTAIN HOME									
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/ DAYTON, OH	May-07	Dec-09		
FY2008			AFMC/OO-ALC	SS/FFP	MTC/ DAYTON, OH/ / / NORTHROP-GRUMMAN/ BUFFALO, NY	Mar-08	Mar-08	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)						DATE: FEBRUARY 2008			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
ITEM NAME/ FISCAL YEAR	**QTY.**	**UNIT COST**	**LOCATION OF PCO**	**CONTRACT METHOD & TYPE**	**CONTRACTOR AND LOCATION**	**AWD. DATE**	**DATE FIRST DEL.**	**SPECS AVAIL NOW**	**DATE REV. AVAIL**
4. 4. JOINT NATIONAL TRAINING CAPABILITY (JNTC)									
a. BATTLEFIELD COMMUNICATIONS SIMULATION SYSTEM (BCSS)									
FY2009(7)			11WING	OPT/FFP W/OPT	AEROFLEXRPATINA,CA/ / SCR/ PATUXANT RIVER,MD	Jan-09	Jun-09	Yes	
b. DIRECTION FINDING/SIGNALS INTEL/ELECTRONIC INTEL/COMM INTEL COLLECTION VANS									
FY2007(8)			11WING	MIPR/FFP	ARMY/ MULTIPLE	Jan-07	Jun-08		
FY2008(8)			11WING	MIPR/FFP	ARMY/ MULTIPLE	Jan-08	Jun-09		
c. MULTI-SPECTRAL THREAT SYSTEM									
FY2007(9)			11WING	MIPR/FFP	NAVY/ MULTIPLE	Jan-07	Jan-08		
FY2008(9)			11WING	MIPR/FFP	NAVY/ MULTIPLE	Jan-08	Jan-09		
FY2009(9)			11WING	MIPR/FFP	NAVY/ MULTIPLE	Mar-09	Jan-10	Yes	

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: COMBAT TRAINING RANGES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
d. OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS									
d.1. C3I BATTLE MANAGEMENT SYSTEM (BMS)									
FY2007(10)			11WING	MIPR/FFP	ARMY/ MULTIPLE	Jan-07	Jan-09		
d.2. COMMAND AND CONTROL (C2) NETWORK									
FY2007			11WING	MIPR/FFP	ARMY/ MULTIPLE	Jan-07	Jan-09		
d.3. INDEPENDENT COMMERCIALLY COMPATIBLE CELLULAR NETWORK SYSTEM (IC3NS)									
FY2007			11WING	MIPR/FFP	ARMY/ TSMO/ TLC/ HUNTSVILLE, AL / MELBOURNE, FL	Jul-07	Nov-07		
FY2008			11WING	MIPR/FFP	ARMY/ TSMO/ TLC/ HUNTSVILLE, AL / MELBOURNE, FL	Jan-08	Jun-08		
e. JOINT THREAT EMITTER (JTE)									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMBAT TRAINING RANGES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MTC/ DAYTON, OH/ / / NORTHROP-GRUMMAN/ BUFFALO, NY	Apr-07	Oct-08		
FY2009(4)			AFMC/OO-ALC	OPT/FFP	MTC/ DAYTON, OH/ / / NORTHROP-GRUMMAN/ BUFFALO, NY	Jan-09	Jan-11	Yes	
f. CONCEALMENT, COUNTERMEASURES, AND DECOY (CCD) SYSTEMS									
FY2007(11)			11WING	MIPR/FFP	ARMY/ MULTIPLE/ WHITE SANDS, NM	Oct-06	Mar-07		
g. MANPAD SURFACE-TO-AIR MISSILE (SAM) SIMULATOR SYSTEM									
FY2007(12)			HQ AFSOC	C/CPIF	MULTIPLE	Mar-07	Jun-08		
h. URBAN TARGET COMPLEX									
FY2007			11WING	MIPR/FFP	AIR FORCE/ 98 RANGE WING/ NELLIS AFB, NV	Jan-07	Jun-08		
FY2008			11WING	MIPR/FFP	AIR FORCE/ 98 RANGE WING/ NELLIS AFB, NV	Jan-08	Jun-08		
i. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED)									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007			11WING	MIPR/CPFF	ARMY/ ARMY/ UNITECH SOLUTIONS/ ORLANDO, FL	Mar-07	Jan-08		
j. MARITIME THREAT SYSTEMS									
FY2007			11WING	MIPR/FFP	NAVY/ CORNICTEC/ ELLICOTT, MD / / ARGON ST/ FAIRFAX, VA	Jan-07	Nov-07		
FY2008			11WING	MIPR/FFP	NAVY/ CORNICTEC/ ELLICOTT, MD / / ARGON ST/ FAIRFAX, VA	Jan-08	Jun-08		
FY2009			11WING	MIPR/FFP	NAVY/ CORNICTEC/ ELLICOTT, MD / / ARGON ST/ FAIRFAX, VA	Jan-09	Jun-09	Yes	
k. GPS DENIED ENVIRONMENT									
FY2007			11WING	MIPR/FFP	NAVY/ ATSO/ PT MUGU, CA / / TMC/ LAS CRUCES, NM	Jan-07	Jun-08		
l. ADVANCED CAPABILITY PODS									
6. 5. RED FLAG AK-PARC UPGRADES									
RED FLAG AK-PARC UPGRADES									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(13)			HQ PACAF	MIPR/FFP	NAVY/ MULTIPLE	Mar-07	Sep-07		
FY2008			HQ PACAF	MIPR/OTH/FFP	NAVY/ UNKNOWN	Mar-08	Mar-08	Yes	
7. 6. NTTR AND UTTR MODERIZATION AND IMPROVEMENTS									
NTTR AND UTTR MODERIZATION AND IMPROVEMENTS									
FY2009			HQ ACC	C/FFP	UNKNOWN	Apr-09	May-10	Yes	

Remarks:

Quantity/unit costs vary because of different types/configurations of equipment being procured. Multiple award delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.

(1) P5CTS: The basic contract (with 10 year option) was awarded to Cubic Defense Systems, San Diego, CA on 3 Jun 03. DRS Technologies, Ft Walton Beach, FL is a subcontractor.
(2) Joint Advanced Weapons Scoring System (JAWSS) procured by Naval Warfare Assessment Station, Corona, CA, and Naval Air Warfare Center, Point Mugu, CA.
(3) Electronic Combat Threats Systems Upgrades includes multiple contract methods and types, to include options to existing contracts, sole source contracts and MIPRs. Representative contractors include Harris Corporation, Melbourne, FL; Sierra Technologies, Inc., Buffalo, NY; and EW Systems, Colorado Springs, CO.
(4) JTE: The basic 2-year contract awarded 19 Aug 02 to Modern Technologies Corporation, Dayton, OH. JTE has four two-year options - 10 years total.
(5) Mini-MUTES: Basic contract was awarded to Harris Corporation, Melbourne, FL on 13 Jul 1998.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(6) Turbo-Threat Reaction Analysis Indicator System (Turbo-TRAINS) basic contract (with 10 year option) awarded to E.W. Systems, Colorado Springs, CO, April 2002.
(7) BVSS (Now called BCSS for Battlefield Communications Simulation System). FY06 contract type is "FP W/Opt". Contract No. N00421-04-0069 (BAE Systems) w/4 option years. Awarded May 2004.
(8) IO vans: Multiple contractors include: EWA GSI - San Antonio, TX; L3/Titan - Melbourne, FL; Argon ST - Camarillo, CA
(9) Multi-spectral: Multiple contractors include: DRS - Buffalo, NY; ATSO - Pt Mugu, CA; Argon ST - Camarillo, CA
(10) BMS: Multiple Army contractors include: Ericsson Microwave Systems, Gothenburg, Sweden; General Dynamics AIS Div, Tempe, AZ
(11) CCD: Multiple contractors include: Computer Cabling of GA, Myrna, GA; The Presidio Corporation, Lanham, MD; Devona Bell, Carol Stream, IL; Alcatel USA Marketing, Longview, TX; Vbrick, Wallingford, CT; Wyandotte Net Tel, Wyandotte, OK; Agilent Technologies Incorporated, Palo Alto, CA; and General Dynamics Government Systems Corporation, Needham, MA.
(12) MANPAD sim: Multiple potential contractors (to include, but not limited to): Titan Dynamics - Marshall, TX; L3/Melbourne, FL; DRS - Buffalo, NY; CCM - White Sands, NM; Northrop-Grumman - Buffalo, NY
(13) Multiple PCOs include HQ PACAF, AFMC/OO-ALC, Hill AFB, UT, and Naval Warfare Center, China Lake; multiple contract methods/types include FFP, sole source, Time & Materials, MIPR, etc.; contract vehicles include Design and Engineering Support Program II (DESP II), FA8222-05-D-0001 Task Order 33; other contractors TBD.
(14) C2/C3 BATTLEMANAGE SYSTEM: Multiple contractors include TSMO, Huntsville, AL; General Dynamics, Tempe, AZ; and SAAB, Sweden

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$0	$10,628	$0	$72,775	$21,569	$36,306	$31,971

Description:

National Security Strategy (NSS) - 2006 states that: "safe, credible, and reliable nuclear forces continue to play a critical role. Deterrence is being strengthened by developing a New Triad composed of offensive strike systems (both nuclear and improved conventional capabilities); active and passive defenses, including missile defenses; and a responsive infrastructure, all bound together by enhanced command and control, planning, and intelligence systems." The US must maintain sufficient nuclear forces to deter any foreign leadership with access to strategic nuclear forces from acting against US vital national interests. This strategy, along with Department of Defense and Air Force policies, dictates that survivable communications is integral to US strategic deterrence since it provides measurable assured connectivity. US forces need systems that ensure reliable, secure and responsive communications are maintained between the President, the Secretary of Defense and US nuclear execution forces.

The Minimum Essential Emergency Communications Network (MEECN) systems provide that assured communications connectivity between the President and the strategic nuclear forces in stressed environments.

GROUND ELEMENT MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN) SYSTEM (GEMS): Development funding is in Program Element 0303131F, Minimum Essential Emergency Communications Network (MEECN). No FY09 funding requested.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK													
GEMS TERMINAL	B									$10,628			
TOTALS:										$10,628			

Remarks:
Total Cost information is in thousands of dollars.

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P-1 NOMENCLATURE:
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK									
GEMS TERMINAL									
FY2008(1)			AFMC/ESC	OPT/FFP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	May-08	Aug-08	No	Apr-08

Remarks:

(1) Base contract, Rockwell Collins, #FA872605-D-0003, awarded 16 June 2005

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** C3 COUNTERMEASURES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$4,469	$7,371	$7,754	$8,295	$8,419	$8,588	$8,755

Description:

U.S. military forces operate in an information age where the need for precise, instantaneous intelligence is increasing and expanding across the entire spectrum of military operations. However, this increasing technical sophistication leads to a dependency on technology that, in turn, may represent potentially crippling vulnerabilities. The Air Force (AF) addresses these vulnerabilities through Information Operations (IO). IO includes those actions taken to gain, exploit, defend, and attack information and information systems. Information Warfare (IW) consists of actions conducted to attack an adversary's information and information systems while defending one's own.

Information warfare includes the integrated application of Electronic Warfare (EW), Psychological Operations (PSYOP), Military Deception (MILDEC), physical attack, Computer Network Attack (CNA), counterintelligence, counterdeception, Computer Network Defense (CND), counterpropaganda, Information Assurance (IA), and Operations Security (OPSEC). The Air Intelligence Agency (AIA), Air Force Information Operations Center (formerly known as the Air Force Warfare Center), 67th Network Warfare Wing (formerly known as the 67th Information Operations Wing), and Joint Information Operations Center (JIOC), all located in San Antonio, TX, are responsible for IW and Command and Control Warfare (C2W) operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment vital to accomplishing and supporting IW and C2W missions.

1. AF INFORMATION OPERATIONS CENTER (AFIOC) SUPPORT: Formerly called the Air Force Information Warfare Center, the AFIOC is the Center of Excellence creating the information warfare advantage for combatant forces through exploring, developing, applying, and transitioning counter-information technology, strategy, tactics, and data to control the information battlespace. Funds procure equipment and tools for the following:

a. COMMAND AND CONTROL WARFARE (C2W) OPERATIONS SUPPORT: Procures equipment to meet Air Force Command, Control and Communications Countermeasures (C3CM) Operational Support System) requirements to in order to field a C3CM system (CONSTANT WEB) that will include analysis of all-source intelligence data, databases services, and support to operational mission planners and C3CM execution elements.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** C3 COUNTERMEASURES

Description (continued):

b. INFORMATION OPERATIONS TECHNOLOGY ALLIANCE (IOTA): IOTA is a program established to bring IO relevant technologies and identified force requirements into one single place for cognizant government personnel throughout the DoD and federal Government to use. IOTA contains three main components: Phoenix Challenge, IO Technology Repository and IO Community of Practice Framework.

c. OFFENSIVE IW (IW SUPPORT): Procures computer, computer-related memory storage, local and long-haul communications, infrastructure, and unique intelligence and analysis equipment required to support IO analysis which delivers timely AF IO capabilities. These procurements are vital for the exploitation, development and fielding of IO reach-back capabilities. Also procures CND equipment, which provides Defensive Counter Information capability to protect AF computer systems and their information against unauthorized intrusion, corruption, and/or destruction, be it deliberate or unintentional. This program contains AFIOC programs and initiatives to protect AF computers, whether they are stand alone, networked, or embedded in weapons systems, and provide IO threat predictions for AF systems.

d. ELECTRONIC WARFARE INTEGRATED REPROGRAMMING (EWIR): Funds are used to procure computer equipment and analytical tools to conduct detailed analyses in support of current operations and the acquisition community (to include test and evaluation). These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. These analyses are routinely used to support operational mission planning; tactics, techniques and procedures (TTP) development; and acquisition decisions.

2. HQ AIR FORCE INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE AGENCY (AFISRA) SUPPORT: Formerly known as Air Intelligence Agency, AFISRA provides IO forces and expertise in the areas of Computer Network Operations, Influence Operations, Electronic Warfare, command and control warfare, security, foreign systems and technology to support Air Force major Commands and joint/national decision makers.

a. TELECOMMUNICATIONS MONITORING ASSESSMENT PROGRAM (TMAP): No FY09 funding requested.

b. IO PLANNING TOOLS: The Information Operations Planning Capability integrates employment of the core capabilities of EW Ops, Network Warfare (NW) Ops and Influence Ops to disrupt, corrupt, or usurp adversarial human and automated decision-making while protecting our forces. These capabilities will be developed in conjunction with the consolidation, validation, and program requirements at the MAJCOM level.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** C3 COUNTERMEASURES

Description (continued):

3. JOINT INFORMATION OPERATIONS CENTER (JIOC): The JIOC provides joint force commanders (combatant commanders, subordinate unified commanders and joint task force commanders), service component commanders and functional component commander's integrated Joint IO support. The JIOC supports the integration of constituent elements of IO throughout planning and execution phases of operations and provides Joint IO planning, including options for Defensive IO and predictive analysis of US forces involved in contingency operations and worldwide exercises. The JIOC also provides training of battlefield commanders through the use of IO analysis tools. The JIOC analyzes and correlates all-sources data on both friendly and threat forces. This data is used as input into sophisticated IO computers models, simulations, and planning analysis tools. These high-fidelity simulations provide field commanders with targeting options and composite analytic pictures. This analysis results in complete assessment of IO options and effectiveness predictions. Funding provides continuing upgrades of multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and storage capacity must be added to analysis networks and systems to improve performance of IO computer models. Workstations, which deploy with combatant commander support teams and provide on-scene analytical support as well as reach-back capability, and replaced approximately every three years. Funding also provides for deployable field support systems, equipment, and training for detecting, identifying, locating, targeting, exploiting, and countering signals in support of commandant commanders, national agencies, exercises, and advanced concept technology demonstration (ACTD) vulnerability assessments.

a. ELECTRONIC COMBAT (EC) ANALYST NETWORK: FY09 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and storage capacity must be added to JIOC analysis networks and systems to improve performance of IO computer models.

b. COMBAT ANALYSIS SYSTEM: FY09 funding provides field commander support systems, including automated support systems for IO training.

c. FIELD COMMANDERS SUPPORT: FY09 funding provides for workstations, which deploy with combatant commander support teams and provide on-scene analytical support as well as reach-back capability (replaced every three years).

d. COMPUTER TRAINING SIMULATION: FY09 funding provides for computer hardware, which hosts IO planning analysis tools used for training at centers worldwide.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
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Description (continued):

e. IO RED TEAM SUPPORT: IO Red Team Support consists of the periodically evaluation of the defensive readiness of units, headquarters, and DRUs. Participates as the aggressor unit in operational test, training and exercise events. Develop policy and procedures for conducting Red team assessments in concert with appropriate organizations, such as MAJCOMs, who have overall responsibility for the effective implementation of DCI vulnerability assessments of commands.

4. AIR FORCE INTEL ANALYSIS AGENCY (AFIAA): AFIAA provides tailored substantive intelligence assessments and imagery products for SecAF, CSAF and staffs. Directs and manages all overhead imagery requirements for civil air analysis, global Tactics Analysis, effects-based characterizations for operational Course of Action (COA) development. AFIAA was previously under AIA and is now a component of the Intelligence Directorate at the Air Staff (HAF/A2).

a. SENSOR HARVEST: This program is a Command and Control Warfare (C2W) and information tool designed to support strategic and operational planners. Funding provides upgrades of critical computers, processing systems and infrastructure to support holistic IO and nodal analysis in support of unique aspects of targeting that enable the shift from conventional to IW/C2W targeting.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** C3 COUNTERMEASURES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFIOC SUPPORT					{$1,865,000}		{$5,503,000}		{$5,642,000}
C2W OPS SUPPORT	A						$362,000		$374,000
IO TECHNOLOGY ALLIANCE	A						$453,000		$454,000
OFFENSIVE IW (IW SUPPORT)	A				$357,000		$3,140,000		$3,168,000
EWIR	A				$1,508,000		$1,548,000		$1,646,000
HQ AFISRA {A.K.A. HQ AIA}					{$1,252,000}		{$206,000}		{$413,000}
TMAP	A				$1,252,000				
IO PLANNING TOOLS	A						$206,000		$413,000
JIOC					{$1,352,000}		{$1,354,000}		{$1,389,000}
EC ANALYST NETWORK	A				$357,000		$359,000		$372,000
COMBAT ANALYSIS SYSTEM	A				$574,000		$568,000		$559,000
FIELD COMMANDERS SUPPORT	A				$110,000		$114,000		$134,000
COMPUTER TNG SIM	A				$183,000		$183,000		$183,000
IO RED TEAM SUPPORT	A				$128,000		$130,000		$141,000
AFIAA							{$308,000}		{$310,000}

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
C3 COUNTERMEASURES

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SENSOR HARVEST	A						$308,000		$310,000
TOTALS:					$4,469,000		$7,371,000		$7,754,000

Remarks:

Cost information is in actual dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$49,327	$27,498	$55,783	$39,998	$39,118	$40,068	$39,744

Description:

FY2008 funding totals do not include $15.024M in FY2008 GWOT requirements still pending Congressional consideration.

Global Combat Support System (GCSS) is a family of information technology systems that provide integration and interoperability between combat support functions and command and control to support the operational needs of the warfighter. It directly supports Command, Control, Communication, Computers, and Information (C4I) for the Warfighter and Chairman Joint Chiefs of Staff (CJCS) Joint Vision 2020. The GCSS-Air Force Family of Systems (FOS) includes standard base-level combat support applications which provide warfighters with a "one update-one time" processing environment. The following systems provide the key support foundation for the Air Force's global engagement strategy and capabilities through GCSS-AF.

1. CARGO MOVEMENT OPERATIONS SYSTEM (CMOS): CMOS supports base-level and theater distribution center movement traffic management. More than 220 Air Force, Marine Corps and selected Navy, Army, NSA, and DCMA activities employ CMOS using deployable, standalone, and regionalized configurations (four DISA regional centers). CMOS continues to provide effective traffic management support to the warfighter for both peacetime and contingency operations. CMOS prepares and manages all movement documentation, electronically interfaces with shippers, commercial carriers, and receiving activities, and provides bar coding and scanning for cargo processing. It provides in-transit visibility to DOD and commercial carriers, aids planning and managing force deployment, and supports the deployed AEF warfighter through deployable and standard CMOS architectures. FY09 funds replaces hardware at end-of-service-life to support the sustainment posture for contingency operations. This hardware replacement mitigates increased capability demands on older platforms and supports deployable CMOS hardware and associated Automatic Identification Technology (AIT).

2. FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS): FAMS provides an AIT hardware data collection system on petroleum resources using Radio Frequency Identification (RFID) and state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations in both peace and war. FAMS provides numerous mission-related benefits including: Total Asset Visibility (TAV) for petroleum resources, a critical warfighting commodity; On-Line Transaction Processing capability to reduce accounting errors in a $4.0 billion annual business; mitigating personnel

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

Description (continued):

and property risks through on-line inventory monitoring, eliminating potential for fuel spills and inventory losses; reducing AF fuels management manpower; and providing ad-hoc query capability assessment to support war planning. FAMS eliminates much of the paperwork and redundant manual input required for current fuels management processes, providing TAV while improving cash flow, credit management, and permitting just-in-time inventory visibility. The system consists of AIT hardware components that collect fuel transaction and inventory data at base level for service stations, storage tanks, and aircraft fueling systems point of sale devices using RFID. In addition, FAMS provides vital information to manage resources at the unit level and processes all electronic business transactions to the Defense Logistics Agency Defense Energy Support Center (which manages national stock numbers for petroleum products) Business Systems Modernization architecture for financial management. FY09 funds procure FAMS AIT hardware and installation of Automated Fuels Storage Tank Product Recovery and Water Removal Systems, Refueling Unit Overfill and Spill Prevention devices, and Resource Control Center Supervisory Control and Security Data Integration.

3. FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST): FIRST is a software effort that will provide an integrated, modern, seamless financial management system capability that enables authorized users (from Air Staff to MAJCOM level) to plan, program, and formulate their budgets. FIRST is ultimately envisioned to be the foundation for the Air Force (AF) planning, programming, and budgeting system. FIRST is being developed using the spiral development approach and maximizes use of commercial-off-the-shelf (COTS) products. The Budget Formulation (BF) increment capability supports force programming, formulation of budget requirements and deliberation of budget options, budget justification processes, and documentation. FIRST BF encompasses the budget exercise process, which affects all organizational levels, and is based on core financial and selected program information used to build the AF budget. The intent of FIRST is to provide the capability necessary to eventually replace the Automated Budget Interactive Data Environment System (ABIDES), Resource Allocation Programming Information Decision System (RAPIDS), and the Program Data System (PDS). FIRST will comply with: the Clinger-Cohen Act; the Business Enterprise Architecture (BEA); Chief Financial Officer (CFO) Act; DoD Information Technology Standards Registry (DISR) guidelines, and; Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) guidelines. FIRST will be integrated into the GCSS-AF architecture. The development funds for FIRST are in PE 0901538F, Financial Management Information Systems (FMIS) Development . FY09 funds procure hardware (Capabilities Integration Environment (CIE)) and software licenses for deployment of the FIRST Budget Formulation increment.

4. DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS): DEAMS is a Commercial-off-the-shelf (COTS) based software configuration effort that will provide a modern accounting and finance system. DEAMS will replace existing accounting and finance legacy systems to provide core funds execution management functions consistent with financial management laws, regulations and policy, general ledger, funds management,

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Description (continued):

payments, receivables, cost and revenues, and fiduciary reporting. The AF increment will build on a USTRANSCOM technology demonstration to include AF investment funding, commitment accounting, cost accounting, Foreign Military Sales (FMS) accounting, AF Working Capital Fund (AFWCF) management and contingency operations management. DEAMS will be compliant with the Clinger-Cohen Act, Business Enterprise Architecture (BEA), and integrate into Global Combat Support Systems-Air Force (GCSS-AF). The development funding for DEAMS is in PE 0901538F, Financial Management Information Systems (FMIS) Development. FY09 funds procure hardware and COTS licenses.

5. EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS): ECSS is a COTS system that will enable the Expeditionary Logistics 21st Century (eLog21) vision. ECSS will leverage an Enterprise Resource Planning (ERP) COTS solution as its primary system. ECSS is a component of the larger eLog21 systems architecture and consists of modules that will integrate financials, order management, purchasing, inventory management, distribution, and other business functions of the Air Force onto one platform. ECSS will enable coordination of the systems and process changes necessary to streamline and improve the Air Force logistics supply chain. ECSS will replace over 500 legacy Air Force information technology systems with a COTS information technology suite. This suite consists of over ten integrated modules with software/hardware and embedded/updatable best business practices, as well as capabilities in product support and engineering; supply chain management; expeditionary logistics command and control; and maintenance, repair, and overhaul. Development funding for ECSS is in Program Element 0708610F, Logistics Information Technology.

FY09 funding supports four functions of ECSS: Oracle database server licenses; GCCS-AF Infrastructure; Product Lifecycle Management (PLM) software licenses; and Automatic Identification Technology (AIT) client devices. FY09 procurement of Oracle Licensing continues the purchases made in FY08. FY09 funding also procures ECSS server hardware and network components for the GCSS-AF production environments. Additionally, FY09 funding will procure Product Lifecycle Management (PLM) software licenses, which are needed to cleanse and maintain weapon system product data and interface with Original Equipment Manufacturers (OEM) engineering systems and allow the AF to import released weapon system's Bills of Material (BOMs) for sustainment in ECSS. Finally, FY09 funding will procure Automatic Identification Technology (AIT) client devices to support in-transit visibility across the entire logistics supply chain (base-level, transportation, Air Logistics Centers, etc.) This hardware interfaces with the ECSS system footprint by capturing transactions for maintenance, inventory, purchasing, shipping, and material activities, among other functions.

6. GLOBAL COMBAT SUPPORT SYSTEM-AIR FORCE (GCSS-AF): This program element encompasses GCSS-AF's Integration Framework and its presentation layer for operational users. As the customer interfaces on GCSS-AF, the presentation layer provides the worldwide standard security and single sign-on for accessing a variety of functional systems. The Framework uses additional security features of Public Key Infrastructure (PKI) and AF Directory

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
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Description (continued):

Services, negating duplication of security features in each the functional systems being modernized within the GCSS-AF FOS. This effort procures application, security, web, and proxy servers, software and associated licenses, and engineering support. FY09 funds procure the AF-wide Integration Framework (architecture) and funds sustainment of the fielded portal through hardware refresh and Portal, Metrics, Search, and Middleware software for the Secret Internet Protocol Router Network (SIPRNET), two NIPRNET, and production sites at Defense Information Systems Agency (DISA) continental United States (CONUS) Defense Enterprise Computing Centers. Development funding for GCSS-AF is in Program Element 0303141F, Global Combat Support System.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CARGO MOVEMENT OPERATIONS SYSTEM (CMOS)	A				$1,104		$852		$1,069
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)	A				$9,279		$3,073		$2,667
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)	A				$782		$808		$829
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS)	A						$38		$1,511
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)	A				$16,460		$10,493		$39,214
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE	A				$21,702		$12,234		$10,493
TOTALS:					$49,327		$27,498		$55,783

Remarks:
Cost information is in thousands of dollars.

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APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
CARGO MOVEMENT OPERATIONS SYSTEM (CMOS)(1)									
FY2007(2)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-07	Aug-07		
FY2008(2)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-08	Aug-08	Yes	
FY2009(2)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-09	Aug-09	Yes	
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)									
FY2007(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-06	Feb-07		
FY2008(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-07	Feb-08		
FY2009(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-08	Feb-09	Yes	
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)									
FY2007(4)			11WING	OPT/CPAF	MULTIPLE	May-07	Feb-08		
FY2008(4-5)			11WING	OPT/CPAF	MULTIPLE	May-08	Feb-09	Yes	
FY2009(5)			11WING	OPT/CPAF	COGNOS CORP/ RESTON, VA	May-09	Feb-10	Yes	

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS)									
FY2008(6)			11WING	OPT/FFP	ORACLE/ RESTON, VA	Dec-07	Jul-08		
FY2009(6)			11WING	OPT/FFP	MULTIPLE	Dec-08	Jun-09	Yes	
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)									
FY2007(1)			AFMC/MSG	OPT/FFP	ORACLE/ RESTON, VA	May-07	May-08		
FY2008(1)			AFMC/MSG	OPT/FFP	ORACLE/ RESTON, VA	May-08	May-09	Yes	
FY2009(1)			AFMC/MSG	OPT/FFP	ORACLE/ RESTON, VA	May-09	May-10	Yes	
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE									
FY2007(7)			AFMC/ESC	OPT/FFP	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-06	Jan-07		
FY2008(7)			AFMC/ESC	OPT/FFP	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-07	Jan-08		

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(7)			AFMC/ESC	OPT/FFP	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-08	Jan-09	Yes	

Remarks:

Quantity/unit costs vary depending on site configuration.

(1) Multiple contracts. COTS software contract awarded on 20 Oct 05 to Oracle Corp of Reston VA on contract FA8770-06-F8002 with five option years. ECSS program received Milestone A approval on 31 Aug 05. The System Integrator contract was awarded to CSC of El Segundo, CA, on September 6, 2006. IBM subsequently protested the award but the GAO denied the protest in 1 March 2007.
(2) Multiple contracts to include: FY04 Automatic Identification Technology III contract with AIT III Intermec Technologies, Inc., WPAFB, OH; MMAD with GTSI, Chantilly, VA; along with GSA, BPA, IT Services and ULANA II. Award/delivery dates represent the date of first award/delivery.
(3) Various contracts are available through the following vendors: Cegelec, Germany, GSA Schedule, SPAWARS and AFCEE. Award/delivery dates represent the date of first award/delivery.
(4) Options to purchase Oracle user licenses utilizing GSA to include maintenance and hardware upgrades: GSA Huntsville AL.; Mythics Inc. Virginia Beach, VA
(5) Options to purchase Cognos and Business Intelligence software utilizing GSA to purchase first year annual maintenance: Cognos Corporation, Reston, VA
(6) DEAMS contractor is Oracle, in Reston, VA. FY09 DEAMS hardware contractor is TBD.
(7) GCSS-AF contract F01630-96-d-004 awarded 15 Aug 96 with 10 option years and an awarded two-year extension.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER BATTLE MANAGEMENT C2 SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$23,491	$22,549	$22,525	$28,998	$27,025	$27,605	$28,021

Description:

THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS) is an integrated battle management system used to plan, execute and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at entities ranging from the Force level (Air and Space Operations Centers (AOC)) to the Unit level (wings/squadrons) for operations and intelligence functions. TBMCS is a United States Air Force system with joint interest responsible for generation and dissemination of the air tasking order and will be interoperable with allied units. Enhanced force level capabilities will be provided through the Applications Development project and unit level capabilities through the Unit Level (Unit Command and Control - UC2) project within the AOC Weapon System Program Element 0207410F.

This program purchases Commercial Off The Shelf (COTS) equipment to satisfy Air Force requirements for automated support of command and control functions at both force and unit-levels worldwide.

TBMCS funds procure 1) fully configured hardware upgrades for fielded force and unit level (operations and intelligence) installations necessary to sustain operations and to support initial installations of unit level capabilities; and 2) required software licenses, Type 1 training, contract engineering and System Program Office support associated with the fielding of TBMCS force level and unit level increment software releases.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
THEATER BATTLE MANAGEMENT C2 SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TBMCS							{$11,205}			{$12,228}			{$12,546}
FORCE	A						$5,837			$6,250			$6,460
UNIT	A						$3,965			$4,545			$4,650
CIS (INTEL)	A						$1,403			$1,432			$1,436
COTS SOFTWARE LICENSES							$5,268			$5,413			$5,630
TYPE 1 TRAINING AND FIELDING (1)							$1,785			$1,275			$1,290
INTERIM CONTRACTOR SUPPORT (ICS) (1-2)							$525			$597			
SYSTEM ENGINEERING							$1,969			$1,451			$1,495
PROGRAM SUPPORT							$2,739			$1,585			$1,565
TOTALS:							$23,491			$22,549			$22,525

Remarks:

Total Cost information is in thousands of dollars.

(1) Ongoing requirement driven by installation schedule and fielding of spiral software releases.
(2) ICS is provided to both TBMCS Force and Unit via a team of Subject Matter Experts. This team supports initial fielding efforts as well as spiral software releases to existing TBMCS locations.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
THEATER BATTLE MANAGEMENT C2 SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TBMCS									
FORCE									
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07		
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Feb-08	Mar-08	Yes	
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	Yes	
UNIT									
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07		
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Jan-08	Feb-08		
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	Yes	
CIS (INTEL)									
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07		
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Jan-08	Feb-08		
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	Yes	

Remarks:

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** THEATER BATTLE MANAGEMENT C2 SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(1) Varying quantities and unit costs due to number/types of equipment being procured for specific sites. Sites include Air Combat Command, Pacific Air Forces, United States Air Forces in Europe, Air Force Special Operations Command, Air National Guard and Reserve.
(2) Multiple contracts for COTS equipment are used. Companies include World Wide Technology, Maryland Heights, MO; Northrop Grumman Information Technology, McLean, VA; Government Technology Services Inc, Chantilly, VA; Government Micro Resources Inc, Manassas, VA; Counter Trade Products Inc, Arvada, CO, Dell Incorporated, Austin, TX; CENTECH, Montgomery, AL; MULTIMAX, Largo, MD; and NCI Information Systems, Reston, VA. Award/delivery dates reflect date of first award and delivery.
(3) Multiple purchase requests (PRs) will be executed to procure hardware on FFP contracts.
(4) Specs Avail. date: Program purchases latest versions of COTS hardware available for delivery.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$26,797	$43,363	$35,050	$53,216	$28,766	$22,181	$31,446

Description:

FY2007 funding includes $1.25M in GWOT supplemental.

The Air and Space Operations Center Weapon System (AOC WS), AN/USQ-163 Falconer, the senior element of the Theater Air Control System (TACS), is the weapon system that the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for monitoring, planning, executing and assessing theater-wide air and space operations in support of the air battle campaign to meet the Combined/Joint Force Commander's (C/JFC) objectives.

1. AOC WS PROGRAM: The AOC WS funding provides system hardware, software, technical documents, technology refresh, and difference training to standardize and sustain the weapon system 10.1 program baseline and field new capabilities in the modernization program 10.2. The fieldings consist of Falconer AOCs, Tailored Falconers, and Functional AOCs. These fieldings also to support entities providing training, including the Combined Air Operations Center - Nellis AFB (CAOC-N), formal training units (FTU), technical support (Help Desk) and augmentation units with trained manpower through Air Reserve Components (ARCs) and Air Mobility Squadrons. Tailored Falconers, Functional AOCs, and support entities are tailored to meet mission requirements of the theater, Combatant Commander, or specialized support (e.g. Initial Qualification Training and training for Formal Training Units). The ARC units and Air Mobility Operations Squadrons will be fielded a training suite to allow augmentation personnel to maintain currency.

a. INCREMENT FIELDING: FY09 funding will continue standardization of the remaining Tailored Falconer, functional and support AOC entities. This includes fielding common infrastructure to support the 10.1 baseline and critical capabilities providing a common operating view of the battlespace with supporting theater combatant commanders, capability to support time sensitive targeting, and common collaborative tools both inside and outside the AOC WS. The AOC WS supports Operations IRAQI FREEDOM and ENDURING FREEDOM, providing capability to develop and execute Air Tasking Orders and support time sensitive targeting to reduce friendly loss of life. The AOC WS directly supports Operation NOBLE EAGLE ensuring Command and Control (C2) and Intelligence, Surveillance and Reconnaissance (ISR) support for Homeland Defense.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

Description (continued):

b. TECHNICAL REFRESH: FY09 funds will be used to provide technical refresh to AOCs (Falconers, Functionals, Tailored Falconers), ARC units, and other AOC Support elements. The AOC WS program must continue to update information technology equipment to keep pace with Air Force and joint service C2 systems employed in theaters of operations.

c. TECHNICAL DOCUMENTATION: FY09 funds will procure the current baseline Descriptive List Of Applicable Publications (DLOAP), Boundary Security System (BSS), and AOC Service Support System (AS3) Technical Order (TO)s for the AOC WS.

d. TRAINING: FY09 funds will be used to provide initial cadre instruction for installation and difference training related to the acquisition, fielding, and technical refresh of the AOC Weapon System's Falconers, Tailored Falconers, Functional AOC's, and Support elements. Training will be provided by both contractor-provided curriculum and Program Office personnel.

e. PROGRAM SUPPORT: FY09 funding includes provisions for government contract oversight, technical expertise and AOC WS Program Office support associated with the fielding of the AOC WS.

2. COMBINED AIR AND SPACE OPERATIONS CENTER EXPERIMENTAL (CAOC-X): No FY09 funding requested.

3. AOC MULTIFUNCTION INFORMATION DISTRIBUTION SYSTEM LOW VOLUME TERMINAL (MIDS LVT): No FY09 funding requested.

4. AL UDEID AIR BASE AIR OPERATIONS CENTER TECHNOLOGY REFRESH: No FY09 funding requested.

5. AIR OPERATIONS CENTER (AOC) COMMAND AND CONTROL (C2) SYSTEM BACK-UP SUITE: No FY09 funding requested.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
1. AOC-WS PROGRAM							{$22,873}			{$43,363}			{$35,050}
a. INCREMENT FIELDING	A						$14,995			$35,967			$28,959
b. TECHNICAL REFRESH	A						$3,812			$5,035			$3,000
c. TECHNICAL DOCUMENTATION	A						$1,340			$1,211			$1,037
d. TRAINING	A												$879
e. PROGRAM SUPPORT	A						$2,726			$1,150			$1,175
2. CAOC-X	A						$2,174						
3. AOC MULTIFUNCTION INFO DISTR SYSTEM LOW VOL TERM	A						$500						
4. AL UDEID AIR BASE AIR OPERATIONS CENTER TECHNICAL REFRESH (1)	A						$900						
5. AOC C2 SYSTEM BACK-UP SUITE (2)	A						$350						
TOTALS:							$26,797			$43,363			$35,050

Remarks:

Total Cost information is in thousands of dollars.

(1) FY07 funding includes $0.9M GWOT Supplemental for "Al Udeid Air Base Air Operations Center Technology Refresh"

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST

(2) FY07 funding includes $0.35M GWOT Supplemental for "AOC C2 System Back-Up Suite".

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AOC-WS PROGRAM									
INCREMENT FIELDING									
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	Dec-06		
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Jan-08	Feb-08		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Jan-09	Feb-09	Yes	
TECHNICAL REFRESH									
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	Dec-06		
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Jan-08	Feb-08		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Feb-09	Mar-09	Yes	
TECHNICAL DOCUMENTATION									
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	Nov-06		
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-07	Dec-07		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-08	Dec-08	Yes	
PROGRAM SUPPORT									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-06	Oct-06		
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-07	Oct-07		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-08	Oct-08	Yes	
TRAINING									
FY2009(1-3)			AFMC/ESC	MIPR/OPT/OTH	MULTIPLE	Dec-08	Jan-09	Yes	
CAOC-X									
FY2007(1-2,4)			HQ ACC	MIPR/OPT/IDIQ	GSA/ MULTIPLE	Feb-07	May-07		
AOC MULTIFUNCTION INFO DISTR SYSTEM LOW VOL TERM									
FY2007(2)			SPAWAR	FCA/FFP	MULTIPLE	May-07	Jul-07		
AL UDEID AIR BASE AIR OPERATIONS CENTER TECHNICAL REFRESH									
FY2007(5)			AFMC/ESC	C/FFP	MULTIPLE	Aug-07	Sep-07		
AOC C2 SYSTEM BACK-UP SUITE									
FY2007(5)			AFMC/ESC	C/FFP	MULTIPLE	Aug-07	Sep-07		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

Remarks:

Multiple award delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.

(1) Quantity and Unit Cost vary due to unique AOC site configurations and capabilities.
(2) Multiple Purchase Requests & Military Interdepartmental Purchase Requests (PR's/MIPRS) will be executed by multiple agencies to procure hardware on CPAF and IDIQ contracts.
(3) Contractors for the AOC WS, Increment Fielding, Technical Refresh, Technical Documentation, Systems Program Support and Training include: ITSP BRIDGE Contract, Gemini Ind, Inc, Billerica, MA, FA8721-07-F-0110 Awarded 29 Jun 2007, 9 mos; Professional Assistance & Support Services (PASS) award expected Mar 2008. The Air and Space Operations Center Weapon System selected a Weapon System Integrator (Lockheed Martin IS&S) through full and open competition, to ensure system of systems perspective and systems engineering rigor; basic contract awarded Dec 2006.
(4) CAOC-X: General Dynamics ICE2, Robins AFB, GA, Contract F09603,03-D-0095, 5-year option, with 6 additional options, award date Feb 2006.
(5) GWOT awarded on multiple contracts: FA8706-07-F-8044/P0001; FA8706-07-F-8043; and FA8771-04-D-0003 RSE7

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE INFORMATION INFRASTRUCTURE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$322,401	$320,926	$337,190	$453,324	$455,019	$538,329	$595,392

Description:

FY2008 funding total does not include $231M in GWOT supplemental still pending Congressional consideration.

The Base Information Infrastructure (BII) procurement line supports Air Force downward-directed corporate requirements from the Air Staff level. Currently BII funds the Combat Information Transport System (CITS) program, Network Management/Network Defense, Voice Switching Systems, Program (ISSP), and Air Force Directory Services.

1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS): CITS is the Air Force component of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII). CITS modernizes base/site information transport, management and protection capabilities by replacing maintenance-intensive equipment, replacing or upgrading existing voice switching systems, providing network management of information systems, increasing the capacity of saturated information transmission systems and providing information protection tools. This is the primary Air Force program to install complete, secure, fiber-optic and wireless infrastructure to mission-critical fixed-base facilities. This infrastructure ensures the warfighter and wing command center full access to real-time command and control (C2) information during contingencies. Lack of C2 access would severely limit reach-back capability supporting deployable push/pull information capability and impede proactive information protection countermeasures to support collaborative information exchange. The program includes three product areas that are centrally funded and described below:

a. INFORMATION TRANSPORT SYSTEM (ITS): The ITS product area implements and upgrades a broad-band, fiber-optic and wireless digital information transport network to provide near-instantaneous information transfer for each base and selected geographically separated units. It provides reliable and survivable information transport with sufficient capacity to meet the classified and unclassified data, voice, video, imagery and telemetry requirements at each fixed location. P-1 Line 56, Base Communications Infrastructure responds to emerging or short-term requirements while Base Information Infrastructure provides an enduring, standard upgraded network backbone to all bases in priority order.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE INFORMATION INFRASTRUCTURE

Description (continued):

ITS further expands the Secure Internet Protocol Router Network (SIPRNET) infrastructure--the backbone to joint and coalition warfighting. Any delay in ITS installation will impact the schedules of C2 and combat support automation modernization programs dependent upon the in-place fiber optic ITS infrastructure. FY09 funds direct mission support and procures ITS installation projects for the highest priority bases and provides funding to the AFNetOps construct. AFNetOps will centralize command and control and security of the AF Enterprise. Installs may include: fiber optic backbone, network equipment, encryption devices, virtual private networks, voice and video interfaces, building wiring, wireless, network access, training, test and support.

b. NETWORK MANAGEMENT/NETWORK DEFENSE (NM/ND): The NM/ND product area delivers and updates a modern network management system and puts in place a leading edge network infrastructure critical for Air Force Network Operations (AFNetOps) Transformation. This transformation includes implementation of the Integrated AF Network Operations Center (AFNOC) Divisions construct (Network Security, Network Operations, and Network Control) and consolidation of Integrated Network Operation and Security Centers (INOSC) to include their supporting Detachments and other organizations that enable centralized management and defense of the network enterprise. NM/ND provides the information assurance, network management and telephonic management and protection tools for AFNetOps operating locations to detect, analyze, deter, isolate, contain, reconstitute and recover from information systems and network security intrusions or attacks. Tools enable information integrity, security and confidentiality to be maintained while passing information across the infostructure (networks, servers, clients). Situational awareness of the infostructure is provided via a Common Operational Picture (COP). Efforts in this product area continue to close all known holes in the AF's protective net, deploy analytical tools, develop automated tools to dynamically detect and respond to network intrusions, develop the road map for creating self-healing, self-forming, self-aware networks to prevent threat-based or equipment-based network degradations or outages, standardize AF-level operations centers (AFNOC, INOSCs plus Dets) and provide critical training and support needed to fight cyber threats. NM/ND supports the International Standards Organization's (ISO) five network management functions: fault management, configuration management, performance management, accounting management and security management. Products assure integrity of information systems in the face of attack and assist with defense against cyber attacks on critical defense-related infostructure. FY09 funds procure direct mission support and continue the installation and support of critical classified and unclassified information equipment capabilities for fixed-based and deployed installations worldwide.

c. VOICE SWITCHING SYSTEM (VSS): Funds direct mission support and procure upgrades for the 380 switches in the AF inventory to support converged voice and data traffic onto a single network transport layer. FY09 funding procures upgrades to six regional Multifunction Switches that will eliminate local base switches reducing manpower and operations and maintenance costs.

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Description (continued):

2. INFORMATION SYSTEM SECURITY PROGRAM (ISSP): FY09 funding provides for modernization and implementation of specialized computer network defense tools to meet DoD and AF defense in-depth requirements. Technologies, products and systems will focus on improving network intrusion detection systems, firewalls, gateway solutions, virtual private networks, vulnerability assessment, patch distribution and management and “insider threat” identification and mitigation. ISSP ensures the detection of malicious intrusions that have circumvented first layer defenses at the protection perimeter, the lockdown or hardening of critical resources and assets, and enhanced access control and auditing capabilities.

3. JOINT NETWORK MANAGEMENT SYSTEM (JNMS): No FY09 funding requested.

4. AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC): No FY09 funding requested.

5. AIR FORCE DIRECTORY SERVICES (AFDS): AFDS serves as the foundation for identity management by creating the single user namespace that will support the delivery of an enterprise security service and backbone for AF networks (both in-garrison and tactical), as well as enterprise systems and applications. AFDS addresses challenges and enhances AF mission performance through seamless integrated access to the right information anywhere, anytime. AFDS leverages and provides a core meta-directory service that "joins" and synchronizes personal identity data attributes from authoritative AF and DoD repositories, (i.e., the Military Personnel Data Center (MilPDS), Defense Civilian Personnel Data System (DCPDS), Defense Manpower Data Center (DMDC), Department of Defense-Global Directory Services (DoD-GDS), or AF-GAL for use by all AF software applications, examples include: AF Computer-Based-Training (CBT), Whitepages, MyPay, and AF-Portal. AFDS ensures that AF user identities are common and synchronized across directories and information stores of various networks, systems and applications. It eliminates the disparity of maintaining stove-piped systems and, through use of directory technology, alleviates latency associated with the sharing/replication of identity attributes.

The AFDS program includes the following identity management capabilities: account management, authentication, and authorization for Global Combat Support System-AF/Integrated Framework and MAJCOM's Active Directory (AD) network environments. AFDS also provides GAL Distribution Services to the warfighter for the USAF and DoD email systems and is the key enabler for the Air Force Email for Life (E4L) initiative, which provides a persistent email address to all AF members. AFDS has connections on the unclassified and classified network with all MAJCOMs, AF components in the Pentagon, USSTRATCOM, USTRANSCOM, the AF component of CENTCOM. The goal of AFDS is to host all of the following services: AF Global Address List (GAL), Common Access Card (CAC) logon, Public Key Infrastructure (PKI), and access control (AC). As communities use mission-applications directory and expose more data via the web, these AFDS infrastructure capabilities will expand and continue to provide a secure and easy way to facilitate

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Description (continued):

synchronized information and shared security capability in the context of the Global Information Grid (GIG) architecture. As net-centric enterprise messaging, discovery, mediation, collaboration, and information assurance/security services are implemented, the required directory infrastructure must be in-place and capable of hosting and supporting them.

FY09 funding procures servers, new software add-ons, and equipment supporting enterprise identity management and the email GAL.

6. SERVICE-WIDE SUPPORT: No FY09 funding requested.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
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PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT INFORMATION TRANSPORT SYSTEM (CITS)					{$311,876}		{$304,617}		{$328,989}
INFORMATION TRANSPORT SYSTEM (ITS)	A				$139,816		$102,260		$69,730
NETWORK MANAGEMENT/NETWORK DEFENSE (NM/ND)	A				$145,491		$192,239		$251,255
VOICE SWITCHING SYSTEM (VSS)	A				$26,569		$10,118		$8,004
INFORMATION SYSTEMS SECURITY PROGRAM	A				$1,995		$4,103		$7,152
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)	A				$6,786		$4,441		
AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC)	A				$740				
AIR FORCE DIRECTORY SERVICE (AFDS)	A				$1,004		$1,031		$1,049
SERVICE-WIDE SUPPORT	A						$6,734		
TOTALS:					$322,401		$320,926		$337,190

Remarks:

Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
COMBAT INFORMATION TRANSPORT SYSTEM (CITS)									
INFORMATION TRANSPORT SYSTEM (ITS)									
FY2007(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-07	Jun-07		
FY2008(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Apr-08	May-08	Yes	
FY2009(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
NETWORK MANAGEMENT/NETWORK DEFENSE (NM/ND)									
FY2007(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06		
FY2008(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Dec-07	Mar-08		
FY2009(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-08	Dec-08	Yes	
VOICE SWITCHING SYSTEM (VSS)									
FY2007(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Nov-06	Dec-06		

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2008(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-07	Mar-08		
FY2009(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-08	Mar-09	Yes	
INFORMATION SYSTEMS SECURITY PROGRAM									
FY2007(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-07	Jun-07		
FY2008(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-08	Jun-08	Yes	
FY2009(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-09	Jun-09	Yes	
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)									
FY2007(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Mar-07	May-07		
FY2008(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-07	Feb-08		
AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC)									
FY2007(2)			HQ ACC	C/FFP	MULTIPLE	Mar-07	May-07		
AIR FORCE DIRECTORY SERVICE (AFDS)									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
BASE INFORMATION INFRASTRUCTURE

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Jul-07	Aug-07		
FY2008(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Nov-07	Feb-08		
FY2009(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
SERVICE-WIDE SUPPORT									
FY2008			11WING	C/FFP	MULTIPLE	Jan-08	May-08		

Remarks:

(1) Multiple award and delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.
(2) Multiple contractors will be used to satisfy requirements. Contracts are typically, but not exclusively, accomplished via NETCENTS. CITS: Typical contractors include NG, McLean, VA; General Dynamics, Needham, MA; Centech Group, Arlington, VA; Multimax, Inc., Largo, MD; NCI Info Systems, Reston, VA; Booz Allen Hamilton Inc., McLean, VA; Lockheed Martin, Manassas, VA; Telos Corp, Ashburn, VA.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** USCENTCOM

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$38,428	$112,785	$42,677	$44,527	$37,558	$38,293	$39,049

Description:

United States Central Command's (USCENTCOM) mission is to work with its national and international partners in promoting development and cooperation among nations, responding to crises, and deterring or defeating state and transnational aggression in order to establish regional security and stability across its entire Area of Responsibility (AOR). Since USCENTCOM's AOR, covering the Middle East, includes the challenges of regional stability and violent extremists, this Combatant Command's mission is critical in regards to the War on Terror. The Air Force (AF) is the executive agent for Headquarters USCENTCOM, (HQ USCENTCOM) which is geographically separated from its AOR by over 7,000 miles. To meet its mission responsibilities across this geographical expanse, HQ USCENTCOM must rely heavily on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority. FY09 funding modernizes intertheater C4 capabilities, as well as improving communications reliability, capacity, and security in a number of key operating locations in Southwest Asia. Acquiring current systems, reduces life cycle maintenance, and reduces the AF's need to activate and deploy Guard and Reserve units to maintain and operate the older, more manpower-intensive tactical communications systems. FY09 funding procures communications and electronics equipment in support of Host Nation mandated moves. FY09 funding also includes the final phases of the renovation of USCENTCOM headquarters at MacDill AFB, Tampa, FL.

1. USCENTCOM COMMAND AND CONTROL SYSTEMS: FY09 funding procures communications equipment supporting the USCENTCOM Headquarters, Commander and Staff in MacDill AFB, FL. Effort will procure equipment life cycle updates, as well as new technology directly supporting, but not limited to: Command and Control (C2) systems, classified and unclassified voice, data and video dissemination, local area network (LAN) infrastructure (routers, switches, servers, etc.), and storage area network hardware. This equipment provides HQ USCENTCOM with effective C4 systems to effectively conduct current and future operations throughout the AOR.

2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under US Joint Forces Command, is the only joint Department of Defense (DoD) unit specifically formed to provide C4 systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. Equipment requirements are approved annually by the JCS and procurement for the AF share is executed by JCSE. FY09 funding procures the AF's proportional cost share of deployable

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Description (continued):

C4 systems to support deployed Joint Task Force Headquarters and Joint Special Operations Task Force Headquarters.

3. AIR COMBAT COMMAND (ACC) COMMUNICATIONS: United States Central Command Air Forces (USCENTAF) is the ACC component designated to support USCENTCOM operations in deployed theaters for the Air Force. FY09 funds modernize and upgrade C4 systems throughout the area of responsibility (AOR). Procurement efforts include, but are not limited to, commercial satellite terminals, telephone switches, network servers and associated information assurance tools, as well as deployed air traffic control and landing systems.

4. USCENTCOM HEADQUARTERS RENOVATION: In FY09 funding procures communications equipment for the HQ USCENTCOM renovation at MacDill AFB, Tampa, FL. This includes funding for vital command and control (C2) systems, installation and distribution of DISN services, classified and unclassified voice, data, and video, local area networking servers, information assurance tools, critical power generation and electrical equipment, and enterprise software licenses to the over 2,800 members of the Command and staff.

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APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
USCENTCOM

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
USCENTCOM COMMAND AND CONTROL SYSTEMS	A				$3,330		$49,716		$3,533
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	A				$3,438		$3,825		$4,170
ACC COMMUNICATIONS	A				$31,660		$27,085		$20,874
USCENTCOM HEADQUARTERS RENOVATION	A						$32,159		$14,100
TOTALS:					$38,428		$112,785		$42,677

Remarks:
Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
USCENTCOM COMMAND AND CONTROL SYSTEMS									
FY2007(1)			USCENTCOM	C/FFP	MULTIPLE	May-07	Aug-07		
FY2008(2)			USCENTCOM	C/FFP	UNKNOWN	Feb-08	Sep-08	Yes	
FY2009(2)			USCENTCOM	C/FFP	UNKNOWN	Feb-09	Jul-09	Yes	
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)									
FY2007(1-2)			11WING	C/FFP	MULTIPLE	Jan-07	Jun-07		
FY2008(2)			11WING	C/FFP	UNKNOWN	Apr-08	Aug-08	Yes	
FY2009(2)			11WING	C/FFP	UNKNOWN	Jan-09	Aug-09	Yes	
ACC COMMUNICATIONS									
FY2007(1-2)			HQ ACC	C/FFP	MULTIPLE	Dec-06	Mar-07		
FY2008(2)			HQ ACC	C/FFP	UNKNOWN	Mar-08	Sep-08	Yes	

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OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
USCENTCOM

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(2)			HQ ACC	C/FFP	UNKNOWN	Mar-09	Sep-09	Yes	
USCENTCOM HEADQUARTERS RENOVATION									
FY2008(2)			USCENTCOM	OTH/OTH	UNKNOWN	Feb-08	Jun-08	Yes	
FY2009(2)			USCENTCOM	OTH/OTH	UNKNOWN	Dec-08	Mar-09	Yes	

Remarks:

(1) Multiple contract awards for small acquisitions through different government contracts and contracting agencies, for example: NAVAIR, Saint Inigoes, MD; 6th Contracting Squadron, MacDill AFB, FL; NSA, Ft Meade, MD; PM-MILSATCOM, Ft Monmouth, NJ; and SPAWAR, North Charleston, SC, and AFMC/ESC. Contractor/vendor examples: Eaton Electrical Inc., Raleigh, NC; Dataline Inc, Norfolk, VA; TKC Integration Services, LLC, Fairfax, VA; SBC Datacom, Inc, Sterling, VA; Tibalco, LLC, Bethesda, MD; CISCO Systems, Inc, San Jose, CA; Tanberg, Viejo, CA; VIASAT, Inc, Carlsbad, CA; L-3 Communications, Hauppauge, NY; SWE-DISH Satellite Systems, Solna, Sweden; Harris RF Communications, Rochester, NY; TCS Telecommunications Systems, Tampa, FL; IBM, Armonk, NY; Dell, Round Rock, TX; Anteon, Fairfax, VA; DataPath, Duluth, GA; General Dynamics, Falls Church, VA; ITT Industries, Colorado Springs, CO; L-3 Communications Government Services, Inc, Chantilly, VA; Lockheed-Martin IT, Seabrook, MD; Milcom Systems, Virginia Beach, VA; MTS, Amherst, VA; Multimax, Largo, MD; Spacelink, Dulles, VA; Sprint, Reston, VA; Tactical Power Systems, Rangeley, ME; Northrop Grumman Information Technology-Defense Mission Systems, Redcom Laboratories; Dell computers., and General Dynamics Decision Systems. Award/delivery dates reflect date of first award and delivery.
(2) Quantity/unit costs vary because of different types/configurations of equipment being procured.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** SPACE BASED IR SENSOR PROGRAM SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$6,508	$3,952	$80,405	$1,940	$1,932	$1,975	$2,018

Description:

The Space-Based Infrared System (SBIRS) consolidates national and DOD infrared detection systems into a single overarching architecture that fulfills the nation's security needs in the areas of missile warning, missile defense, technical intelligence and battlespace awareness. SBIRS enables global, simultaneous surveillance, tracking and targeting of multiple targets in multiple areas of responsibility, and surveillance of infrared sources of operational, intelligence or national significance. SBIRS consists of Defense Support Program (DSP) satellites, satellites in Geosynchronous Earth Orbit (GEO), payloads hosted on Highly Elliptical Orbit (HEO) satellites, an integrated centralized Mission Control Station (MCS) and full backup and relay and mobile ground stations. Development funding is in Program Element 0604441F, Space Based Infrared System (SBIRS) High EMD.

SBIRS MOBILE AND FIXED SITE COMMUNICATIONS/ELECTRONIC UPGRADES: FY09 funding procures DSP and SBIRS assets to maintain the Data Processing Sub-System upgrade and other low-cost upgrades and maintenance that exceed operations and maintenance appropriations thresholds. This requirement will increase as legacy Mobile Ground Terminals (MGT) continue to operate outside of their design life due to delays in the fielding of the Multi-Mission Mobile Processor (M3P), a vital tool to provide theater combatant commanders with the ability to receive, process and disseminate information regarding hostile tactical ballistic missile launches. Fixed site examples include, but are not limited to, legacy receiver replacement, antenna drive system upgrades, Spacecraft Simulator RF replacement, MCS display upgrade, Rapid Delog (instantaneous translation of computer data to a human-readable format), Sybase database obsolescence, communications and network routers, and switches and time server replacements. Mobile system examples include, but are not limited to, aging radio frequency communications equipment, aging antenna equipment, aging electrical equipment and cabling, and unsupportable data processing subsystem components.

SBIRS GROUND SYSTEM MODIFICATIONS: The mission management, mission processing, and telemetry, tracking and control aspects of the ground system will undergo modifications to account for an additional HEO payload. These changes are necessary to allow the development team to conduct scheduled software maintenance and development upgrades without disrupting HEO operations. The $78.5 million increase in FY09 funding provides for the software modifications and hardware upgrades necessary to process, operate and command a 3rd HEO payload. FY09 funding will also be used to upgrade

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Description (continued):

the Integrated Training Suite (ITS) to mirror these changes. As a result of these modifications the Relay Ground Station-HEO (RGS-H) will have the capability to process data from 3 HEO payloads on each of its 2 data processing strings.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
SBIRS MOBILE SYSTEM & FIXED SITE COMM ELECTRONIC UPGRADES	A						$6,508			$3,952			$1,947
SBIRS GROUND SYSTEM MODIFICATIONS	A												$78,458
TOTALS:							$6,508			$3,952			$80,405

Remarks:

Total Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
SBIRS MOBILE SYSTEM & FIXED SITE COMM ELECTRONIC UPGRADES									
FY2007(1-5)			AFSPC/SMC	OTH/CPFF	MULTIPLE	Oct-06	Mar-07		
FY2008(1,3)			AFSPC/SMC	OTH/CPFF	LOCKHEED MARTIN SPACE SYSTEMS/ SUNNYVALE, CA	Feb-08	Jan-09	Yes	
FY2009(1-3,5)			AFSPC/SMC	OTH/CPFF	MULTIPLE	Jan-09	Jan-10	Yes	
SBIRS GROUND SYSTEM MODIFICATIONS									
FY2009(6-7)			AFSPC/SMC	SS/CPIF	LOCKHEED MARTIN SPACE SYSTEMS/ SUNNYVALE, CA	Jan-09	Mar-12	Yes	

Remarks:

(1) Unit costs and quantities vary due to multiple types of computer hardware being procured.
(2) Procurement for SBIRS Mobile Site comm electronics upgrades will use a blanket purchase agreement (BPA) via DISA.
(3) Procurement for SBIRS Fixed Site comm electronics Upgrades is a modification to the SBIRS Engineering and Manufacturing Development (EMD) contract awarded to Lockheed Martin Space Co., Sunnyvale, CA, in November 1996.
(4) FY07: $5.46M awarded to Lockheed Martin EMD contract; $713K awarded on Northrop Grumman Contract; $313K awarded to DISA contract.
(5) Procurement will include both Mobile System upgrades (on DISA contract) and Fixed Site upgrades (on EMD contract).
(6) SBIRS Follow-on Production (SFP) contract for approximately $77.9M of Ground system modifications is a planned sole source contract with a hybrid CPIF/CPAF incentive structure. Contract award is scheduled for January 2009.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(7) RGS-H installation effort for approximately $1.1M will be completed by classified Host program office. PCO location, contract type, and delivery dates can not be provided due to classified status of effort.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NAVSTAR GPS SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$5,704	$13,981	$25,526	$9,608	$15,701	$21,753	$14,437

Description:

The Navstar Global Positioning System (GPS) provides highly accurate time and three-dimensional position and velocity information to an unlimited number of users anywhere on or above the surface of the earth, in any weather. GPS satisfies validated joint service requirements for worldwide, accurate, common grid navigation for military aircraft, ships, ground vehicles and personnel. The system is comprised of three segments: (1) satellites, (2) a control network and (3) user equipment. The satellites broadcast high-accuracy data using precisely synchronized signals that are received and processed by user equipment installed in military platforms. The control network updates the navigation messages broadcast from the satellites to provide system vectors to target location or navigational way points. DoD handheld user equipment consists of Precision Lightweight GPS Receivers (PLGR) and all in-view receivers such as the Defense Advanced GPS Receiver (DAGR). FY09 GPS funding provides for increased anti-jam capabilities on GPS user equipment (UE) and M-code UE development (M-code is new advanced military code that makes up part of GPS modernization capabilities). Development funding for Navstar GPS is in Program Element (PE) 0305164F, NAVSTAR Global Positioning System User Equipment Space. Development funding for the OCX is in PE 0603421F, Global Positioning System through FY08 and in PEs 0603427F and 0603423F from FY09 through the FYDP.

1. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR): FY09 funds provide software modification fielding for the PLGR, a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information. This non developmental item supports Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordinance Disposal (EOD) teams, Security Forces and Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for secure communications systems. The Air Force has lead service responsibility for DoD for PLGR procurement.

2. KEY DATA LOADING INSTALLATION FACILITY (KLIF)/GPS SECURITY DEVICE: FY09 funding provides for the programming of black key (cryptographic) algorithms into the Selective Availability Anti-Spoofing Module (SAASM), providing an accurate positioning solution for GPS users using secure equipment. FY09 funds will procure support for Key Data Processors (KDP), ensuring uninterrupted support to SAASM vendors. SAASM vendors are required to use government-provided KDP as part of the security architecture.

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Description (continued):

3. DEFENSE ADVANCED GPS RECEIVER (DAGR): FY09 funding procures military secure handheld GPS receivers (i.e., DAGRs). DAGR, the follow-on to the PLGR, is the current generation self-contained handheld GPS receiver with precise positioning using SAASM. It is interoperable with existing PLGR interfaces and support equipment so present integration and support capabilities are minimally affected. DAGR is primarily used in the stand-alone mode but also is integrated in wheeled and tracked vehicles, in airborne and air-drop operations, and in weapons integration. The Air Force has lead service responsibility for DoD for DAGR procurement.

4. HANDHELD TESTING SUPPORT: FY09 funding provides testing support for user equipment. Testing includes engineering change proposals and product improvements for DAGR.

5. OCS LAUNCH READINESS SUPPORT: No FY09 funding requested.

6. OCX MASTER CONTROL STATION (WITH SENSITIVE COMPARTMENTED INFORMATION FACILITY (SCIF)): OCX is the satellite ground control facility for the next generation GPS III system. OCX will include backward compatibility to operate Block II satellites as well as the ability to control evolving capabilities on GPS III satellites. FY09 funding procures external and internal equipment necessary to make the Master Control Station (MCS)/Alternate Master Control Station (AMCS) facilities functional. These items include HVAC, computers, printers, routers, communication equipment, storage devices and two SCIFs. Additionally, funding is required for Transition Support Facility, System Test Beds, Simulators and the Monitor Station Receiver Element.

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P-1 NOMENCLATURE:
NAVSTAR GPS SPACE

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
NAVSTAR GPS													
PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR)							$50			$40			$40
KLIF/GPS SECURITY DEVICE							$1,645			$4,311			$3,008
DAGR	A						$3,827			$3,514			$2,645
HANDHELD TESTING SUPPORT							$182			$182			$182
OCS LAUNCH READINESS SUPPORT										$5,934			
OCX MCS (W/SCIF)													$19,651
TOTALS:							$5,704			$13,981			$25,526

Remarks:
Total Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
DAGR									
FY2007(1)			AFSPC/SMC	OPT/FP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Jan-07	Jun-07		
FY2008(1)			AFSPC/SMC	OPT/FP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Jan-08	Jun-08		
FY2009(1)			AFMC/SMC	OPT/FP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Jan-09	Jun-09	Yes	

Remarks:

(1) Basic Contract (C/FP) awarded Oct 03 to Rockwell Collins, Cedar Rapids, IA. This is a long term contract with production options that can be exercised until FY11.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** NUDET DETECTION SYSTEM SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$12,783	$16,348	$27,626	$21,755	$10,442	$10,671	$10,905

Description:

The United States Nuclear Detonation (NUDET) Detection System (USNDS) collects and exploits critical information, disseminates this information to the proper organizations in a secure, survivable environment, and ensures critical Command, Control, Communications, and Computers Intelligence Surveillance, and Reconnaissance operations during and after weapons of mass destruction attacks. USNDS provides a worldwide, highly survivable capability to detect, locate, and report nuclear detonations in the earth's atmosphere or in near space, in near real time. USNDS supports NUDET detection requirements for US Northern Command (USNORTHCOM)/North American Aerospace Defense Command [Integrated Tactical Warning and Attack Assessment (ITW/AA)], US Strategic Command (USSTRATCOM) (Nuclear Force Management), and the Air Force Technical Applications Center (AFTAC) (Treaty Monitoring). USNDS consists of space and ground mission-processing segments. The space segment consists of NUDET detection sensors on both Global Positioning System satellites and Defense Support Program satellites. The ground mission processing segment consists of the Integrated Correlation and Display System (ICADS), Ground NDS Terminals (GNT), and DSP/NDS Advanced Radiation Detection Units (ARDU). Development funding is in Program Element 0305913F, NUDET Detection System (SPACE).

The GNT processes raw NDS sensor data and provides survivable NUDET detection, analysis, and reporting to the President, Congress, and Secretary of Defense. The ICADS receives daily navigation update messages and NUDET detection mission data from the satellites. Presently, the USNDS supports national-level missions for Air Combat Command, AFTAC, and the combatant commanders, including USSTRATCOM and USNORTHCOM. NUDET reporting is required for the ITW/AA, Nuclear Force Management, and nuclear test ban treaty monitoring missions.

1. ICADS UPGRADE: FY09 funding purchases computers and data acquisition equipment for ICADS Build 6 (III). This includes two complete strings of ICADS equipment to be delivered for installation and check out in early FY10. The data acquisition equipment involves the final production build year for antenna and receiver systems as well as completion of the build of the receiver test source.

2. GNT UPGRADES: FY09 funding purchases equipment for GNT Build 6 (III). This will include delivery of antenna and receiver systems to Sandia

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Description (continued):

National Labs (SNL) as well as production of Remote Equipment Shelter (RES) to house antennas and receivers for GNT.

3. SPACE AND ATMOSPHERIC BURST REPORTING SYSTEM (SABRS): FY09 funding for SABRS will purchase the Automated Data Processor (ADP) processing node and interface equipment for SABRS on SBIRS.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
NUDET DETECTION SYSTEM SPACE

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ICADS UPGRADE	A				$8,051		$11,548		$15,526
GNT UPGRADE	A				$3,832		$4,100		$11,500
SABRS	A				$900		$700		$600
TOTALS:					$12,783		$16,348		$27,626

Remarks:

Cost information is in thousands of dollars.

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
ICADS UPGRADE									
FY2007(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-06	Jun-08		
FY2008(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-07	Jun-09		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-08	Jun-10	Yes	
GNT UPGRADE									
FY2007(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-06	Jun-08		
FY2008(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-07	Jun-09		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-08	Jun-10	Yes	
SABRS									
FY2007(1-2)			AFSPC/SMC	MIPR/OTH/OTH	CLASSIFIED	Dec-06	Sep-08		
FY2008(1-2)			AFSPC/SMC	MIPR/OTH/OTH	CLASSIFIED	Dec-07	Sep-09		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	CLASSIFIED	Dec-08	Sep-10	Yes	

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

Remarks:

(1) Unit costs and quantities vary due to multiple types of computer hardware being procured.
(2) The contract type to the Department of Energy Sandia National Laboratory is cost reimbursement based on a Work for Others agreement.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** AIR FORCE SATELLITE CONTROL NETWORK SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$71,999	$49,664	$65,383	$62,689	$65,251	$66,535	$67,852

Description:

The Air Force Satellite Control Network (AFSCN) is a global infrastructure of control centers, remote tracking stations (RTS), and communications links providing highly reliable command, control, and communications (C3) support to the nation's surveillance, navigation, communications, and weather satellites. As the DoD common user network it provides state-of-health, tracking, telemetry, and commanding for the following operational satellite systems: Defense Meteorological Satellite Program; Global Positioning System; Defense Satellite Communications System; Defense Support Program; Fleet Satellite; Military Strategic and Tactical Relay; Skynet; North Atlantic Treaty Organization; and classified programs. The AFSCN also provides mandatory launch and early orbit tracking support for all major US launches. Development funding is in Program Element 0305110F, Satellite Control Network (SPACE).

This project procures mission critical electronics and telecommunications equipment to upgrade aging C3 and range elements. Principal efforts include:

1. NETWORK OPERATIONS UPGRADES: No FY09 funding requested.

2. RANGE AND COMMUNICATIONS UPGRADES: Several efforts are underway to improve and modernize AFSCN range and communications elements, including integrated pre-deployment hardware/software validation, antenna replacements, and equipment upgrades at the RTSs. These efforts significantly improve AFSCN capacity, reliability, and data quality to provide warfighters continuous, upgraded access to real-time operational data. FY09 funds procure RTS block changes, replacement antennas and data link terminals, and associated communications equipment to continue the upgrade.

3. INTERIM SUPPLY SUPPORT: FY09 funds provide Interim Supply Support to include support services, initial spares, common spares, and required reprocurement data for the Satellite Control Network Contract and to transition to government supply support.

4. PROGRAM SUPPORT: FY09 funds procure other support for the system program office including, but not limited to: engineering, cost estimating, contract reconciliation, configuration management, and information technology support, as well as other similar efforts.

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APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AIR FORCE SATELLITE CONTROL NETWORK SPACE

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT & MODERNIZATION (1)													
NETWORK OPERATIONS UPGRADES	A						$6,659						
RANGE & COMMUNICATIONS UPGRADES	A						$56,371			$36,057			$52,573
INTERIM SUPPLY SUPPORT							$1,710			$5,349			$4,541
PROGRAM SUPPORT (1)							$7,259			$8,258			$8,269
TOTALS:							$71,999			$49,664			$65,383

Remarks:
Total Cost information is in thousands of dollars.

(1) Additional testing support required for RTS upgrade first article project.

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P-1 NOMENCLATURE:
AIR FORCE SATELLITE CONTROL NETWORK SPACE

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT & MODERNIZATION									
NETWORK OPERATIONS UPGRADES									
FY2007(1-2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/ COLORADO SPRINGS, CO	Feb-07	Jun-07		
RANGE & COMMUNICATIONS UPGRADES									
FY2007(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Jan-07	May-07		
FY2008(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Dec-07	Apr-08		
FY2009(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Dec-08	May-09	Yes	

Remarks:

(1) Quantities and unit costs vary due to different types/configurations of equipment being procured. Delivery dates reflect first delivery date of multiple deliveries.
(2) Option to prior year Satellite Control Network Contract (SCNC) baseline awarded Dec 01, Honeywell Technology Solutions, Colorado Springs, CO. Basic contract period was for 6 years with three, 3-year options.
(3) An additional FFP contract is available to procure replacement network equipment for a classified user. Specs are currently available. Multiple awards and delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** SPACELIFT RANGE SYSTEM SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$117,310	$121,321	$101,983	$104,164	$105,444	$107,520	$109,648

Description:

FY08 funding totals do not include $20M FY08 GWOT requirements still pending congressional consideration.

The Eastern Range at Patrick Air Force Base/Cape Canaveral AFS, FL, and the Western Range at Vandenberg AFB, CA, make up the Spacelift Range System (SLRS). The SLRS provides tracking, telemetry, communications, flight analysis and other capabilities needed to safely conduct: national security, civil and commercial spacelift operations; intercontinental and sea-launched ballistic missile evaluations; national missile defense tests; and aeronautical and guided weapons tests. Reliability of aging range equipment is a major issue. It forces the AF to use redundant assets during launches to ensure range availability, needlessly increasing operations and maintenance costs.

The AF is addressing range shortcomings through modernization and recapitalization efforts under the SLRS program, also known as the Launch and Test Range System (LTRS) program. Modernization meets documented requirements for a standardized and automated spacelift range system to support the evolving launch mission. Recapitalization projects replace aging equipment with more reliable and sustainable equipment. Together these efforts improve range responsiveness to launch demands, enhance range safety, standardize logistics support, and reduce operations and maintenance costs. Development funding is in Program Element 0305182F, Spacelift Range System (SPACE), Project 674137.

The AF is implementing range modernization and recapitalization through two contracts. First, the Range Standardization and Automation (RSA) Phase IIA contract modernizes range control/display and communication systems. Second, the Spacelift Range System Contract (SLRSC) modernizes range instrumentation and executes proactive recapitalization projects to replace hardware no longer efficient or sustainable. Recapitalization efforts identified herein are representative of the projects to be pursued during execution years. Changing operational requirements and priorities, along with reliability, maintainability, and availability (RMA) status, will determine the final projects to be pursued each year. The following details highlight the FY09 efforts:

1. RANGE STANDARDIZATION and AUTOMATION Phase IIA: FY09 funding completes operational testing and turnover of Western Range flight

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Description (continued):

operations/analysis (safety) system, to include centralized telemetry processing system, and closes out contract.

2. SPACELIFT RANGE SYSTEM CONTRACT: The SLRSC modernizes range instrumentation and implements recapitalization efforts. It procures and integrates instrumentation components with associated test and interface equipment, downrange local control systems, and follow-on control/display and communications systems. Also, it executes recapitalization projects to fix equipment deficiencies, replace aging equipment, control obsolescence, reduce reliance on diminishing manufacturing resources, eliminate single points of failure, and reduce support costs. Prioritization of recapitalization projects depends on RMA status, operational considerations, and new requirements.

a. MODERNIZATION EQUIPMENT: FY09 modernization funds procure telemetry and command instrumentation, as well as test, interface and control equipment necessary to link instrumentation to communications and control/display systems to implement the SLRS architecture. This includes activation of the Western Range Operations Control Center.

b. RECAPITALIZATION: FY09 funds pay for recapitalization projects to replace, refurbish, or upgrade aging systems, such as: radar site computers/peripherals; radar transmitters; telemetry integrated processing systems; lightning warning systems; voice, video, and telemetry archiving systems**;** Doppler radar wind profilers; variable flight azimuth systems; command destruct message encoders/decoders; radar data handling systems; and, tracking station communications. Additionally, FY09 funds pay for recapitalization initial supply support to include: support services, spares transition packages, required reprocurement data, and transition common spares.

3. OTHER PROGRAM SUPPORT:

a. PROGRAM SUPPORT: FY09 funds support System Program Office activities to include: engineering, cost estimating, contract reconciliation, configuration management, information technology support, and other related program support.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** SPACELIFT RANGE SYSTEM SPACE

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
SPACELIFT RANGE SYSTEM SPACE (1)													
RSA PHASE IIA							{$25,080}			{$13,376}			{$2,162}
MODERNIZATION EQUIPMENT (1)	A						$16,752			$13,376			$2,162
INTERIM CONTRACTOR SUPPORT (1)							$8,328						
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)							{$73,573}			{$88,345}			{$79,121}
MODERNIZATION EQUIPMENT	A						$35,381			$44,465			$32,300
RECAPITALIZATION (1)							$28,676			$34,435			$36,585
INITIAL SUPPLY SUPPORT							$3,260			$3,357			$3,458
RECAP INITIAL SUPPLY SUPPORT							$6,256			$6,088			$6,778
PROGRAM SUPPORT							$18,657			$19,600			$20,700
TOTALS:							$117,310			$121,321			$101,983

Remarks:

Total Cost information is in thousands of dollars.

(1) Contract restructure extended Modernization into FY09 and rolled Interim Contractor Support into Modernization line, partially in FY07 and fully in FY08/09.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
SPACELIFT RANGE SYSTEM SPACE(1-3)									
RSA PHASE IIA									
MODERNIZATION EQUIPMENT									
FY2007(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/ SANTA MARIA, CA	Oct-06	Dec-06		
FY2008(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/ SANTA MARIA, CA	Oct-07	Dec-07		
FY2009(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/ SANTA MARIA, CA	Oct-08	Dec-08	Yes	
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)(3)									
MODERNIZATION EQUIPMENT									
FY2007(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/ CAPE CANAVERAL, FL	Oct-06	Feb-07		
FY2008(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/ CAPE CANAVERAL, FL	Nov-07	Feb-08		
FY2009(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/ CAPE CANAVERAL, FL	Oct-08	Feb-09	Yes	

Remarks:

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(1) Quantities vary due to numerous increments of products being delivered across fiscal years. Unit costs vary because of different types/configurations of equipment being procured. Dates shown for each FY reflect first contract option award date and first delivery date for goods or services for the contract in that FY.
(2) RSA Phase IIA contract, awarded in Nov 95 to Lockheed Martin, Santa Maria, CA, includes options for: hardware procurement; integration, testing, and refinement for operational acceptance; and interim contractor and supply support activities. These options run through FY09.
(3) SLRSC, awarded in Nov 00 to ITT Industries, Cape Canaveral, FL, includes options for: modernization and recapitalization efforts; sustaining engineering; interim supply support; configuration and data management; and depot-level maintenance. These options run through FY10.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** MILSATCOM SPACE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$75,254	$117,624	$106,323	$174,308	$213,126	$205,669	$157,582

Description:

FY2008 funding total includes a $1.6M Congressional add.

Military Satellite Communications (MILSATCOM) joint-service systems collectively provide a broad range of satellite communication capabilities, including secure, jam-resistant, 24-hour worldwide communications to meet essential strategic, tactical and general-purpose operational requirements. MILSATCOM Terminals support communications requirements for the President and Secretary of Defense, unified and specified combatant commanders, uniformed services and defense agencies. Development funding is in Program Element 0303601F, MILSATCOM Terminals, except where otherwise noted.

1. SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T) UPGRADE: SMART-T is a ground fixed and mobile Extremely High Frequency (EHF) terminal providing survivable, jam-resistant, worldwide, continuous secure communications to tactical warfighters. Currently, SMART-T terminals interoperate with the Milstar satellite constellation in Low Data Rate (LDR) mode at 2.4 Kbps and Medium Data Rate (MDR) mode at 1.5 Mbps. FY09 funds provide risk reduction and SPO resources for systems engineering and program support for twenty-six (26) existing Air Force terminals, completing a one-time procurement of (Army-developed) upgrades to take advantage of the Extended Data Rate (XDR) capability at 8.0 Mbps available with the upcoming Advanced EHF (AEHF) satellite constellation.

2. AIR FORCE WIDEBAND ENTERPRISE TERMINAL (AFWET): AFWETs (previously known as the Super High Frequency Terminals) operate over the Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) system to support the command and control requirements of unified and specified Combatant Commanders and the connectivity requirements of the President, Secretary of Defense, State Department, US strategic and tactical forces, the North Atlantic Treaty Organization (NATO), and United Kingdom Skynet network. The AF is responsible for providing facilities and procuring terminal equipment for selected locations that form part of the ground segment for large terminals. FY09 funds will enable equipment/facility upgrades at 26 sites worldwide to ensure continued operational mission success. These upgrades ensure operational viability while awaiting the next generation modernization in accordance with the Joint modernization schedule prioritized by Joint Staff and DISA. Additionally, FY09 funds procure

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
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Description (continued):

equipment to: 1) leverage WGS capabilities for interoperability with the Army, Navy, AF and State Department, and 2) modernize wideband terminals, sensor sites, DSCS hub stations, and the Jam-Resistant Secure Communications subnet (a network which provides jam-resistant, secure, nuclear-effects-protected MILSATCOM connectivity between selected Department of Defense (DoD) facilities, the President, Secretary of Defense and nuclear Combatant Commanders). Equipment procurement includes ground terminal modernization kits, fiber optic modems, patch panels, timing sources, interconnect facility links and equipment facilities.

3. GLOBAL BROADCAST SERVICE (GBS): This AF-led joint program implements a worldwide high-capacity satellite broadcast information system to provide a continuous, one-way, high-speed, high-volume flow of classified and unclassified data and imagery to garrisoned, deployed or moving forces. GBS currently provides DoD some relief from reliance on costly leased commercial satellite communications. GBS Receive Suites provide lower-echelon AF users with efficient high-data-rate in-theater and reachback connectivity to many distributed information sources via satellite-hosted GBS packages. Development funding is in Program Element 0603840F, Global Broadcast Service (GBS).

a. GBS RECEIVE SUITES: The receive suites link users to information sources via GBS, offering near-worldwide service. FY09 funds procure receive suites, upgrades, integration and installation, training, technical manual updates, systems engineering and program support.

4. GROUND MULTIBAND TERMINAL (GMT): GMT terminals support warfighter tactical communications requirements utilizing WGS, DSCS and commercial satellite systems. GMT provides flexible, lightweight, modular, scalable and integrated tactical quad-band SATCOM terminals which operate in X, C, Ku and military Ka-band frequencies. The GMT replaces increasingly unsupportable Ground Mobile Force (GMF) terminals that are reaching end of life. FY09 funds full-rate production of GMT terminals, Large Aperture Antennas (LAAs), system engineering and program support.

5. COMMAND AND CONTROL SYSTEM - CONSOLIDATED (CCS-C): No FY09 funds are requested.

6. MILSATCOM SUSTAINMENT MODIFICATIONS: Provides minor modifications for MILSATCOM systems currently in sustainment and those currently fielding. FY09 funds COTS hardware and software upgrades to replace obsolete components.

7. GROUND MOBILE SHELTERS: No FY09 funds are requested.

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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
1. SMART-T							{$596}			{$37,500}			{$1,581}
ADVANCED EHF UPGRADES	A									$37,000			$819
SYSTEM ENGINEERING							$301			$200			$320
PROGRAM SUPPORT							$295			$300			$442
2. AIR FORCE WIDEBAND ENTERPRISE TERMINAL (AFWET) {A.K.A. SHF TERMINALS}							{$11,788}			{$5,359}			{$5,563}
SHF/JRSC	A						$11,788			$5,359			$5,563
3. GBS							{$526}			{$3,825}			{$12,058}
GBS RECEIVE SUITES	A									$2,505			$9,345
INTEGRATION & INSTALLATION										$100			$1,300
SYSTEM ENGINEERING							$500			$673			$735
PROGRAM SUPPORT							$26			$547			$678

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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
4. GROUND MULTIBAND TERMINALS							{$62,202}			{$63,010}			{$86,865}
GROUND TERMINALS (1)	A						$59,815			$60,775			$83,958
SYSTEM ENGINEERING							$1,224			$960			$1,131
PROGRAM SUPPORT							$1,163			$1,275			$1,776
5. CCS-C										{$531}			
HARDWARE/SOFTWARE STRINGS	A									$531			
6. MILSATCOM SUSTAINMENT MODIFICATIONS							{$142}			{$257}			{$256}
MILSTAR SCMS MODS	A						$142			$257			$256
7. GROUND MOBILE SHELTERS										{$7,142}			
AEHF TERMINAL UPGRADES	A									$7,142			
TOTALS:							$75,254			$117,624			$106,323

Remarks:

Total Cost information is in thousands of dollars.

(1) FY2008 funding includes a $1.6M Congressional add for Ground Multiband Terminal (GMT).

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
1. SMART-T									
ADVANCED EHF UPGRADES									
FY2008(1)			USCENTCOM	MIPR/FFP	ARMY/ RAYTHEON/ MARLBOROUGH, MA	Jan-08	Jan-11		
FY2009(1)			USCENTCOM	MIPR/FFP	ARMY/ RAYTHEON/ MARLBOROUGH, MA	Jan-09	Jan-11	Yes	
2. AIR FORCE WIDEBAND ENTERPRISE TERMINAL (AFWET) {A.K.A. SHF TERMINALS}									
SHF/JRSC									
FY2007(2)			AFMC/ESC	MIPR/C/FFP	ARMY/ MULTIPLE	Feb-07	May-07		
FY2008(2)			AFMC/ESC	MIPR/C/FFP	ARMY/ MULTIPLE	Feb-08	May-08		
FY2009(2)			AFMC/ESC	MIPR/C/FFP	ARMY/ MULTIPLE	Feb-09	May-09	Yes	
3. GBS									
GBS RECEIVE SUITES									
FY2008			AFMC/ESC	C/FFP	UNKNOWN	Nov-08	Aug-09	Yes	

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009			AFMC/ESC	C/FFP	UNKNOWN	Nov-08	May-09	Yes	
4. GROUND MULTIBAND TERMINALS									
GROUND TERMINALS									
FY2007(3)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-07	Sep-07		
FY2008(3)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Dec-07	May-08		
FY2009(3)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-09	Sep-09	Yes	
5. CCS-C									
HARDWARE/SOFTWARE STRINGS									
FY2008(4)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./ LANHAM, MD	Nov-07	Apr-08		
6. MILSATCOM SUSTAINMENT MODIFICATIONS									
MILSTAR SCMS MODS									

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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/ SUNNYVALE, CA	Feb-07	May-08		
FY2008			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/ SUNNYVALE, CA	Feb-08	May-08		
FY2009			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/ SUNNYVALE, CA	Feb-09	May-09	Yes	
7. GROUND MOBILE SHELTERS									
AEHF TERMINAL UPGRADES									
FY2008			AFMC/SMC	SS/FFP	RAYTHEON/ RESTON, VA	Dec-07	Mar-09		

Remarks:

(1) Army conducted all RDT&E prior to production; funds for upgrades are MIPR'ed to the Army to leverage the Army production contract.
(2) Multiple contractors through multiple government agencies (GSA, DLA, NSA, Army CECOM, or individual bases depending on requirements) with multiple contract award/delivery dates. Award/delivery dates reflect first award and delivery dates.
(3) Base contract awarded Mar 06 (5 option years).
(4) Base contract awarded in Mar 02 (8 option years)

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		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$23,895	$26,295	$23,121	$23,239	$21,191	$83,198	$84,972

Description:

Space Mods Space enables the development of advanced Command and Control (C2) Battle Management, Intelligence Surveillance and Reconnaissance (ISR), and Command, Control, Communications, Computers, and Intelligence (C4I) systems to conduct effective predictive battle space awareness, facilitate precision attack, and compress the sensor-to-shooter kill chain. Permanent modifications are configuration changes to in-service systems and equipment that correct materiel or other deficiencies, or that add or delete capability. Safety modifications correct deficiencies that produce hazards to personnel, systems, or equipment. This budget line covers both new and on-going modification efforts for space equipment and systems. Modification installation funding is budgeted in the year the installation occurs.

1. NAVSTAR GLOBAL POSITIONING SYSTEM (GPS): The NAVSTAR GPS provides highly accurate time and three-dimensional position and velocity information to an unlimited number of users anywhere on or above the surface of the earth, in any weather. This system supplies highly accurate position, velocity, timing, and Nuclear Detonation (NUDET) Detection System (NDS) information to properly equipped air, land, sea, and space-based users worldwide. The GPS system consists of three segments: Space Segment, Control Segment, and the User Segment. The Operational Control System (OCS) is part of the control segment and requires modifications to replace high failure rate parts and preclude system operational degradation. Without these mods, aging and obsolete equipment will excessively degrade, ultimately resulting in system failure. System failure or even partial system failure will cause a loss of operational availability and the transmission of inaccurate navigation data to worldwide users, resulting in potential loss of life and/or operational equipment, including multi-million dollar satellites. Development funding is in Program Element 0305165F, NAVSTAR Global Positioning System (Space and Control Segments).

a. OCS COTS UPGRADE: This modification procures replacement of existing GPS OCS commercial equipment that has become obsolete/unsupportable. FY09 funding will procure Zero Age of Message and Data Service (ZMDS) and Assured Communications System (ACS) equipment, and Ground Antenna Pedestal Upgrade (GAPU) installations.

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Description (continued):

b. RADOME REPLACEMENT: No FY09 funding requested

2. 474N SEA-LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM:

The primary mission of the 474N SLBM Detection and Warning System is to provide United States Strategic Command (USSTRATCOM) with credible integrated tactical warning/attack assessment (ITW/AA) data on all SLBMs penetrating the coverage area. This data includes an estimation of launch and predicted impact (L&PI) locations and times. The secondary mission is to provide the Cheyenne Mountain Air Force Station, CO (CMAFS) and other users with ITW/AA data on Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. Additionally, PARCS and PAVE PAWS support the Space Situational Awareness (SSA) mission by providing the Space Surveillance Network (SSN) with near-earth satellite surveillance, tracking and identification as required by the Space Control Center, Alternate Space Control Center, and the Joint Intelligence Center. The sensors have an operational availability requirement of 98 percent.

The 474N SLBM Detection and Warning System currently consists of: a) the AN/FPQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and, b) the AN/FPS-123 PAVE PAWS System (Phased Array Radars for SLBM Detection and Warning System). At Beale AFB, CA, the radar has completed Upgraded Early Warning Radar (UEWR) modifications, changing the AN/FPS-123 PAVE PAWS radar to a AN/FPS-132 configuration.

a. PERIMETER ACQUISITION RADAR ATTACK CHARACTERIZATION SYSTEM (PARCS): PARCS is a ground-based radar system located at Cavalier Air Station (AS), ND. It is a single faced, long-range, phased array radar whose primary mission is to provide USSTRATCOM with credible ITW/AA data on all SLBM and ICBMs penetrating the coverage area. The secondary mission is to support the SSA mission by providing the SSN with metric observations and Space Object Identification (SOI) data on tasked satellites and objects. This one-of-a-kind system was developed in the early 1970's, and has operated continuously since 1977.

PARCS EVOLUTIONARY MODERNIZATION: FY09 funding for PARCS Evolutionary Modernization program procures modifications to replace unsupportable and unreliable system components. PARCS equipment is composed of unique, custom-built components that became obsolete in the early 1980s. Most spare parts for this equipment are no longer available. Without these modifications there is a high risk that equipment failures will cause unacceptable mission downtime in order to troubleshoot and repair. FY09 will fund: (1) Mission Software Emulator (Replace), Mod #10MS-03-003, and (2) Frequency Test Set, Modifications

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Description (continued):

b. PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS): No FY09 funding requested.

3. AIR FORCE SPACE SURVEILLANCE SYSTEM (AFSSS) EVOLUTIONARY MODERNIZATION: The AFSSS includes both the Air Force Space Surveillance Fence and the Alternate Space Control Center (ASCC). The AFSSS is a segment of the Space Surveillance Network (SSN). The radar generates a radio frequency "fence" which can detect earth orbiting objects passing through it, out to 24,000+ kilometers. It provides this data to the Space Control Center (SCC) in support of the space surveillance mission. The ASCC serves as the operational backup to the primary SCC in the Cheyenne Mountain Operations Center, CO. The AFSSS supports Air Force Space Command mission responsibilities for cataloging and maintenance of the catalog of satellite payloads and debris, New Foreign Launch orbit determination, and collision avoidance. The FY09 AFSSS modernization effort consists of modifications that replace unsupportable and unreliable system components as follows:

a. TRANSMITTER/RECEIVER SUBSYSTEM REFRESH: FY09 funds procure and install the Transmitter Controller prototype and associated components, which were developed in FY08. Project includes the procurement of a modernized replacement of the utility bus and associated components. Project further includes reverse engineering and procurement of obsolete parts for the VHF Fence.

b. MISSION PROCESSING SYSTEM: FY09 funds will modernize and upgrade computational processors, system processors, and work stations. Modernization project will include procurement and deployment for hardware and related software.

4. INTEGRATED SPACE SITUATION AWARENESS: The Integrated Space Situation Awareness (ISSA) program provides space intelligence, surveillance, reconnaissance (including force status), and environment information and services to all users, including commercial, allied, public and foreign interests (CAFI), in the Joint Space Mission Operations Enterprise in support of US Strategic Command Joint Functional Component Commander, Space priorities. The surveillance and reconnaissance parts of ISSA were formerly known as the Space Situation Awareness (SSA) Foundational Enterprise (SSAFE). This mod will provide operational (with back-up) and development/test environments offering net-centric exposure of the high-accuracy space catalog and related fusion capabilities for producing responsive, integrated SSA.

SPACE SITUATION AWARENESS FOUNDATIONAL ENTERPRISE: This effort provides an operational, sustainable environment for algorithms and functionality that fuse data from space intelligence, surveillance, reconnaissance, and environment, along with blue force status and CAFI

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Description (continued):

information. FY09 funding will procure computer equipment and software licenses for the Joint Space Operations Center (JSpOC) primary and backup locations and the prototype, test and training facility. Development funding is in Program Element 0604425F, Space Situation Awareness Systems.

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WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
1. NAVSTAR GPS							{$10,763}			{$5,328}			{$5,248}
OCS COTS UPGRADE	A						$9,151			$5,328			$5,248
RADOME REPLACEMENT	A						$1,612						
2. 474N SEA LAUNCHED BALLISTIC MISSILE (SLBM), DETECTION AND WARNING SYSTEM													
PARCS													
PARCS EVOLUTIONARY MODERNIZATION							{$8,451}			{$5,014}			{$4,250}
MISSION SOFTWARE EMULATOR (REPLACE), MOD #10MS-03-003	A						$7,922			$3,200			$3,665
FREQUENCY TEST SETS, MOD	A						$473			$1,639			$369
INTERIM SUPPLY ACTIVITY							$56			$175			$216
PAVE PAWS													
PAVE PAWS EVOLUTIONARY MODERNIZATION	A									$11,161			
3. AFSSS EVOLUTIONARY MODERNIZATION							{$4,681}			{$4,792}			{$4,614}
TRANSMITTER/RECEIVER SUBSYSTEM REFRESH	A						$4,681			$2,995			$2,889
MISSION PROCESSING SYSTEM	A									$1,797			$1,725

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APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
SPACE MODS SPACE

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
4. INTEGRATED SPACE SITUATION AWARENESS													{$9,009}
SPACE SITUATION AWARENESS FOUNDATIONAL ENTERPRISE	A												$9,009
TOTALS:							$23,895			$26,295			$23,121

Remarks:
Total Cost information is in thousands of dollars.

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INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

DATE: FEBRUARY 2008

Modification Title and No: OCS COTS Upgrade

Models of System Affected: Operational Control Segment (OCS)

Description/ Justification: This modification procures replacement of existing GPS OCS equipment that has become obsolete or unsupportable by the original vendors who have replaced them with new products. FY09 funding will procure Zero Age of Message and Data Service (ZDMS) and Assured Communications System (ACS) equipment and Ground Antenna Pedestal Upgrade (GAPU) installations. If not funded, downtime and maintenance costs associated with repair of failed equipment will increase, lowering system operational availability. Future funding will replace obsolete unsupportable equipment identified by prior year obsolescence studies.

Development Status/Major Development Milestones: GAPU - PDR: SEP 07; CDR: NOV 07; FQT: JUL 08

FINANCIAL PLAN $ (in Millions)	PY		FY2007		FY2008		FY2009		FY2010		FY2011		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														
Total RDT&E Costs														
Procurement														
Equipment Kits	8	2.394	8	3.466	8	2.72	8	2.72	10	2.9	8	2.9	50	17.1
Equipment Kits non-recurring		3.006		3.656		0.408		0.386		1.371		2.35		11.177
Engineering Change Orders														
Data		0.102		0.1		0.1		0.1		0.1		0.1		0.602
Training Equipment														
Support Equipment														
Software		1.02		0.729		0.9		0.842		0.88		0.879		5.25
Interim Contractor Support														
Other														
Total Procurement Costs	8	6.522	8	7.951	8	4.128	8	4.048	10	5.251	8	6.229	50	34.129
Hardware Installation														
PY Eqpt (8 kits)	8	1.2											8	1.2
FY07 Eqpt (8 kits)			8	1.2									8	1.2
FY08 Eqpt (8 kits)					8	1.2							8	1.2
FY09 Eqpt (8 kits)							8	1.2					8	1.2
FY10 Eqpt (10 kits)									10	1.4			10	1.4
FY11 Eqpt (8 kits)											8	1.2	8	1.2
Total Installation Costs	8	1.2	8	1.2	8	1.2	8	1.2	10	1.4	8	1.2	50	7.4
Total Modification Costs	8	7.722	8	9.151	8	5.328	8	5.248	10	6.651	8	7.429	50	41.529

Method of Installation: CONTRACTOR, FIELD INSTALL

Admin. Lead-time(After 1 Oct): 2 Month(s)

Production Lead-time: 2 Month(s)

Contract Date:	**PY**	Mar 06	**FY2007**	Jan 07	**FY2008**	Jan 08	**FY2009**	Jan 09	**FY2010**	Jan 10	**FY2011**	Jan 11
Delivery Date:	**PY**	Jul 06	**FY2007**	Mar 07	**FY2008**	Mar 08	**FY2009**	Mar 09	**FY2010**	Mar 10	**FY2011**	Mar 11

Installations:	PY	FY2007				FY2008				FY2009				FY2010				FY2011				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input			8				8				8				10				8			42
Output				8				8				8				10				8		42

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INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

DATE: FEBRUARY 2008

Modification Title and No: Integrated Space Situation Awareness (ISSA)

Models of System Affected: Joint Space Operations Center (JSpOC)

Description/ Justification: Replaces the legacy SPADOC and provides an operational, sustainable environment for which to migrate existing algorithms and functionality from SPADOC and additional capabilities that fuse data from space intelligence, surveillance, reconnaissance and environmental sources. If not funded, the Integrated Space Situation Awareness (ISSA) program will be unable to provide operational (with back-up) and development/test environments for which to host the high-accuracy space catalog and additional fusion capabilities to produce responsive, integrated SSA for the warfighter. This modification will purchase and test Commercial-Off-the-Shelf (COTS) hardware, firmware and software licenses for use in an operational environment.

Development Status/Major Development Milestones: KDP-B -- TBD

FINANCIAL PLAN $ (in Millions)	PY		FY2007		FY2008		FY2009		FY2010		FY2011		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														
Total RDT&E Costs														
Procurement														
Equipment Kits							4	8.876					4	8.876
Equipment Kits non-recurring														
Engineering Change Orders														
Data														
Training Equipment														
Support Equipment														
Software														
Interim Contractor Support														
Other														
Total Procurement Costs							4	8.876					4	8.876
Hardware Installation														
PY Eqpt (0 kits)														
FY07 Eqpt (0 kits)														
FY08 Eqpt (0 kits)														
FY09 Eqpt (4 kits)							4	0.133					4	0.133
FY10 Eqpt (0 kits)														
FY11 Eqpt (0 kits)														
Total Installation Costs							4	0.133					4	0.133
Total Modification Costs							4	9.009					4	9.009

Method of Installation: CONTRACTOR, FIELD INSTALL

Admin. Lead-time(After 1 Oct): 3 Month(s)

Production Lead-time: 6 Month(s)

Contract Date:	**PY**	**FY2007**	**FY2008**	**FY2009** Jan 09
Delivery Date:	**PY**	**FY2007**	**FY2008**	**FY2009** Jun 09

Installations:	PY	FY2007				FY2008				FY2009				FY2010				FY2011				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input										4												4
Output											4											4

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COUNTERSPACE SYSTEMS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$30,226	$22,691	$29,232	$27,925	$19,236	$18,809	$19,136

Description:

COUNTERSPACE SYSTEMS includes systems to disrupt, deny, degrade or destroy an adversary's space systems or the information they provide (Offensive Counterspace), and active and passive measures to protect US and friendly space-related capabilities from enemy attack or interference (Defensive Counterspace). Current programs are Rapid Attack Identification Detection and Reporting System (RAIDRS), a Defensive Counterspace (DCS) program and Counter Communications System (CCS), an Offensive Counterspace (OCS) program. Developmental funding for RAIDRS and CCS is in Program Element 0604421F, Counterspace Systems.

1. RAPID ATTACK IDENTIFICATION DETECTION AND REPORTING SYSTEM (RAIDRS): The RAIDRS program performs attack detection, geolocation, reporting, characterization and mission impact assessment for US owned, operated or used space systems. RAIDRS capabilities, in support of the National Security Strategy of the United States, are procured and deployed in blocks. The first Block (RB-10) is focused on detecting, characterizing, geolocating and reporting satellite communications (SATCOM) radio frequency interference (RFI) using currently existing Commercial-Off-the-Shelf (COTS) and Government-Off-the-Shelf (GOTS) technology. The event information provided by RB-10 will allow operators to identify possible interference against space capabilities and enable rapid employment of protective responses.

a. INTERFERENCE DETECTION SENSORS: Previously named "Fixed Interference Detection System". Funding in FY09 provides for the production and fielding of 6 Interference Detection Sensors (IDS) to detect, characterize and report SATCOM RFI. The IDS sensors have a unique configuration, depending on the protected frequency band, and are installed at the fixed sites and deployables to maximize coverage.

b. FIXED INTERFERENCE DETECTION/GEOLOCATION SYSTEM: Funding in FY09 provides for the production and fielding of two Interference Detection/Geo-location Systems (IDS/GLS), consisting of large aperture ground antennas and associated sensors to determine the source of and report SATCOM RFI. Each fixed IDS/GLS is installed at a different site to maximize global coverage.

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Description (continued):

c. DEPLOYABLE INTERFERENCE DETECTION/GEOLOCATION SYSTEM: No FY09 funds are requested.

d. SITE ACTIVATION: Funding in FY09 provides engineering activities at the fixed IDS/GLS locations.

2. COUNTER COMMUNICATIONS SYSTEM (CCS): The CCS program prevents adversaries from employing satellite communications against the United States and its allies. CCS is a ground-based transportable radio frequency (RF) jammer that interferes with adversary command and control (C2) and propaganda transmitted via satellite.

a. CCS UPGRADES: Funding in FY2009 provides for the production, integration and fielding of an advanced counter communications upgrade to increase the capability of fielded CCS units.

b. BLOCK 10 CCS: No FY09 funds requested.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COUNTERSPACE SYSTEMS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
RAPID ATTACK IDENTIFICATION DETECTION AND REPORTING SYSTEM							{$13,740}			{$22,691}			{$20,191}
INTERFERENCE DETECTION SENSOR	A									$9,450			$3,530
FIXED INTERFERENCE DETECTION/GEOLOCATION SYSTEMS	A									$11,030			$12,350
DEPLOYABLE INTERFERENCE DETECTION/GEOLOCATION SYSTEM	A						$10,460						
SITE ACTIVATION (1)							$3,280			$2,211			$4,311
COUNTER COMMUNICATIONS SYSTEM							{$16,486}						{$9,041}
COUNTER COMMUNICATIONS SYSTEM UPGRADES	A						$4,394						$9,041
BLOCK 10 COUNTER COMMUNICATIONS SYSTEM	A						$12,092						
TOTALS:							$30,226			$22,691			$29,232

Remarks:

Total Cost information is in thousands of dollars.

(1) Site locations will be activated for the fixed Geo-location systems and fixed interference detection systems. Quantity and unit costs will vary depending on site configuration.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2008		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: COUNTERSPACE SYSTEMS				
ITEM NAME/ FISCAL YEAR	**QTY.**	**UNIT COST**	**LOCATION OF PCO**	**CONTRACT METHOD & TYPE**	**CONTRACTOR AND LOCATION**	**AWD. DATE**	**DATE FIRST DEL.**	**SPECS AVAIL NOW**	**DATE REV. AVAIL**
RAPID ATTACK IDENTIFICATION DETECTION AND REPORTING SYSTEM									
INTERFERENCE DETECTION SENSOR									
FY2008(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Feb-08	Sep-08	Yes	
FY2009(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-09	Sep-09	Yes	
FIXED INTERFERENCE DETECTION/GEOLOCATION SYSTEMS									
FY2008(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Nov-07	Jul-10		
FY2009(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-09	Mar-11	Yes	
DEPLOYABLE INTERFERENCE DETECTION/GEOLOCATION SYSTEM									
FY2007(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Apr-07	Aug-08		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COUNTERSPACE SYSTEMS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
COUNTER COMMUNICATIONS SYSTEM									
COUNTER COMMUNICATIONS SYSTEM UPGRADES									
FY2007(2)			AFSPC/SMC	SS/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Jan-07	Jan-08		
FY2009(3)			AFSPC/SMC	OPT/CPIF	GENERAL DYNAMICS/ SANTA CLARA, CA	Nov-08	May-09	Yes	
BLOCK 10 COUNTER COMMUNICATIONS SYSTEM									
FY2007(2)			AFSPC/SMC	SS/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Jan-07	Jan-08		

Remarks:

(1) RAIDRS: Basic contract FA 8819-05-C0018 awarded Feb 05 with 3 production option years (07,08,09) to Integral Systems Inc., Lanham, MD.
(2) Sole-source contract #8819-07-C-0003, awarded 28 Feb 07 to Harris Corp., Melbourne, FL; approved by AFPEO SPACE (SMC/CC) in April 2006.
(3) General Dynamics Development contract # 8819-07-C-0004, awarded 1 Jun 2007, with pre-priced procurement options for FY09 and FY10.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$183,400	$206,624	$293,153	$339,782	$396,449	$459,841	$498,986

Description:

FY2007 funding total includes $34.75M in GWOT supplemental funding.
FY2008 funding total includes $5.9M in Congressional adds and $8.1M in GWOT supplemental funding.
FY2008 funding total does not include $3.0M in FY2008 GWOT requirements still pending Congressional consideration.

The Tactical Communications-Electronics (C-E) equipment procurement program acquires essential Command, Control, Communications and Computer (C4) systems and program office support to satisfy requirements for Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces in Europe (USAFE), Pacific Air Forces (PACAF), Air Force Special Operations Command (AFSOC), Air Force Reserve Command (AFRC) and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in the Ground Theater Air Control System (GTACS) and combat communications units and procure the next generation of lightweight tactical communications equipment supporting worldwide flying operations.

1. THEATER-DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: TDC is a critical component of the deployed communications architecture throughout OPERATION ENDURING FREEDOM (OEF) and OPERATION IRAQI FREEDOM (OIF), performing with unprecedented success by providing common-user C4 and information capabilities in a bare-base environment. The TDC program provides telephone/computer networking services to deployed Air Force units. TDC supports a wide range of mission areas and users. For both AMC and AFSOC, TDC provides combat communications capability critical to support Aerospace Expeditionary Force (AEF) operations. In addition, TDC supports joint operations through its link into the joint tactical communications architecture. TDC plays a major role in the successful implementation of the Global Broadcast Service (GBS) to disseminate timely intelligence information to the warfighter. TDC supports the ground dissemination of GBS information. TDC is not dependent on any other program, but interfaces with Army/Marine Corps tactical communications programs (joint interoperability), Standardized Tactical Entry Point (STEP)/Teleport programs (joint interoperability) and Wideband Gapfiller SATCOM/Ground Multiband Terminal (GMT) (interoperability).

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT

Description (continued):

TDC is composed of three components: Hub and Spoke Satellite Terminals, Integrated Communications Access Packages (ICAP) and Network Control Centers - Deployed (NCC-D). Together, these three systems provide the communications infrastructure for deployed, austere and bare base operational areas. TDC connects all levels of users, from individual bases up to the President and Secretary of Defense, using various C4 and Intelligence (C4I) applications and the World Wide Web. TDC funding supports Expeditionary Communications Packages Air Operations Centers (AOCs), which enables the Joint Force Air Component Commander (JFACC) to exercise Command and Control (C2) of aerospace forces in support of the Joint Force Commander's (JFC) campaign plan, Air Support Operations Centers (ASOCs) and Control and Reporting Center/Deployed Radar (CRC/DR), as well as expeditionary and robusting units of the AEF. TDC is modular and adaptable, capable of supporting the war effort from deployment on day one to the buildup of a fully operational base. The program utilizes a continuous spiral process to upgrade fielded systems with updated communications capabilities and technologies to take advantage of commercial upgrades to meet evolving user requirements. TDC is an active participant in the Global War on Terror (GWOT); equipment is used extensively in support of both OEF and OIF and has been deployed to support humanitarian relief efforts. FY09 funds will upgrade and refresh TDC technology to keep pace with obsolescence, end-of-life, diminishing manufacturing sources, and mandated upgrades such as Internet Protocol Version 6 (IPv6), DoD security mandates, and cryptographic modernization (HAIPE). The specific upgrades are described in the paragraphs below:

a. HUB AND SPOKE SATELLITE TERMINALS: Satellite terminals provide two-way communications connectivity between deployed bases and command authorities at other locations. These terminals augment existing limited X-Band (Super High Frequency (SHF)) bandwidth by taking advantage of commercial satellite resources; this alleviates many operational problems due to military X-band channel capacity limitations. The relatively small size of these terminals significantly reduce airlift requirements and increase efficiency of deployment operations. FY09 funds will procure the latest configuration of equipment to maintain interoperability with the DoD Teleports and to keep pace with evolving technology and provide direct mission support.

b. INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): The ICAP program provides modular and scalable packages of hubs/routers, switches, multiplexers, on-base communications (lasers and microwave radios), cryptographic and timing equipment, secure voice conferencing and secure and nonsecure telephones. ICAP packages also include other accessories and configuration kits required to establish and maintain the deployed base infrastructure forming the communications backbone for a deployed base. Users plug their computer, telephones and fax machines into the backbone provided by ICAP, which is optimized for superior bandwidth efficiency, adaptability and airlift. ICAP employs "smart multiplexers," allowing sequencing of several messages over a single line, versus the multiple dedicated lines used in the legacy system. Additionally, ICAP packages come in multiple configurations that are scalable based on the size of the operational area and population. This allows for greater flexibility to meet different contingency operations. As subsequent airlift becomes available, additional packages can be added, building up to a full size, robust package. Funding includes

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

Description (continued):

implementation of a spiral upgrade/replacement process to incorporate new communications technologies and capabilities into the baseline. FY09 funds will continue to sustain current fielded capability, keep pace with evolving technology, perform some technology insertion, and provide direct mission support.

c. NETWORK CONTROL CENTER-DEPLOYED (NCC-D): NCC-D provides network management, information protection and network planning capabilities for deployed operations similar to those at fixed bases. Specific functions include data management, intrusion detection and firewall capabilities for both the classified and unclassified networks. All equipment is packaged in transit cases for deployed operations. FY09 funding provides direct mission support, and refreshes equipment to replace obsolete equipment and to meet new DoD mandates for Information Assurance and security.

2. TACTICAL AIR CONTROL PARTY MODERNIZATION (TACP-M): The TACP-M program enhances the ability of TACPs and Air Support Operations Centers (ASOCs) to interface with joint and multinational forces by replacing aging voice and digital communications and information systems equipment utilized by ACC, USAFE, PACAF and ANG TACPs and ASOCs. The TACP is a subordinate operational component of the theater air control system designed to provide air liaison to land forces and for the control of aircraft. The TACP is co-located with the senior Army operational command post from corps through battalion level and below, if jointly validated. It can also support other organizations (e.g., special operations, coalition forces and police) and other missions requiring long-haul communications or procedural airspace control. The TACP provides advice and assistance in planning for the employment of air and space power assets including, but not limited to: close air support (CAS); air interdiction; intelligence, surveillance and reconnaissance (ISR). TACPs and ASOCs are undergoing modernization efforts to: be more interoperable with the Army's transformed modular forces and net-centric operations, speed up and improve accuracy of CAS requests, improve operational effectiveness, and reduce the risk of fratricide. Remotely Operated Video Enhanced Receiver (ROVER) receivers will allow attack aircraft with targeting pods and Unmanned Aerial Vehicles (UAVs) equipped with ROVER transmitters to transmit streaming video to TACP personnel supporting ground commanders. TACPs prepare and submit immediate air support request to the ASOC using the Joint Air Request Net. It conducts detailed target planning and transmits a mission briefing to aircraft upon check-in. The TACP provides terminal attack control during attack execution and forwards battle damage assessment to C2 organizations. Development funds associated with this program are located in PE 0207423F.

The ASOC is the principle command and control node for integrating air and space power into counterland operations. A direct subordinate element of the air operations center (AOC), the ASOC's primary mission is to control air operations short of the fire support coordination line (FSCL), but it also engages with the AOC to ensure counterland airpower beyond the FSCL is executed in synchronization with land component priorities. The ASOC executes the air tasking order and provides procedural control of CAS assets within the supported ground commander's area of operations, processes CAS requests and controls the

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT

Description (continued):

flow of CAS aircraft. Normally co-located with the senior Army tactical echelon, ASOCs coordinate operations with their permanently aligned TACPs, Army Fire Support Cell (FSC) and AOC. The ASOC may also support units from other organizations (e.g., coalition forces), or augment other missions requiring procedural airspace control (e.g., humanitarian efforts).

The TACP/ASOC weapon system is comprised of four main components. The components listed below and depicted on Exhibit P-5 are representative of the types of Tactical C-E equipment required to provide TACP mission-critical capabilities and maintain operations effectiveness. Due to active TACP participation in GWOT and direct GWOT impact on user priorities, components procured during program execution may change to support user demand and mission-critical needs. The TACP-M program collaborates with the Battlefield Airmen (BA) program to standardize and gain cost efficiencies, when possible, for equipment consolidated procurements. Prime mission equipment is as follows:

a. LASER TARGETING DEVICES: Laser range finders and ancillary equipment provide the capability to detect targets and compute precise target coordinates for employment of GPS aided weapons, Joint Direct Attack Munition (JDAM), and Small Diameter Bomb (SDB) to reduce incidents of fratricide. Laser designators give TACP personnel the capability to guide laser guided munitions to precise target locations. The Air Force is participating in the Joint Requirements Oversight Council (JROC)-approved Joint Effects Target System (JETS) program that includes development and procurement of new handheld target location designation system (TLDS) laser devices for use by joint terminal attack controllers and artillery forward observers to improve target acquisition during all weather conditions. FY09 funding supports the increased number of Tactical Air Control Parties and Air Support Operations Centers supporting the expanded number of Army Brigade Combat Teams.

b. COMPUTERS: Ruggedized computers and ancillary equipment with GPS functionality and information software provide Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) digital communications with C2 nodes and attack aircraft, data link gateway functionality, terrain maps and imagery, Blue Force Situation Awareness (BFSA) displays and interoperability with Army systems in the battlefield environment. New modular ASOC computers, work stations, network servers and power/environmental control systems facilitate network connections with AOCs and Army networks that provide air operations data, BFSA information and ground force airspace control measures. FY09 funding will acquire the new lightweight (2.5 lbs.) small wearable computer, working with the BA program office. The JETS joint target effects coordination system (TECS) will procure computers and software capable of interoperable digital communications between joint Services' various C2 systems, thus enabling network-centric operations in the battlespace.

c. MANPACK/HANDHELD RADIOS: These multiband radios with ancillary equipment are capable of providing the required LOS and BLOS

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Description (continued):

digital communications connectivity needed to perform the TACP mission and reduce the weight of equipment carried by dismounted TACP. FY09 funds will procure JTRS Handheld Radios. Currently fielded radios provide basic digital communications, but fall short of full network-centric operations due to narrow bandwidths and relatively slow data transfer rates. TACP/ASOC manpack handheld radio capabilities will migrate to Joint Tactical Radio system (JTRS)-compliant systems or other emerging technologies as they become available.

d. TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS): Funds provide multiple radios, Remotely Operated Video Enhanced Receivers (ROVER) and computers with software, ancillary equipment and system integration for the TACP VCS. FY09 funds procure a VCS based on currently fielded radios to provide data link gateway capabilities for joint CAS operations on the digitized battlefield. It also procures Air Force TACP communications suites for installation in Mine Resistant Ambush Protected (MRAP) and Army Stryker armored vehicles designated for TACP use with Stryker Brigade Combat Teams (SBCT). The TACP-M program will provide a VCS using legacy technology, which will migrate to JTRS-compliant radios or other emerging technologies as they become available. In addition FY09 funds will procure an interim ASOC data link Gateway capability for joint CAS operations on the digitized battlefield; TACP communications suites for installation in Army Stryker armored vehicles designated for TACP use with Stryker Brigade Combat Teams (SBCT); receivers with computers, ancillary equipment, and control / display software.

e. REMOTE OPERATIONS VIDEO ENHANCED RECEIVER (ROVER): ROVERs allow attack aircraft with targeting pods and Unmanned Aerial Vehicles (UAVs) equipped with ROVER transmitters to transmit streaming video to personnel supporting ground commanders. FY09 Funds will procure non-vehicle mounted ROVER receivers, computers, software, ancillary equipment, and logistical support as required.

f. TACTICAL AIR CONTROL PARTY (TACP) CLOSE AIR SUPPORT SYSTEM (CASS): TACP CASS provides digital communications between the tactical air control party, close air support aircraft and various air and battlefield Command and Control (C2) and Situational Awareness (SA) systems. FY09 funding procure provides the system software to integrate data communications capabilities, mapping and navigation functions, SA display capabilities, and automated mission planning and execution functionality. The software will include interfaces for employing ASOC, TACP, and JTAC capabilities as an integrated system. This is a new start in FY09.

g. PROGRAM SUPPORT: FY09 funding includes provisions for government contract oversight, technical expertise and program management office support associated with the fielding of TACP Modernization

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Description (continued):

3. TACTICAL RADIO SYSTEMS/JTRS: The Joint Tactical Radio System (JTRS) will be a family of software programmable tactical radios that provide voice, data, and video communications for mobile military users in the air, on the ground, and on the sea. Common radio architecture and programmable software waveforms will provide joint interoperability for the services. The JTRS program is built around an open system Software Communications Architecture (SCA), a critical set of rules that make software programmable radios function properly and ensure interoperability. Development funds are in Program Element 0604280N, Joint Tactical Radio Systems (JTRS).

In 2005, the Department of Defense established the Joint Program Executive Office (JPEO). As such, the JPEO has full directive authority for all JTRS research, development, testing, and evaluation of waveforms, radios, common ancillaries, network management, and associated software. The AF will purchase JTRS, Government off the Shelf (GOTS) and/or Commercial off the Shelf (COTS) radios to meet interim operational requirements.

The AF JTRS program office (AF JTRS PMO) will develop and execute JTRS procurement and logistics strategies to meet AF warfighter requirements for tactical communications (e.g., vehicular, handheld, manpack/dismounted, fixed stations) by collaborating with JPEO JTRS, Global Cyberspace Integration Center (GCIC), TACP, Cryptologic Systems Group (CPSG), various AF Major Commands (MAJCOMs), and other services' JTRS program offices. This program supports procurement of prime mission equipment and will field tactical communication capabilities using legacy radios or other existing technologies to fulfill tactical communication requirements and worldwide flying operations until JTRS are available. FY09 funds will procure handheld tactical radio systems for AF ground users, to include handheld radios, base stations, vehicle adapters, and repeaters, as well as manpack and/or dismountable radios.

4. BATTLEFIELD AIR OPERATIONS KIT (BAO Kit): BAO Kit will develop and provide a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) suite for Air Force Special Operations Command's (AFSOC's) Battlefield Airmen. The enhanced capabilities provided by BAO Kit may be employed by other Air Force Battlefield Airmen when executing the following operational air and space power function: Joint Fires Integration, Tactical Airlift Operations, Special Operations, Weather Support Operations, and Personnel Recovery/Recovery Operations.

Battlefield Air Operations (BAO) Kit is a Family of Systems (FoS) that enhances the capabilities using Line of Sight (LOS) targeting, Beyond Line of Sight (BLOS) targeting, and human machine interface (HMI) while reducing the risk of fratricide and substantially reducing the weight carried by individual Airmen. BAO Kit will significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

Description (continued):

coordinates in three dimensions, generating target imagery both pre and post-strike, and transmitting target data to Command and Control centers. All BAO Kit systems are light, compact and portable for use by dismounted Battlefield Airmen. Components procured during program execution may change to support user demand and mission-critical needs as a result of Battlefield Airmen active participation in the GWOT and GWOT's direct impact on user priorities. Items procured are based on critical equipment needed to support current Air Force mission requirements. Development funds are in Program Element 0408011F, Special Tactics/Combat Control.

a. BEYOND LINE OF SIGHT (BLOS) TARGETING SYSTEM: Provides an expendable asset that can operate covertly to navigate, sense, map, reconnoiter, and identify points of interest in both permissive and non-permissive environments. The system allows Battlefield Airmen to rapidly adapt to the dynamic warfighting environment of the GWOT. The system provides increased situational awareness in a combat environment, enables ground-based Battlefield Airmen to find and track time-critical targets, and provides bomb damage assessment and force protection for forward-deployed troops. FY09 funds will be used to procure BLOS systems that will increase Special Tactics combat capability.

b. HUMAN MACHINE INTERFACE (HMI): Provides integrated operator interface between all the machine components through unified visual and auditory displays and controls, such as head-mounted displays and tactical earplug connectivity with communications. This system provides optimized user information portrayal and control of peripheral devices, to include modernization of communications, computing devices, portable electrical power generation and management (formerly BRITES), targeting and situational awareness software (Machine to Machine) designed to reduce risk of fratricide and reduce the time required to employ precision effects on the battlefield to single-digit minutes. Five sub-component projects managed separately prior to HMI CDD being approved in May 2007 make up the HMI program they are: Human I/O, Software, Power Generation and Management, Communication and Computers. FY09 funds will be used to procure BAO HMI systems including computers, power generation and management systems, headsets/head-mounted displays and communications equipment.

c. JOINT HELMET MOUNTED CUEING SYSTEM: No FY09 funding requested.

5. TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT: The Joint Terminal Controller Training and Rehearsal System (JTC TRS) project, under the Tactical Airborne Control System, funds developments necessary to provide a Distributed Mission Operations (DMO) capable high-fidelity Joint Terminal Attack Controller (JTAC), and Combat Control Team (CCT) training and rehearsal system. The JTC TRS will be able to connect to DMO networks to allow geographically separated high-fidelity close air support platforms, JTACs and CCTs to train together. The JTC TRS will enable operators to conduct Joint

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Description (continued):

Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. Furthermore, the system will be capable of providing air traffic control training for CCT using tactical application of austere airbase operations. Using a system of systems approach, JTC TRS shall have the capability to network, in Increment 1, to aircrew full mission trainers and mission training centers and, by Increment 2, to Air Support Operations Centers (ASOCs) for Joint Tactical Air Strike Requests and air-ground coordination of Joint Fires. JTC TRS will also allow JTACs and CCTs to use their actual equipment in the trainer. Its primary focus is to provide a persistent, total air-ground virtual training environment for networked air ground training and mission rehearsal capability that will develop both JTAC and CCT skills and train those air crews assigned to accomplish complex JCAS missions in close proximity to friendly ground forces. JTC TRS will be fully interoperable with joint/sister Service air ground simulation using industry standards.

FY09 funding procures high fidelity simulators for ACC TACPs designed to conduct stand alone and networked Terminal Control and Fire Support Coordination training and mission rehearsal applicable for Joint Terminal Attack Control (JTAC) personnel in all services.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
1. TDC PROGRAM							{$48,243}			{$53,081}			{$48,688}
a. HUB AND SPOKE SATELLITE TERMINALS	A						$8,269			$10,117			$9,689
b. INTEGRATED COMMUNICATIONS ACCESS PACKAGE	A						$31,938			$29,419			$27,620
c. NETWORK CONTROL CENTER-DEPLOYED	A						$3,485			$9,045			$6,879
d. PROGRAM SUPPORT							$4,551			$4,500			$4,500
2. TACP MODERNIZATION							{$87,217}			{$99,509}			{$139,305}
a. LASER TARGETING DEVICES (1)	A						$10,000			$6,417			$97,509
b. COMPUTERS	A						$10,763			$11,359			$2,605
c. MANPACK/HANDHELD RADIOS	A						$17,380			$46,351			$18,700
d. TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS)	A						{$17,012}			{$28,982}			
d.1. VEHICULAR COMMUNICATIONS SYSTEMS							$17,012						
d.2. MINE RESISTANT AMBUSH PROTECTED (MRAP) VEHICLE COMMUNICATIONS (2-3)										$28,400			
d.3 STRYKER VEHICLE COMMUNICATIONS										$582			
e. ROVER (4)	A						$30,677						$8,600

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
f. TACP CASS INTEGRATION	A												$5,262
g. PROGRAM SUPPORT							$1,385			$6,400			$6,629
3. TACTICAL RADIO SYSTEMS							{$39,264}			{$44,276}			{$87,548}
HANDHELD RADIO SYSTEMS (5)	A						$39,264			$42,587			$68,976
MANPACK RADIOS	A												$15,710
PROGRAM SUPPORT										$1,689			$2,862
4. BATTLEFIELD AIR OPERATIONS KIT							{$8,676}			{$9,758}			{$10,257}
a. BEYOND LINE OF SIGHT TARGETING SYS (6)	A						$6,698			$4,417			$3,243
b. HUMAN MACHINE INTERFACE	A						$778			$605			$5,713
c. JOINT HELMET MOUNTED CUEING SYSTEM (7)	A									$3,476			
d. PROGRAM SUPPORT							$1,200			$1,260			$1,301
5. TAC AIRBORNE CNTRL SYSTEM													{$7,355}
TAC AIRBORNE CNTRL SYSTEM	A												$7,355
TOTALS:							$183,400			$206,624			$293,153

Remarks:

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST

Total Cost information is in thousands of dollars.

(1) Includes $2.0M FY07 GWOT supplement for "BRITES"
(2) Includes $8.1M FY08 GWOT Supplement for "ROVER III Receiver"
(3) Includes $2.4M FY08 Congressional add for "ROVER III Receiver"
(4) Includes $19.6M FY07 GWOT supplement for "ROVER"
(5) Includes $8.65M FY07 GWOT supplement for "PRC-148 Tactical Radio System"
(6) Includes $4.5M FY07 GWOT supplement for "Beyond Line of Sight Targeting System"
(7) Includes $3.5M FY08 Congressional add for "Joint Helmet Mounted Cueing System"

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
TACTICAL C-E EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TDC PROGRAM									
HUB AND SPOKE SATELLITE TERMINALS									
FY2007(1-3)			AFMC/ESC	MIPR/FFP	NAVY/ MULTIPLE	Jan-07	Jan-08		
FY2008(1-3)			AFMC/ESC	MIPR/FFP	NAVY/ MULTIPLE	Jan-08	Jan-09		
FY2009(1-2,4)			AFMC/ESC	MIPR/C/FFP	MULTIPLE	Jan-09	Jan-10	Yes	
INTEGRATED COMMUNICATIONS ACCESS PACKAGE									
FY2007(1-2,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-06	Jun-07		
FY2008(1-2,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-08	Jun-08		
FY2009(1-2,4,6)			AFMC/ESC	MIPR/C/FFP	MULTIPLE	Dec-08	Jun-09	Yes	
NETWORK CONTROL CENTER-DEPLOYED									
FY2007(1-2,5)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-07	Jul-07		
FY2008(1-2,5)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-08	Jul-08		
FY2009(1-2,4-5)			AFMC/ESC	C/FFP	UNKNOWN	Jan-09	Jul-09	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
TACTICAL C-E EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TACP MODERNIZATION									
LASER TARGETING DEVICES									
FY2007(1-2)			AFMC/ESC	MIPR/FFP	ARMY/ ARMY/ NORTHRUP-GRUMMAN LASER LITTON/ APOPKA, FL	Aug-07	May-09		
FY2008(1-2)			AFMC/ESC	MIPR/FFP	ARMY/ ARMY/ NORTHRUP-GRUMMAN LASER LITTON/ APOPKA, FL	Nov-07	Dec-07		
FY2009(1)			AFMC/ESC	C/FFP	UNKNOWN	Nov-08	Sep-09	Yes	
COMPUTERS									
FY2007(1-2)			AFMC/ESC	C/FFP	DRS TACTICAL/ MELBOURNE, FL	Sep-07	May-08		
FY2008(1)			AFMC/ASC	OPT/FFP	GENERAL DYNAMICS/ SPOKANE VALLEY, WA	Apr-08	Jul-08	Yes	
FY2009(1)			AFMC/ASC	OPT/FFP	GENERAL DYNAMICS/ SPOKANE VALLEY, WA	Nov-08	Mar-09	Yes	
MANPACK/HANDHELD RADIOS									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
TACTICAL C-E EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(1-2)			AFMC/ESC	DO/FFP	THALES COMMUNICATIONS,INC./ CLARKSBURG, MD	May-07	Sep-07		
FY2008(1)			AFMC/ESC	DO/FFP	THALES COMMUNICATIONS,INC./ CLARKSBURG, MD	Apr-08	Aug-08	Yes	
FY2009(1)			AFMC/ESC	DO/FFP	THALES COMMUNICATIONS,INC./ CLARKSBURG, MD	Jan-09	Apr-09	Yes	
TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS)									
FY2007(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-06	Jun-07		
FY2008(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-07	Jun-08		
ROVER									
FY2007(2)			AFMC/ASC	OPT/FFP	L3 COM/ SALT LAKE CITY, UT	Sep-07	Jan-08		
FY2009(2)			AFMC/ASC	OPT/FFP	L3 COM/ SALT LAKE CITY, UT	Nov-08	Mar-09	Yes	
TACP CASS INTEGRATION									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
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ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009			AFMC/ESC	C/FFP	UNKNOWN	Oct-08	Sep-09	Yes	
TACTICAL RADIO SYSTEMS									
HANDHELD RADIO SYSTEMS									
FY2007(1)			AFMC/ESC	MIPR/FFP	NAVY SPAWAR SYSCEN - GTSI CORP/ CHANTILLY, VA	Sep-07	Jan-08		
FY2008(1)			AFMC/ESC	MIPR/FFP	NAVY SPAWAR SYSCEN - GTSI CORP/ CHANTILLY, VA	Jan-08	May-08		
FY2009(1)			AFMC/ESC	MIPR/FFP	NAVY SPAWAR SYSCEN - GTSI CORP/ CHANTILLY, VA	Jan-09	May-09	Yes	
MANPACK RADIOS									
FY2009(1)			AFMC/ESC	MIPR/FFP	ARMY/ UNKNOWN	Jan-09	May-09	Yes	
BATTLEFIELD AIR OPERATIONS KIT									

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
BEYOND LINE OF SIGHT TARGETING SYS									
FY2007(1,7)			AFMC/ASC	C/FFP W/OPT	AEROVIRONMENT/ SIMI VALLEY, CA	Dec-06	Aug-07		
FY2008(1,7)			AFMC/ASC	OPT/FFP	AEROVIRONMENT/ SIMI VALLEY, CA	Dec-07	Jul-08		
FY2009(1,7)			AFMC/ASC	OPT/FFP	AEROVIRONMENT/ SIMI VALLEY, CA	Dec-08	Jul-09	Yes	
HUMAN MACHINE INTERFACE									
FY2007(1-2)			AFMC/ASC	C/FFP W/OPT	MULTIPLE	Apr-07	Aug-07		
FY2008			AFMC/ASC	OPT/FFP	UNKNOWN	Mar-08	Jul-08	Yes	
FY2009			AFMC/ASC	OPT/FFP	UNKNOWN	Mar-09	Jul-09	Yes	
JOINT HELMET MOUNTED CUEING SYSTEM									
FY2008			AFMC/ESC	C/FFP	UNKNOWN	Mar-08	Jun-08	Yes	
TAC AIRBORNE CNTRL SYSTEM									
TAC AIRBORNE CNTRL SYSTEM									

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TACTICAL C-E EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009			AFMC/ASC	C/FFP	UNKNOWN	Jul-09	Dec-09	Yes	

Remarks:

(1) Quantity and unit cost vary because of different types/configurations being procured.
(2) Multiple contract methods include MIPR, C/FFP w/opt, and DO/FFP awarded by both AFMC/ESC and AFMC/ASC. Multiple contractors include those awarded by Naval Surface Warfare Center, Crane Division, Crane, IN, and to L-3 Communications Systems West, Salt Lake City, UT. Award and delivery dates reflect dates of first award and delivery.
(3) Satcom hubs and spokes ordered through two contract vehicles: L3 Narda (Navy SPAWAR contract, awarded in FY04; last orders placed in Dec 05; MIPR); and Global Satcom, Gaithersburg, MD, OPT/FFP contract, PCO: AFMC/ESC; contract base year FY05 with ordering window through FY08 for a maximum number of spoke terminals.
(4) Multiple contractors via NETCENTS.
(5) Base contract was awarded Jul 04 with 4 option years to multiple contractors (Dell Marketing LP, General Dynamics Decision Systems, Northrop Grumman Information Technology-Defense Mission Systems, Northrop Grumman Systems Corp-Denro Systems and Redcom Laboratories Inc).
(6) Base contract awarded Dec 04 with 4 option years to multiple contractors (Dell Marketing LP, General Dynamics Decision Systems, Northrop Grumman Information Technology-Defense Mission Systems, Northrop Grumman Systems Corp-Denro Systems and Redcom Laboratories Inc).
(7) Basic contract awarded Dec 2006 with three one-year options.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: COMBAT SURVIVOR EVADER LOCATOR		
		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY		8,731	2,698	2,089	2,860	2,900	1,785	1,765
COST (in Thousands)		$71,126	$26,938	$26,878	$36,146	$37,563	$28,849	$29,422

Description:

FY2007 funding total includes $44.010M in GWOT supplemental.

The Combat Survivor Evader Locator (CSEL) joint program, led by the Air Force, replaces antiquated PRC-90 and PRC-112 survival radios with a new survival radio system utilizing Global Positioning System (GPS), Ultra High Frequency (UHF) satellite communications and the Integrated Broadcast Service to quickly locate, authenticate and communicate with isolated personnel. The Air Force is the lead service and Air Combat Command is the lead command. The CSEL System will be used by all the services and, potentially, non-DoD government agencies. Multi-service Operational Test & Evaluation was completed in November 2003 and Air Force Operational Test & Evaluation certified the Block 1 system operationally suitable and effective. Ultimately the Air Force, Army, and Navy will procure approximately 44,000 CSEL radios, of which over 26,500 are for the Air Force. CSEL procurement eliminates the reliance of aircrews, recovery forces, and isolated personnel on Vietnam-era survival radio technology and improves survivability of these forces during combat missions.

1. The CSEL system is comprised of three components: (1) a User segment consisting of a new multifunction, software reprogrammable handheld radio that incorporates military GPS accuracy and security features, (2) a Satellite Communications segment incorporating four UHF Base Stations co-located with military communications sites to support secure two-way over-the-horizon data messaging, (3) a Ground segment featuring a stand-alone rescue center workstation and application software to enable two-way communication to/from isolated personnel and routing of messages.

2. CSEL ancillary equipment includes, but is not limited to, varying quantities of Radio Set Adapters (RSA), mission planning software, batteries, battery chargers, charger adapters, training aids, radio spare kits, CSEL Planning Computer (CPC), RSA spare kits and a Portable CSAR Interrogator Unit (PCIU) which enables Terminal Area Communications between CSEL and rescue forces.

FY09 funding procures CSEL radios, ancillary equipment, production engineering and associated support equipment as well as direct mission support.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
COMBAT SURVIVOR EVADER LOCATOR

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
CSEL SYSTEM					8,731		{$71,126}	2,698		{$26,938}	2,089		{$26,878}
1. CSEL RADIO (1-2)	A				8,731		$53,259	2,698		$16,997	2,089		$18,100
2. ANCILLIARY EQUIP (2-3)							$13,041			$3,970			$4,408
PORTABLE CSAR INTERROGATOR UNIT (4)										$1,480			
PRODUCTION ENGINEERING (2)							$988			$1,017			$1,047
DIRECT MISSION SUPPORT (5)							$3,838			$3,474			$3,323
TOTALS:							$71,126			$26,938			$26,878

Remarks:
Total Cost information is in thousands of dollars.

(1) Unit costs per FY are contingent upon the total radio quantity purchased by all three services.
(2) FY07 funding includes $44.01M GWOT Supplement for "CSEL RADIO", "Ancilliary Equip", and "Production Engineering"
(3) Ancillary Equipment includes, but is not limited to, varying quantities of Radio Set Adapters (RSA), mission planning software, batteries, battery chargers, charger adapters, training aids, radio spare kits and RSA spare kits. Costs per fiscal year are contingent upon total quantity purchased.
(4) Portable CSAR Interrogator Unit (PCIU) enables Terminal Area Communications between CSEL and rescue forces. Unit costs are contingent upon the total PCIUs purchased by all three services.
(5) Includes Secret Internet Protocol Router Network, Electronic Proving Ground, Joint Interoperability Test Command, Joint Personnel Recovery Agency, UHF Base Station support and other government & contractor travel/support.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
COMBAT SURVIVOR EVADER LOCATOR

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
CSEL RADIO(1)									
FY2007	8,731		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Jul-07	Jun-08		
FY2008	2,698		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Apr-08	Jul-09	Yes	
FY2009	2,089		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Nov-08	Jan-10	Yes	

Remarks:

Unit costs per fiscal year are contingent upon the total radio quantity purchased by all three services. The quantities in this document only reflect the Air Force's quantities.

(1) Boeing/Anaheim contract number is FA 8807-05-C-0004, Mar 05.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** RADIO EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$14,095	$12,152	$13,463	$15,762	$16,009	$16,321	$16,644

Description:

FY2007 funding total includes $5.4M in GWOT supplemental.

The Radio Equipment High Frequency Global Communications System (HFGCS) is a cost-effective, networked solution providing interoperable voice and data communications for strategic and tactical forces. HFGCS provides near-global, beyond line-of-sight command and control (C2) communications to aircrews, ground troops, naval operations and control stations. The Air Force (AF) is the executive agent for HFGCS per Joint Chiefs of Staff (JCS) direction.

This Radio Equipment program procures and integrates high frequency (HF) radio equipment for the AF at strategically located ground stations around the world. There are currently 13 ground stations to support the mission, and additional stations are planned to insure HF radio coverage in other areas of interest to the United States. This Command and Control/National Security System (C2/NSS) is the Department of Defense's (DOD's) only high-power HF C2 network. HFGCS serves as the primary C2 resource for Air Mobility Command (AMC) cargo and tanker aircraft. The HFGCS program supports Mystic Star (Presidential communications), the United States Air Force's Global HF System, Defense Communications System (DCS) HF Entry, US Navy High Command (HICOM) Network and other US government high-power HF missions. The HFGCS supports war plans and the daily operational requirements of the following organizations: White House Communications Agency (WHCA); JCS; US Strategic Command (USSTRATCOM); the National Military Command Center with Emergency Action Message distribution; AMC Special Air Mission (SAM) fleet communications; Air Combat Command (ACC); Air Intelligence Agency (AIA); Air Force Space Command (AFSPC); United States Air Forces in Europe (USAFE) and Pacific Air Forces (PACAF). This program also provides radio support to other governmental organizations such as Civil Air Patrol, Federal Emergency Management Agency, Transportation Security Administration and the State Department.

1. SCOPE COMMAND HF RADIO STATION REPLACEMENT: The SCOPE Command program, the acquisition program supporting HFGCS, modernizes selected high-power HFGCS ground radio equipment. SCOPE Command also upgrades the 13 Air Force HF global stations in accordance with the DoD's rightsizing direction with state-of-the-art, commercial-off-the-shelf (COTS) HF radio equipment.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: RADIO EQUIPMENT

Description (continued):

a. NETWORK MODERNIZATION IMPROVEMENTS: The HFGCS network is currently monitored and controlled from one network control station (NCS) located at Andrews AFB, Washington, DC. The DoD's post 9/11 review identified this reliance on one NCS as a 'single point of failure' within the HFGCS network. This review determined that an alternate NCS was needed to meet system survivability requirements ensuring uninterrupted network operations. FY09 funds continue the standup of an alternate NCS at a site soon to be determined. The alternate NCS will be designated as NCS-West (NCS-W). FY09 funds build on the completion of NCS-W with modernization of HFGCS by procuring digital HF upgrade and teleport, Internet Protocol version 6 (IPv6) and Global Information Grid (GIG) integration. FY09 funds also acquire the hardware and software infrastructure for the HFGCS transformation.

The HFGCS network supports the Global War on Terrorism by providing secure, robust, physically diverse terrestrial, airborne and space-based transmission paths and information services between fixed and deployed operating locations. FY09 funding will continue the CENTCOM station and continues the acquisition, testing and installation of a station in the Southwest Pacific for improved HF communications.

b. ANTENNAS: Antenna survey assessments at all 13 HFGCS stations identified numerous obsolete, degraded and unsupportable antennas due to aging (many in operation 25-40 years) and environmental conditions (only Offutt AFB, NE is not affected environmentally by salt water and hurricane or tsunami conditions). FY09 funds the first full year of the HFGCS Antenna Support Program with the acquisition of antennas and antenna sub-systems to include coax cables, connectors, dehydrators, grounding, bonding, shielding and lightning protection.

c. ENGINEERING/INTEGRATION/TRAINING: FY09 funding supports the acquisition, installation and checkout of the CENTCOM and Southwest Pacific stations, and the modernization of HFGCS digital HF , IPv6 and GIG integration. FY09 funds support the engineering efforts for the hardware and software infrastructure for HFGCS transformation. FY09 funding continues Information Assurance (IA) activities and mandated DoD security upgrades as part of the radio and information technology system upgrades. IA remediation actions must be continuously and consistently applied to the HFGCS systems to mitigate system security risks and vulnerabilities. This funding supports IA activities including risk assessment, problem definition, engineering, technical analysis, integration and operational testing of implemented upgrades. DoD interface criteria mandate these upgrades to ensure the system complies with Defense Information System Agency's GIG requirements.

d. DIGITAL HF: FY09 funding procures items needed to implement digital HF. Digital HF satisfies the operational need for clear end-to-end secure voice and Internet Protocol data and voice capability on all AMC aircraft over the HF radio spectrum using the HFGCS system. Funds support the integration

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** RADIO EQUIPMENT

Description (continued):

of digital capability into existing radios, and then integrating this equipment into the HFGCS system to provide digital HF communications. Procurements include servers, routers, encryption and security devices, and other associated telecommunications equipment and integration to support the effort.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
RADIO EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
SCOPE COMMAND HF RADIO STATION REPLACEMENT							{$14,095}			{$12,152}			{$13,463}
NETWORK MODERNIZATION/ IMPROVEMENTS	A						$4,400			$3,142			$2,799
ANTENNAS (1)	A						$8,675			$3,214			$3,138
ENGR/INTEGRATION/TNG							$1,020			$1,613			$2,114
DIGITAL HF	A									$4,183			$5,412
TOTALS:							$14,095			$12,152			$13,463

Remarks:
Total Cost information is in thousands of dollars.

(1) FY07 funding includes $5.4M GWOT Supplement for "MAF-HFGCS Antennas"

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** RADIO EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
SCOPE COMMAND HF RADIO STATION REPLACEMENT									
NETWORK MODERNIZATION/ IMPROVEMENTS									
FY2007(1-2)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Apr-07	Jun-07		
FY2008(1-2)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-08	Jul-08		
FY2009(1-2)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-09	Jul-09	Yes	
ANTENNAS									
FY2007(1,3)			AFMC/OC-ALC	SS/IDIQ	LONG WAVE COMMUNICATIONS/ OKLAHOMA CITY, OK	Dec-07	Feb-08		
FY2008(1,3)			AFMC/OC-ALC	SS/IDIQ	LONG WAVE COMMUNICATIONS/ OKLAHOMA CITY, OK	Dec-07	Feb-08		
FY2009(1,4)			AFMC/OC-ALC	C/IDIQ	UNKNOWN	Nov-08	Apr-09	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
RADIO EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
DIGITAL HF									
FY2008(1-2)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	May-08	Jul-08	Yes	
FY2009(1-2)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-09	Jun-09	Yes	

Remarks:

(1) Quantities and unit costs vary due to site-specific requirements.
(2) Apr 01 basic contract F34601-01-D-0276 awarded to Rockwell/Collins with 10 option years.
(3) 8(a) contract with IDIQ option awarded in FY08 to Long Wave Communications for Antenna Sustainment Program to support the Guam, Ascension, and Puerto Rico stations in HFGCS Station antenna replacement program.
(4) Competitive contract with IDIQ options to be awarded in FY09 for Antenna Sustainment Program. Contract will have 4 one-year options.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TV EQUIPMENT (AFRTV)

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$2,732	$3,089	$0	$333	$338	$344	$351

Description:

This continuing program procures broadcasting equipment needed by Air Force TV - Pentagon Station, which provides video production, location video recording, video editing, media training support, multimedia duplication, off-air recording, and multimedia consultation. It supports professional briefing support (presentations) for SECAF, CSAF, and Air Staff Senior Leaders; video and multimedia programs for Congress; and media training with Public Affairs for both Congressional and Pentagon Senior Leaders. Recent video productions include the AF "How We Fight" video, video "messages" from SECAF/CSAF, and video packages for Corona's.

1. ARMED FORCES RADIO AND TELEVISION SERVICE (AFRTS) EQUIPMENT PROCUREMENT: Funding moved to Defense Media Activity for FY09 and future years. No FY09 funding requested.

2. AIR FORCE NEWS (AFNEWS) PRODUCTION CENTER: No FY09 funding requested.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** TV EQUIPMENT (AFRTV)

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TV EQUIPMENT (AFRTV)					{$2,732}		{$3,089}		
AFRTS EQ PROCUREMENT (DIRECT TO HOME)	A				$2,422		$3,089		
AFNEWS PRODUCTION CENTER	A				$310				
TOTALS:					$2,732		$3,089		

Remarks:

Cost information is in thousands of dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CCTV/AUDIOVISUAL EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$8,382	$9,772	$7,423	$10,170	$8,869	$9,044	$9,222

Description:

Closed Circuit Television (CCTV) and Audiovisual (AV) systems and their products are used throughout the Air Force to inform and train warfighters, and to document combat operations and other events of historical significance. Combat video documentation is used for operational reporting and analysis, situational awareness, battle damage assessment, intelligence and operational analysis, casualty identification, and the historical record. In addition, video and multimedia-based products are developed for warfighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. Commanders recognize that imagery quickly conveys very accurate and unbiased information, and are requiring greater amounts of video imagery to help meet the challenges of a very active warfighting force. The Air Force is meeting this challenge in FY09 by dedicating funding to procure and sustain this important capability by replacing older video studio systems with newer and more capable equipment and systems for both Air Force video production and combat/contingency documentation teams. CCTV systems are centrally managed to establish and maintain standardization of systems, as well as to ensure full interoperability with all other electronic image acquisition, transmission system formats, and presentation systems used in the Air Force.

1. IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT: FY09 procures replacement equipment and upgrades for studio-based closed circuit video equipment. Increased implementation of digitally based video systems for image signal capture, processing, editing, and transmission enables Air Force TV centers to offer greater capability in image articulation and customer understanding. FY09 funding will also continue evolution into High Definition (HD) video production. This equipment includes cameras, editing and duplication systems and all accessories necessary for image capture, processing and distribution. This program funds 19 production centers and provides products for combat operations, education and training and corporate communications.

2. COMBAT CAMERA SYSTEMS: FY09 continues sustainment of heavily used and worn mobile combat documentation video cameras and night vision lenses, portable video recorders and portable nonlinear digital video editors in support of worldwide Combat Camera and Multimedia forces. This program provides for technology upgrades to portable video systems and includes lightweight digital video cameras and camcorders providing higher video quality to the warfighter. These newer systems reduce the transportation footprint, reduce work load and enable combat camera personnel to transmit motion and still

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CCTV/AUDIOVISUAL EQUIPMENT

Description (continued):

imagery across satellite as well as terrestrial systems. This critical capability provides warfighters with greater flexibility in decision-making with real-time operational and combat imagery.

3. WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS: Previously identified as "WESTERN TEST RANGE VIDEO SYSTEMS." FY09 funding continues replacement of 35 year-old high-speed engineering film cameras with high-speed digital imaging systems. These cameras are mounted on mobile optical tracking systems and on camera towers next to the launch pad to provide detailed slow motion photography of the launch events. The cameras support satellite, ballistic, missile defense, and aeronautical missions on the Western Test Range and at Kodiak Island, Alaska. The optical data acquired by these engineering camera systems are a vital part of post flight performance analysis of all space and ballistic launch operations but are most critical for Test and Evaluation programs now being conducted by the Missile Defense Agency (MDA) at Vandenberg AFB, CA. Optical tracking provides detailed engineering sequential photography for anomaly resolution and accident reconstruction at distances up to 60 kilometers, and is required for all current and future MDA tests and Delta IV, Atlas IV, Delta II, Peacekeeper, Minuteman, Airborne Laser, Kinetic Kill Vehicle, and commercial space launches. These digital systems replace film camera systems that use up to 800,000 feet of film at $17,000 per launch versus $150 to $200 in digital linear tape. This new capability offers immediate access to the image data, no chemical processing is required, data can be enhanced and analyzed on user workstations, cameras can be placed in hazardous areas and controlled over Ethernet and linear and angular measurements can be made directly from the data.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** CCTV/AUDIOVISUAL EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT	A				$1,649		$1,808		$1,505
COMBAT CAMERA SYSTEMS	A				$1,647		$1,613		$1,348
WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS	A				$5,086		$6,351		$4,570
TOTALS:					$8,382		$9,772		$7,423

Remarks:

Cost information is in thousands of dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE COMMUNICATIONS INFRASTRUCTURE

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$164,860	$135,651	$135,808	$143,693	$146,392	$141,776	$145,625

Description:

FY2007 funding total includes $19.02M in GWOT supplemental.
FY2008 funding total includes $20.968M in Congressional adds.

The Base Communications Infrastructure (BCI) program enables timely and assured delivery of data and voice communications supporting a wide range of Air Force organizations and decision makers. This program provides Air Force (AF) Major Commands (MAJCOMs), the Air National Guard (ANG) and the Air Force Reserve (AFR) with effective command and control (C2) by operating information systems, providing information protection, and sharing data and information with all appropriate people and machines at any place and time. BCI supports upward-generated communications requirements from the MAJCOMs, ANG and AFR and respective bases. MAJCOMs, ANG, AFR and bases require their own communications improvement funds to tailor the base communications environment to the specific operational missions supported by the base. Funds are also needed at MAJCOM and base level to react quickly to mission changes, support new Military Construction projects and handle the multitude of smaller, individual communications, computer, air traffic control and weather instrumentation connectivity needs. The BCI program is also used by the ANG to fund their entire communications infrastructure requirement. AF-wide downward-directed efforts to provide base-wide fiber optic networks, modernize base control centers and replace main base telephone switches are funded under P-1 Line 41, Base Information Infrastructure.

1. HEADQUARTERS AIR FORCE COMMUNICATIONS AGENCY (HQ AFCA): No FY09 funding requested.

2. AIR NATIONAL GUARD (ANG): Base Communications Infrastructure (BCI) is the single funding source for ANG base communications procurement requirements. FY09 funds provide for expansion, modernization and sustainment of base communications infrastructure at 88 ANG flying wings and more than 200 Geographically Separated Units (GSU), including the ANG Network Operations and Security Center (NOSC) and six Regional Operations Support Centers (ROSCs). Funds support "top-down" ANG-wide programs promoting base communications infrastructure consistency across the ANG to bring the ANG infrastructure up to active AF standards to meet the CSAF's “One Air Force, One Network” direction.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE COMMUNICATIONS INFRASTRUCTURE

Description (continued):

FY09 funding provides Engineering and Installation (E&I) support and command-wide purchases of hardware and software, maintaining consistent, compatible, and interoperable technology and architecture. This across-the-board functionality guarantees interoperability between ANG networks, active duty AF networks and other Services' networks. Funds support voice, video, sensor, imagery and data convergence projects to promote compatibility with evolving active duty AF architectures. Funding provides for upgrades, technological advances and sustained maintenance of developed systems. In addition to ANG-wide programs, funds also provide for analysis, engineering, materials, installation and certification of solutions designed to meet critical base-level communications infrastructure requirements.

Specific projects at each ANG base are tailored to particular requirements in compliance with AF-approved architectures, regulations, network designs and equipment specifications, maintaining compatibility between the ANG and AF organizations. Equipment will be procured relative to satisfying a wide range of base-level FY09 requirements (i.e. telephone switch upgrades to voice-over-IP, network consolidation, software upgrades, cable plant, wireless LAN and other infrastructure associated with critical communications requirements). Office appliances include end user and deployable computer systems, video systems, media and projection systems and the wiring and cabling supporting such devices. ANG communications infrastructure must be maintained and/or upgraded to match Air Force data management requirements, including tiered storage, backup, online and offline recovery services, firewalls, secure enclaves and encryption devices. Funds also support base-level requirements including, but not limited to, communications infrastructure supporting air traffic control, radar and Tactical Digital Information Links (TADIL), surveillance and intrusion detection systems, Radio Frequency Identification (RFID) tagging, infrared, remote controlled vehicles, technological upgrades and sustained maintenance of the developed systems located at most or all flying units. FY09 funds will also procure communications infrastructure upgrades supporting emerging missions as Distributed Common Ground System (DCGS) and Predator operations are introduced to ANG bases.

3. HEADQUARTERS AIR FORCE SPACE COMMAND (HQ AFSPC): Funds support Air Force Space Command base communications, command-wide modernization, and life cycle replacement of base information transmission systems. Procurements include transport infrastructure upgrades, distribution system upgrades, voice telephone switch modernizations, data network equipment modernization, outside plant cable upgrade, installation warning systems installation, secure voice systems modernization, and implementation of voice convergence on several bases.

FY09 funds support the continuation of many multi-year projects. The command Installation Warning System program began in FY08 and continues through FY13. The Front Range voice operator consolidation and battery replacement project will begin in FY09 and be completed in FY11. The voice convergence

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Description (continued):

projects at Patrick AFB, FL and Malmstrom AFB, MT will commence in FY09 and be completed in FY10. There are two single year voice switch upgrades in FY09, one at Cape Canaveral AFS, FL and one at Vandenberg AFB, CA.

The Space Defense Interface Network (SDIN), Steel Pipe and Base Synchronous Optical Network (SONET) project provides engineering, management and technical support including engineering, integration, implementation, installation, documentation, surveys, and sustainment, including Level 2 maintenance, for the AFSPC mission transport network. This will enable the employment of Dense Wave Division Multiplexing (DWDM), greatly improving the efficiency of the network.

FY09 funding continues to support an enterprise initiative to consolidate AFSPC -wide network by increasing use of web servers, e-staffing, security boundary controllers (firewalls), data storage systems, and file print services. Projects include E-mail Services Archiving, Red Network Consolidation, Application Server Consolidation and Black Web Consolidation at AFSPC locations including F.E. Warren AFB, WY; Los Angeles AFB, CA; Patrick AFB, FL; Malmstrom AFB, MT and Vandenberg AFB, CA.

The Infrastructure Cable Plant Upgrade at Fort MacArthur, CA provides for improved infrastructure and bandwidth for the new Alternate Command Post. The second phase of the project, scheduled for FY09 will remove the cables containing lead. Another project that replaces old lead-containing cable is on-going at Cape Cod AFS, MA and will continue through FY10. These projects are intended to prevent the ground water from being contaminated with lead.

4. HQ US AIR FORCES IN EUROPE (USAFE): Expands and modernizes base communications infrastructure-especially secure Command and Control communications-at bases, geographically separated units and USAFE headquarters. FY09 funds the establishment of an Area Processing Center (APC), a regional computer and data center providing enterprise services. Procures servers, storage area networks and network management equipment necessary for the APC to provide command users email, web services and data storage. FY09 funding also continues the Technical Control Facility Modernization Program into Turkey, replacing outdated data transfer/distribution systems between intra-base communication networks/nodes and eliminating bottlenecks in base data distribution systems. Additionally, funding migrates the lan mobile radio network at Lajes AB, Azores, to a trunked infrastructure.

5. HEADQUARTERS AIR EDUCATION AND TRAINING COMMAND (HQ AETC): FY09 funds base-approved and MAJCOM-validated communications requirements and the communications Engineering & Installation (E&I) program as identified in base communications blueprints. This provides communications and information infrastructure to support the flying and technical training, recruiting and accession mission at all 13 AETC bases.

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Description (continued):

FY09 funds fiber optic connectivity to core facilities and covers base backbone shortfalls not otherwise addressed. FY09 funds provide replacement of copper cables and associated manhole/duct systems for cable projects in excess of $750K. Communications cables at many AETC bases are old and/or buried underground without protective shielding. Cable failures are increasingly expensive to repair and adversely impact mission critical data transmission reliability. Funds for existing network infrastructure. Provides upgrades to existing voice switches, fiber optic cable and associated allied support needed to increase the bandwidth.

FY09 funds procure the Giant Voice component of Installation Warning Systems for AETC bases. Giant Voice gives commanders the ability to quickly and accurately notify base personnel of emergency situations. Announcements include notifications of potential or actual emergencies or threats such as impending natural disaster (such as a tornado) or terrorist attack. Several warning systems within the command are failing or nonexistent.

FY09 funds procures equipment and direct support necessary to stand up AETC's Area Processing Center (APC). The first stage of this effort is to consolidate, centralize, and reduce AETC's Network Control Center (NCCs) requirements by transferring responsibility of tasks and management of systems {firewalls, Storage Area Network core services (file, web, print, and email), and Helpdesk}, from base-level NCCs to the AETC Network Operations and Security Center (NOSC). FY09 funding continues disk-to-disk backup solution to replace the current tape solution at the remaining bases as the primary means for data backup, which provides a faster, more efficient means to recover data due to customer loss or disaster. FY09 funds also procure equipment to support the expansion of the AETC Centralized Collaboration Environment. This environment will allow AETC to provide continued mission support across the command by enabling bases to avoid supporting duplicate, isolated systems.

FY09 funds also procure three Trunking Land Mobile Radio systems at Luke AFB, AZ; Sheppard AFB, TX; and Laughlin AFB, TX to extend the systems life cycle beyond 2009.

6. HQ AIR FORCE MATERIEL COMMAND (HQ AFMC): FY09 funding supports the engineering, acquisition and installation of network infrastructure replacements, upgrades and sustainment of AFMC's classified and unclassified networks. Emergency notification and reporting capabilities, critical to prevention of loss of human life, are on the forefront of AFMC's investment portfolio and considered a fundamental component of the Communications Infrastructure.

In the unclassified network, AFMC's primary focus supports systems and capabilities hosted in centralized data centers. The centralized data centers host the

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Description (continued):

AFMC Email and Enterprise Information Management (EIM), as well as other AFMC specific functional data systems. The Email system is an enterprise solution across all data centers, while the EIM system is centrally hosted in our Wright-Patterson AFB, OH (WPAFB) data center. The AFMC Email system will migrate to an AF-hosted solution in 2010.

In the classified network, AFMC's primary focus supports the engineering, acquisition and installation of network infrastructure replacements, upgrades and sustainment of AFMC's two centralized classified sites. The effort adds network protection and management tools. The end state of the centralization is to consolidate core services (Email, web, file and print servers), provide Information Technology Contingency Plan (data replication and failover) and timely disaster recovery via the centralized classified enterprise architecture. AFMC's classified network centralization encompasses both the Secret Internet Protocol Router (SIPRNet) and the Sensitive Compartmented Information Network (SCINet). AFMC is focused on providing Email, web, file and print services. In addition, collaboration via software solutions and Standard Desktop Configuration (SDC) will be provided for all AFMC organizations and tenant users at each AFMC center. The SIPRNet architecture is composed of two centralized sites located at Kirtland AFB, NM (KAFB) and WPAFB, while the SCINet is comprised of a single centralized site at WPAFB. This effort will eliminate “stovepipe” organizational and center systems by migrating all core services to the two centralized classified sites. This program follows the “One Air Force, One Network” and SDC efforts.

In conjunction with supporting the classified network, FY09 funding procures SIPRNet terminals and TACLANE encryption devices, bringing AFMC into compliance DoD and Federal regulations, including the Office of Management and Budget directive mandating the use of Internet Protocol Version 6 (IPv6).

7. HQ PACIFIC AIR FORCES (HQ PACAF): The large geographic separation throughout the command significantly raises the importance of a robust communications infrastructure. This activity expands and modernizes network equipment, servers, cable plant and voice switching equipment critical to supporting the command's responsibilities throughout the Pacific. FY09 funds the establishment of an Area Processing Center (APC), a regional computer and data center providing enterprise services. Procures servers, storage area networks and network management equipment necessary for the APC to provide command users email, web services and data storage. It continues to support the Air Force's share of joint land mobile radio operations and multi-function telephone switch upgrades throughout the theater. Funding also addresses network deficiencies that impact combined operations, through North American Aerospace Defense (NORAD), in support of the Homeland Defense mission.

8. HQ AIR COMBAT COMMAND (HQ ACC): Finances infrastructure investment to effectively manage and improve the reliability, security, and efficiency of the entire ACC network enterprise. FY09 funding supports Mission Critical Network Reliability (MCNR). MCNR is a concerted effort to

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Description (continued):

eliminate single points of failure by procuring the required hardware and secondary fiber optic connections from mission-critical C2 facilities-furthering the ACC Commander's vision of 99.999% net availability. FY09 funding also supports the command infrastructure upgrades such as the transition to high-speed/high data rate connectivity and the establishment of digital switching capabilities. Additionally, FY09 procures equipment supporting communications for new military construction projects and larger infrastructure requirements that provide C2 connectivity (network and telephone services) to all base facilities, organizations and key war-fighting forces.

9. HQ AIR MOBILITY COMMAND (AMC): Replaces outdated and maintenance-intensive equipment and infrastructure, fiber and copper cable installations, telephone switch and voice systems and modernizes navigational equipment infrastructure and computer networks throughout AMC. FY09 funds a copper cable plant and duct system at Charleston AFB, SC, increasing service life of the current, direct buried cable plant. At Fairchild AFB, WA, FY09 funds upgrade the base telephone switch's hardware and software. Additionally, FY09 funds procure a 900-telephone line expansion for new telephone systems, fax machines, fire alarms, intrusion detection and emergency management systems supporting the new C-17 bed down area, Contingency Response Wing buildings, Base Civil Engineer facilities and a south gate complex at Travis AFB, CA.

10. HQ AIR FORCE SPECIAL OPERATIONS COMMAND (HQ AFSOC): FY09 funds will support base communications command-wide modernization and life cycle replacement of information transmission systems and base communications infrastructure. Procurements include wide and local area network hardware (servers, routers, hubs and network management systems) and voice switch system upgrades at Hurlburt Field, FL and Cannon AFB, NM. FY09 funding will replace of the land mobile radio (LMR) system at Cannon AFB, NM. The LMR network is configured to operate on frequencies that were once assigned exclusively to the DOD. The frequencies were sold to the commercial sector in the 2006 spectrum auction, and new equipment is needed to reprogram the network for a new frequency band.

FY09 funds will also be used to support various Command initiatives such as SIPRNet expansion as well as federally-mandated IPv6 migration.

11. AIR FORCE DISTRICT OF WASHINGTON (AFDW): Expands and modernizes base communications infrastructure supporting the Air Force component to the Joint Task Force-National Capital Region (NCR). FY09 funds expanded land mobile radio capability within the NCR, purchasing radio towers, servers, uninterruptible power supplies and radios. FY09 funds also invests in office automation systems and computer networks at Bolling AFB, MD; Andrews AFB, MD and Headquarters Air Force, procuring high-quality, high-speed connections to both public and classified networks and equipment required to react to emerging and emergency mission requirements in the NCR.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE COMMUNICATIONS INFRASTRUCTURE

Description (continued):

12. AIR FORCE RESERVE COMMAND (AFRC): FY09 funds provide for expansion, recapitalization, and sustainment of base communications infrastructure at HQ AFRC, the MAJCOM Network Operations and Security Center (NOSC), HQ Air Reserve Personnel Center (ARPC), 43 AFRC flying wings/groups and more than 40 Geographically Separated Units (GSU). Funding supports MAJCOM centrally-funded AFRC-wide programs providing base communications infrastructure consistency across the command. Funding provides Engineering and Installation (E&I) support and command-wide hardware and software purchases, thus ensuring the employment of consistent, compatible and interoperable technology and architecture. This across-the-board functionality ensures interoperability between AFRC networks, active-duty AF networks and networks of other Services. Funds support data, voice and video projects to promote compatibility with evolving active duty AF architectures. Funding provides for upgrades, technological advances and sustained maintenance of the developed networks. In addition to funding AFRC-wide programs, funds also provide solutions for critical base-level communication infrastructure requirements. Specific requirements include AFRC's command and control (C2) facilities that require communications upgrades to ensure network connectivity with integrated Homeland Defense C2 networks. Resulting information infrastructure allows AFRC to respond to increased workload and provide coordinated response to specific force protection levels. Procured equipment satisfies a wide range of base-level requirements including virtual private networks, wireless local area networks, personal wireless and wired communications systems and various Land Mobile Radio (LMR) infrastructure to include base stations, repeaters, mobile equipment and handheld radios. Funding will also provide improved base communications infrastructure to provide data management, including Storage Area Network (SAN) and Network Attached Storage (NAS), backup, online and offline recovery services, Continuity of Operations (COOP) equipment, firewalls, secure enclaves and encryption devices.

13. SERVICE ACQUISITION EXECUTIVE: No FY09 funding requested.

14. AIR FORCE PENTAGON COMMUNICATIONS AGENCY (AFPCA): No FY09 funding requested.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** BASE COMMUNICATIONS INFRASTRUCTURE

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BASE COMMUNICATIONS INFRASTRUCTURE					{$164,860}		{$135,651}		{$135,808}
2. HQ AFCA (1-2)	A				$14,952		$3,179		
3. ANG (1-6,9-12)	A				$44,343		$53,461		$33,018
4. HQ AFSPC (1-4)	A				$30,522		$9,666		$13,983
5. HQ USAFE (1-4)	A				$10,230		$9,341		$19,629
6. HQ AETC (1-4)	A				$12,607		$17,717		$18,754
7. HQ AFMC (1-4)	A				$10,185		$6,938		$7,469
8. HQ PACAF (1-4,7,13-14)	A				$16,756		$9,110		$15,339
9. HQ ACC (1-4)	A				$16,270		$17,422		$15,450
10. HQ AMC (1-4)	A				$2,963		$2,185		$2,624
11. HQ AFSOC (1-4,8)	A				$896		$1,445		$4,149
12. AFDW (1-4)	A				$2,290		$1,985		$5,055
13. HQ AFRC (1-4)	A				$1,163		$477		$338
14. SERVICE ACQUISITION EXECUTIVE (1-4)	A				$1,683				
15. AF PENTAGON COMMUNICATIONS AGENCY (1,3-4)	A						$2,725		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TOTALS:					$164,860		$135,651		$135,808

Remarks:

Cost information is in thousands of dollars.

(1) Quantities and unit costs vary due to different site configurations.
(2) Land Mobile Radios (equipment, engineering, installation) are procured via the Army Base Radio Systems (BRS) Contract. Vendors include Booz Allen Hamilton, McLean, VA; Engineered Systems, Omaha, NE; M/A-Com PRS, Lynchburg, VA; Motorola, Schaumburg, IL; and E.F. Johnson, Waseca, MN.
(3) Options were used to procure multiple pieces of equipment from the GSA Schedule and AFWay. AFWay is a web-based USAF system for purchasing COTS IT via prenegotiated contracts with leading IT manufacturers and resellers.
(4) Options to various competitive, fixed/firm price contracts are available through the following vendors for execution of Base Communications Infrastructure funding: AT&T Federal Communications Systems, CDW-Government, Dell Computer Corp, GTSI, Westwood Computer Corporation, Intelligent Decision Inc, Centech, EDS, Q-System, etc.
(5) FY07 funding includes $7.760 GWOT supplemental for "ANG Incident Site Communications Capability"
(6) FY07 funding includes $3.0M GWOT supplemental for "ANG Base Level Communications"
(7) FY07 funding includes $7.96M GWOT supplemental for "Diego Garcia Diverse Communications Path".
(8) FY07 funding includes $0.300M GWOT supplemental for "16 SOW Command Post Siemens Console"
(9) FY08 funding includes $2.0M Congressional add for "Secure Wireless LAN, 183rd FW (IL ANG)"
(10) FY08 funding includes $5.8M Congressional add for "Integrated Imagery Network - Nevada National Guard"
(11) FY08 funding includes $2.0M Congressional add for "Digital Deployed Training Campus (DDTC) for ANG"
(12) FY08 funding includes $2.0M Congressional add for "Secure Wireless LAN, 183rd FW (IL ANG)"
(13) FY08 funding includes $2.0M Congressional add for "Alaska Land Mobile Radio"
(14) FY08 funding includes $7.468M Congressional add for "AK NORAD Comm Survivability and Diversity"

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$42,884	$39,193	$33,258	$41,465	$64,557	$64,235	$62,638

Description:

FY2007 funding total includes $16.0M in GWOT supplemental.
FY2008 funding includes $4.0M in Congressional adds.

1. AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS): ATCALS is a combination of United States Air Force (USAF) ground facilities and equipment, both fixed and tactical, with associated avionics, personnel, and procedures that provide air traffic control worldwide to USAF/Department of Defense flying missions. The ATCALS line includes basic air navigation equipment that provide en route and terminal navigation control and separation, approach, departure, and landing guidance. ATCALS also provides equipment required to ensure interoperability with systems operated by the North Atlantic Treaty Organization, the US National Airspace System, and the International Civil Aviation Organization. Beginning in FY08/09, a key element of the ATCALS modification effort will be the Air Force ATCALS Transformation Initiative. The ATCALS Transformation initiative combines organizational realignments, process improvements, and investment in state-of-the-art commercial off-the-shelf technology to update 20+ year old ATCALS to support the mission for the next 20 years while producing significant manpower, operations, and maintenance savings. FY09 ATCALS Transformation initiatives include item d. below. Additional ATCALS Transformation initiatives are also included in the ATCALS FY09 equipment request. Modifications include, but are not limited to:

a. AN/GPN-22 (V), RADAR SET GROUP TRANSMITTER MODIFICATION: No FY09 funding requested.

b. AN/TPN-19 RADAR SET GROUP TRANSMITTER MODIFICATION: No FY09 funding requested.

c. VOR/VORTAC/TACAN MODIFICATION: No FY09 funding requested.

d. AN/GRN-29, INSTRUMENT LANDING SYSTEM (ILS) MODIFICATION: The ILS consists of two subsystems, a “localizer” that provides

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

Description (continued):

runway alignment information and a "glide slope" to provide vertical descent angle information. ILS provides horizontal and vertical guidance to allow aircraft to make a precision approach to a runway in inclement weather. The current operational ILS systems are approaching the end of their intended life cycle, yet these systems will be required until approximately 2024. Implementing this modification will result in an upgraded system with state-of-the-art commercial off-the-shelf technology (new localizer electronics, glide slope electronics and glide slope antenna - localizer antennas have already been upgraded), manpower saving remote maintenance, flight inspection support capability, and system availability in excess of 99%. FY09 funds continue this multi-year modification effort.

e. MISCELLANEOUS LOW COST MODIFICATIONS: Low cost modifications are typically initiated to resolve minor system deficiencies identified through Product Improvement Working Group (PIWG) initiatives, policy TO 00-35D-54 Deficiency Reports, or sustaining engineering assessments. Planned low-cost modifications include a redesign of the operational jacks in the AN/TPN-19 operations shelters. The rivets in the current design have a tendency of separating from the structure resulting in an unstable footprint. The proposed modification will reinforce the jacks with more secure rivets and fasteners. This modification will utilize COTS technology and is planned to be fielded in FY08. Several modifications are anticipated for the MSN-7 to correct hatch seal, retraction, and night vision deficiencies. Implementation of these minor modifications will decrease maintenance costs and improve system operational availability. The return on investment for this low-cost modification will be realized immediately through decreased unscheduled depot and field level maintenance, enhanced performance, and operational safety. FY09 funds continue the low cost modification efforts to fixed base and deployable ATCALS equipment.

f. AN/TPN-19 FLAT PANEL DISPLAY MODIFICATION: No FY09 funding requested.

g. MPN-14K COMMUNICATIONS SWITCH: No FY09 funding requested.

2. WEATHER OBSERVATION AND FORECAST SYSTEM: This system consists of meteorological and space environmental sensing equipment providing information to support the worldwide missions of the AF, Army, Special Operations Forces (SOF), combatant commands, and other government agencies. Fixed and transportable equipment provides warfighters at in-garrison, contingency, and deployed locations with accurate, relevant, and timely terrestrial and space weather observations and forecasts. Development funding is in Program Element 0305111F, Weather Service. The following modifications support this mission.

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APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

Description (continued):

a. MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM: FY09 funding upgrades AFWA's web-based capabilities for rapid receipt, staging, and transmission of graphics and text-based weather products and data to warfighters and decision-makers. Upgrade of dissemination subsystem hardware, software, and communications infrastructure will ensure timely receipt of weather information by warfighters at worldwide fixed and deployed locations and incorporate net-centric requirements.

b. MOD# 98-003, WEATHER FORECASTING: No FY09 funds are requested.

c. MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT (AFCCC-R) UPGRADE: No FY09 funds are requested.

d. MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS): FY09 funding allows the Air Force to pay a proportional share of modification costs for this airfield sensor system as part of a tri-agency agreement between Department of Transportation, Department of Commerce, and Department of Defense. The tri-agency agreement will ensure that AF-owned ASOS units maintain baseline configuration with units in other agencies. Participation in the Pre-planned Product Improvement (P3I) program enhances long-term supportability of ASOS and directly supports safety of flight.

e. MOD# 00-001, NEXRAD UPGRADES: FY09 funding upgrades Radio Frequency Generators, adds a second signal for dual polarizations, and refreshes the central processing unit of the Radar Product Generator and radars. Funding supports the tri-agency cost sharing agreement between the Department of Defense, the Department of Commerce, and the Department of Transportation.

f. MOD# 06-001, AIR FORCE COMBAT CLIMATOLOGY CENTER UPGRADE: FY09 funding upgrades hardware, software, and communications infrastructure within the AF Combat Climatology Center to support ingest, archiving, and retrieval of observational weather data and target-scale cloud model analysis and forecast data. The upgrade includes network attached storage devices, disk drives, and servers for additional data ingest, storage, and retrieval capabilities.

g. MOD# 06-002, OBSERVATION SYSTEM 21ST CENTURY: FY09 funding upgrades ceilometers and other components of automated fixed and deployable weather observing systems providing safety of flight and resource protection information at more than a hundred AF and Army airfields and operating locations worldwide.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

Description (continued):

h. MOD# 06-003, WEATHER DATA ANALYSIS: FY09 funding upgrades Unclassified and Collateral Secret production systems. Modernizes information technology infrastructure that produces decision-quality environmental information for warfighters through the assimilation of worldwide sources of space and terrestrial weather data.

i MOD# 07-001, WEATHER FORECASTING MODERNIZATION: FY09 funding will provide technology refresh for computer processor, memory, and storage devices supporting numerical weather prediction within the AF Weather Strategic Center. Refresh required to meet increasing processing demands of numerical mesoscale weather models and to reduce sustainment costs associated with legacy equipment. Additionally, upgrades needed to support ensemble forecasting processes and Operational Risk Management techniques that will yield improved weather and cloud forecasts for AF and Army operations worldwide.

j. MOD# 08-001, OPTICAL SOLAR PATROL NETWORK (OSPAN): FY09 funding will upgrade components of the Solar Observing Optical Network (SOON) providing solar flare analysis and reporting. Upgrades needed to replace 1960s technology that is nearing the end of life cycle supportability.

k. MISCELLANEOUS LOW COST MODIFICATIONS: FY09 funds will enable low cost modification efforts to fixed and deployable configurations of the Air Force Weather Weapon System's terrestrial and space environmental collection, analysis, forecasting, and dissemination platforms.

3. SHARED EARLY WARNING SYSTEM (SEWS): FY09 funds procure equipment upgrades for the SEW-specific equipment at Theater Combatant Commander locations, partner nations, and the Centralized Distribution Facility at Peterson AFB, CO, where data is initially received and filtered, and at the inject points where data is transmitted to SEWS customers and other foreign partner nations. Upgrades are prioritized based on an adjudicated OSD/Joint Staff-coordinated Integrated Priority List (IPL) for SEWS. Development funding is in Program Element 0308699F, Shared Early Warning System.

4. MOBILE CONSOLIDATED COMMAND CENTER (MCCC): No FY09 funding requested.

5. NORTH WARNING SYSTEM (NWS): No FY09 funding requested.

a. FPS-124 RADAR FREQUENCY SYNTHESIZER: No FY09 funding requested.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

Description (continued):

b. END-TO-END TESTER (E2E): No FY09 funding requested.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
COMM ELECT MODS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AIR TRAFFIC CONTROL LANDING SYSTEM (ATCALS) (3)							{$18,855}			{$9,988}			{$3,939}
AN/GPN-22(V) RADAR SET GROUP TRANSMITTER	A						$7,475			$3,000			
AN/TPN-19 RADAR SET GROUP TRANSMITTER MOD	A						$1,800			$1,725			
VOR/VORTAC/TACAN MODIFICATIONS	A						$1,016						
AN/GRN-29 INSTRUMENT LANDING SYSTEM MODIFICATIONS	A									$3,296			$2,656
MISCELLANEOUS LOW COST MODS	A						$703			$1,967			$1,283
AN/TPN-19 FLAT PANEL DISPLAY MOD (1)	A						$6,200						
MPN-14K COMM SWITCH (3)	A						$1,661						
WEATHER OBSERVATION & FORECAST SYSTEM							{$14,988}			{$28,905}			{$29,065}
MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM	A						$4,539			$4,222			$2,707
MOD# 98-003, WEATHER FORECASTING	A						$5,335			$9,703			
MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT UPGRADE	A						$1,339						
MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS)	A						$431			$440			$450

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
COMM ELECT MODS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
MOD# 00-001, NEXRAD UPGRADES	A						$3,344			$2,349			$2,964
MOD# 06-001, AIR FORCE COMBAT CLIMATOLOGY CENTER - UPGRADE	A									$1,800			$2,000
MOD# 06-002, OBSERVATION SYSTEM 21ST CENTURY (2)	A									$5,500			$2,715
MOD# 06-003, WEATHER DATA ANALYSIS	A									$4,891			$3,000
MOD# 07-001, WEATHER FORECASTING MODERNIZATION	A												$11,929
MOD# 08-001, OPTICAL SOLAR PATROL NETWORK (OSPAN)	A												$1,500
MISCELLANEOUS LOW COST MODIFICATIONS	A												$1,800
SHARED EARLY WARNING SYSTEM (SEWS)	A						$290			$300			$254
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A						$651						
NORTH WARNING SYSTEM (NWS)													
FPS-124 RADAR FREQUENCY SYNTHESIZER (FS) (4)	A						$7,550						
END-TO-END (E2E) TESTER (5)	A						$550						

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	**P-1 NOMENCLATURE:** COMM ELECT MODS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TOTALS:							$42,884			$39,193			$33,258

Remarks:

Total Cost information is in thousands of dollars.

(1) FY07 funding includes $6.2M GWOT Supplement for TPN-19 Mobile Radar Approach Control, Shelter/Flat Panel Displays/Fiber Optic Modem Cables.
(2) FY08 funding includes $4M Congressional Add for "Fixed Base Weather Observation Systems" originally added to Weather Observation Forecast.
(3) FY07 funding includes $1.7M GWOT Supplement for MSN-7 Mobile ATC Tower Restoral Vehicle Comm Switch.
(4) FY07 funding includes $7.55M GWOT Supplement for FPS-124 Radar Frequency Synthesizer (FS)
(5) FY07 funding includes $550k GWOT Supplement for End-to-End (E2E) Tester

INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

DATE: FEBRUARY 2008

Modification Title and No: Weather Forecasting Modification, 07-001

Models of System Affected: Comm Electronics - Weather Observation/Forecast

Description/ Justification: Provides technology refresh for computer processors, memory, and storage devices supporting numerical weather prediction within the AF Weather Strategic Center. Refresh required to meet increased processing demands of numerical mesoscale weather models and to reduce sustainment costs associated with legacy equipment. Additionally, upgrades needed to support ensemble forecasting processes and Operational Risk Management techniques that will yield improved weather and cloud forecasts for AF and Army operations worldwide.

Development Status/Major Development Milestones: Mar 09 IOC for CONUS ensemble forecast enclave

FINANCIAL PLAN $ (in Actual Dollars)	PY		FY2007		FY2008		FY2009		FY2010		FY2011		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														
Total RDT&E Costs														
Procurement														
Equipment Kits							3	6.744	3	5.113	3	3.39	9	15.247
Equipment Kits non-recurring														
Engineering Change Orders								1.45		0.965		0.475		2.89
Data														
Training Equipment														
Support Equipment														
Software								2.235		1.87		1.1		5.205
Interim Contractor Support														
Other														
Total Procurement Costs							3	10.429	3	7.948	3	4.965	9	23.342
Hardware Installation														
PY Eqpt (0 kits)														
FY07 Eqpt (0 kits)														
FY08 Eqpt (0 kits)														
FY09 Eqpt (3 kits)							3	1.5					3	1.5
FY10 Eqpt (3 kits)									3	1.2			3	1.2
FY11 Eqpt (3 kits)											3	0.6	3	0.6
Total Installation Costs							3	1.5	3	1.2	3	0.6	9	3.3
Total Modification Costs							3	11.929	3	9.148	3	5.565	9	26.642

Method of Installation: CONTRACTOR, FIELD INSTALL

Admin. Lead-time(After 1 Oct): 3 Month(s)

Production Lead-time: 5 Month(s)

Contract Date:	**PY**	**FY2007**	**FY2008**	**FY2009**	Jan 09
	FY2010	Jan 10	**FY2011**	Jan 11	
Delivery Date:	**PY**	**FY2007**	**FY2008**	**FY2009**	Jun 09
	FY2010	Jun 10	**FY2011**	Jun 11	

Installations:	PY	FY2007				FY2008				FY2009				FY2010				FY2011				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input												3				3				3		9
Output												3				3				3		9

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

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OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

* The P-1 numbers in this exhibit, and the individual documents do not match the P-1 numbers in the Summary Justification Materials on the OSD Website. Please reference the P-1 Crosswalk at the end of the J-book.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** NIGHT VISION GOGGLES

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$28,545	$25,195	$18,626	$28,636	$24,044	$24,516	$25,000

Description:

FY2007 funding total includes $9.317M in GWOT supplemental
FY2008 funding total includes $2.500 in supplemental funding
FY2008 funding total includes a $1.600M Congressional Add in P.L. 110-116, the Department of Defense Appropriations Act, 2008.

Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for takeoff and landings in complete darkness, lights-off air refueling, and visual identification of enemy targets hidden under the night sky. Panoramic Night Vision Goggles (PNVGs) provide the capability to see in night/low visibility conditions, as well as high light conditions such as full moon or heavily lighted residential areas. PNVGs are essential for combat rescue, special operations, and Homeland Security; incorporating a 95 degree field of view reduces the possibility of mid-air collisions during combat/non-combat missions. The goggles are helmet-mounted, battery and/or aircraft powered, and weigh approximately 24.5 ounces. Night Vision Cuing and Display (NVCD) combines the benefits of PNVG with Heads Up Display (HUD) and cueing capabilities.

The lack of Night Vision Goggles (NVGs) will significantly impact combat capability in ever increasing night operations by decreasing flight safety and increasing the risk of fratricide. HH-60 helicopters, HC-130, F-16, and special mission C-130 aircraft operate primarily in covert night operations, frequently in a low-altitude environment. NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability by allowing the use of near daytime tactics, including visual formation criteria. The proliferation of NVG equipped adversaries highlights the urgent need to supply the following critical night vision equipment.

Ground Crew Goggles:

AN/PVS-7D Ground Crew Goggle. This ground crew goggle is used primarily by security forces in conducting air base defense, counter-narcotics,and anti-terrorist operations. The goggle is also used by base recovery after-attack teams and by some non-cockpit aircrew members. The goggle is monocular

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** NIGHT VISION GOGGLES

Description (continued):

with an enhanced third-generation image intensifier.

AN/PVS-14 Ground Crew Goggle. This monocular night vision device is a hand-held, head mounted, helmet mounted, or weapon mounted night vision system which enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and administering first aid in both moonlight and starlight. The large array of capabilities support a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, and security, to name a few. The monocular is also equipped with an IR source, a low-battery indicator, gain control, and a third-generation image intensifier.

AN/PVS-15 Ground Crew Goggle. This binocular goggle is a helmet mounted or hand held night vision system. The binocular goggle is primarily used by Special Forces for night drop operations. They can be used in all nighttime ground operations. Binocular goggles provided the added ability to maintain night vision operations in the event one of the two tubes fail.

AN/PVS-18 Ground Crew Goggle. This monocular night vision device is capable of helmet or weapons mounting, has rugged housing and designed for ground combat airman. The AN/PVS-18 offers greatly improved capability with glasses, goggles or gas mask and are submersible. These devices provide greater depth perception and added capability to respond during light flashes. These devices also enable movement between little to no light situation and the increased light environments experienced in close quarters combat and urban operations.

Air Crew Goggles:

F-4949-TG Aircrew Goggle. The F-4949-TG night vision goggles provide aircraft and ground personnel with the capability to see the horizon, terrain features, and enemy ground fire, as well as reducing the potential for air-to-ground fratricide and possible mid-air collisions during night operations. This goggle is helmet mounted and weighs approximately 28 ounces. The F4949-TG series goggle is equipped with pinnacle tube technology. The F-4949-TG goggle is used by ACC, AMC, AETC, USAFE, PACAF, AFSPC, AFSOC, ANG, and AFRC.

Night Vision Cueing and Display (NVCD). NVCD was a spiral development of PNVG that combines the benefits of PNVG with HUD and cueing capabilities for use on F-15 and F-16 aircraft.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	P-1 NOMENCLATURE: NIGHT VISION GOGGLES

Description (continued):

Panoramic Night Vision Goggle (PNVG). The panoramic night vision capability provides the user with an expanded field of view, which enhances situational awareness and confidence to maneuver safely at night. PNVGs provide aircraft personnel with the capability to see the horizon, terrain features, and enemy ground fire, while reducing the potential for air-to-ground fratricide and mid-air collisions during night operations. The PNVG goggle is used by Air Combat Command (ACC), Air Mobility Command (AMC), Air Education and Training Command (AETC), United States Air Forces in Europe (USAFE), Pacific Air Forces (PACAF), Air Force Space Command (AFSPC), Air Force Special Operations Command (AFSOC), the Air National Guard (ANG), and Air Force Reserve Command (AFRC). Associated development funding is found in PE 0702833F.

Test Sets:

Test Set, Infinity Focus. NVGs require an operational checkout prior to flying. The infinity focus test set (ANV-20/20) is a portable instrument, which allows quick and accurate evaluation and adjustment of all goggle parameters.

Test Set, Infrared Viewer (ANV-126A). The ANV-126A is a commercial upgrade and replacement of the ANV-126. It is suitable for both field operational checks and depot level NVG maintenance. It provides accurate checks for NVG resolution, gain, power drain, binocular goggle collimation, image quality, and image distortion. The ANV-126A uses state of the art technology and provides enhanced capabilities to the user. This is a commercial item.

Items request in FY09 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force Mission Requirements.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
GROUNDCREW GOGGLES													
AN/PVS-7D GROUNDCREW GOGGLES	A				137	$2,956	$405	78	$3,528	$275	100	$3,599	$360
AN/PVS-7D GROUNDCREW GOGGLES	A				2,039	$2,814	$5,738						
AN/PVS-7D GROUNDCREW GOGGLES	A				668	$3,656	$2,442						
AN/PVS-14 GROUNDCREW GOGGLES	A				18	$3,067	$55	90	$3,684	$332	73	$3,800	$277
AN/PVS-14 GROUNDCREW GOGGLES	A				50	$2,997	$150						
AN/PVS-14 GROUNDCREW GOGGLES	A				276	$2,900	$800						
AN/PVS-14 GROUNDCREW GOGGLES	A				5	$4,169	$21						
AN/PVS-14 GROUNDCREW GOGGLES	A				15	$4,099	$61						
AN/PVS-14 GROUNDCREW GOGGLES	A				82	$4,076	$334						
AN/PVS-15 GROUNDCREW GOGGLES	A							50	$8,292	$415			
AN/PVS-18 GROUNDCREW GOGGLES	A							2	$4,800	$10			
AIRCREW GOGGLES													
F-4949G-TG AIRCREW GOGGLES	A				1	$5,814	$06	50	$5,972	$299	50	$6,109	$305

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
F-4949H-TG AIRCREW GOGGLES	A				1	$5,800	$06	50	$5,912	$296	50	$6,039	$302
NVCD - NSL	A				2	$295,500	$591	15	$145,200	$2,178	95	$146,368	$13,905
PANORAMIC NIGHT VISION GOGGLES	A				286	$60,407	$17,276	251	$66,656	$16,731	39	$67,357	$2,627
PROGRAM MANAGEMENT ADMINISTRATION & MISSION SUPPORT							$300			$300			$300
GUARDIAN ANGEL H-60 QUAD GOGGLES	A										125	$3,616	$452
NGB H-60 QUAD GOGGLES	A							441	$3,624	$1,598			
COMBAT SEARCH & RESCUE (CSAR) NVD													
BINOCULAR NVG	A							44	$3,673	$162			
MONICULAR NVG	A							188	$4,976	$935			
THERMAL NVG	A							140	$7,461	$1,045			
TEST SET, INFINITY FOCUS	A							10	$5,870	$59			
TEST SET, INFRARED VIEWER	A							10	$29,660	$297			
TEST SETS													
TEST SET, INFINITY FOCUS	A				20	$5,525	$111	10	$5,860	$59	1	$6,192	$06

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TEST SET, INFRARED VIEWER (ANV-126A)	A				10	$24,778	$248	7	$29,657	$208	3	$30,400	$91
TOTALS:					3,610		$28,544	1,436		$25,195	536		$18,626

Remarks:
Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
GROUNDCREW GOGGLES									
AN/PVS-7D GROUNDCREW GOGGLES									
FY2007(2,6)	137	$2,956	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Jul-07	Jul-08		
FY2007(2,6)	2,039	$2,814	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Aug-07	Sep-08		
FY2007(3,6)	668	$3,656	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ LITTON/ TEMPE, AZ	Aug-07	Apr-08		
FY2008(2,6)	78	$3,528	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Apr-08	Apr-09	Yes	
FY2009(2,6)	100	$3,599	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Feb-09	Feb-10	Yes	
AN/PVS-14 GROUNDCREW GOGGLES									
FY2007(3,6)	15	$4,099	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ LITTON/ GARLAND, TX	Jul-07	Apr-09		
FY2007(2,6)	18	$3,067	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Jul-07	Jul-08		
FY2007(3,6)	82	$4,076	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ LITTON/ GARLAND, TX	Aug-07	Feb-08		

	P-1 ITEM NO		PAGE NO:		Page 1 of 6
	64		7		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2007(3,6)	5	$4,169	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ LITTON/ GARLAND, TX	Jul-07	Apr-09		
FY2007(2,6)	276	$2,900	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Aug-07	Sep-08		
FY2007(2,6)	50	$2,997	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Jul-07	Jul-08		
FY2008(2,6)	90	$3,684	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Apr-08	Apr-09	Yes	
FY2009(2,6)	73	$3,800	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Feb-09	Feb-10	Yes	
AN/PVS-15 GROUNDCREW GOGGLES									
FY2008(1)	50	$8,292	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/ LITTON/ TEMPE, AZ	Jul-08	Jul-09	Yes	
AN/PVS-18 GROUNDCREW GOGGLES									
FY2008(4)	2	$4,800	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/ LITTON/ TEMPE, AZ	Apr-08	Apr-09	Yes	
AIRCREW GOGGLES									
F-4949G-TG AIRCREW GOGGLES									
FY2007(7)	1	$5,814	AFMC/WR-ALC	OPT/FFP	ITT/ ROANAKE, VA	Apr-07	Feb-08		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2008(7)	50	$5,972	AFMC/WR-ALC	OPT/FFP	ITT/ ROANAKE, VA	Mar-08	Mar-09	Yes	
FY2009(8)	50	$6,109	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-09	Jan-10	Yes	
F-4949H-TG AIRCREW GOGGLES									
FY2007(7)	1	$5,800	AFMC/WR-ALC	OPT/FFP	ITT/ ROANAKE, VA	Apr-07	Mar-08		
FY2008(7)	50	$5,912	AFMC/WR-ALC	OPT/FFP	ITT/ ROANAKE, VA	Mar-08	Mar-09	Yes	
FY2009(8)	50	$6,039	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-09	Jan-10	Yes	
NVCD - NSL									
FY2007	2	$295,500	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Dec-07	May-08		
FY2008	15	$145,200	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	May-08	May-09	Yes	
FY2009	95	$146,368	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Feb-09	Jun-10	Yes	
PANORAMIC NIGHT VISION GOGGLES									
FY2007	286	$60,407	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-07	Jul-08		
FY2008	251	$66,656	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-08	Oct-09		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009	39	$67,357	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-09	Oct-09	Yes	
GUARDIAN ANGEL H-60 QUAD GOGGLES									
FY2009(4)	125	$3,616	AFMC/WR-ALC	OPT/FFP	UNKNOWN	Jan-09	Dec-10	Yes	
NGB H-60 QUAD GOGGLES									
FY2008	441	$3,624	AFMC/WR-ALC	MIPR/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Mar-08	Jul-08	Yes	
COMBAT SEARCH & RESCUE (CSAR) NVD									
BINOCULAR NVG									
FY2008(2)	44	$3,673	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Apr-08	Dec-08	Yes	
MONICULAR NVG									
FY2008(2)	188	$4,976	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Apr-08	Dec-08	Yes	
THERMAL NVG									
FY2008(2)	140	$7,461	AFMC/WR-ALC	MIPR/OTH/FFP	ARMY/ ARMY/ CECOM/ ITT/ ROANOKE, VA	Mar-08	Sep-08	Yes	

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
TEST SET, INFINITY FOCUS									
FY2008(9)	10	$5,870	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Mar-08	Aug-08	Yes	
TEST SET, INFRARED VIEWER									
FY2008(9)	10	$29,660	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Mar-08	Aug-08	Yes	
TEST SETS									
TEST SET, INFINITY FOCUS									
FY2007	20	$5,525	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Jan-07	Jul-07		
FY2008(9)	10	$5,860	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Mar-08	Jul-08	Yes	
FY2009(5)	1	$6,192	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-09	Jul-09	Yes	
TEST SET, INFRARED VIEWER (ANV-126A)									
FY2008(9)	7	$29,657	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Mar-08	Oct-08	Yes	
FY2007	10	$24,778	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Jan-07	Jul-07		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
NIGHT VISION GOGGLES

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(9)	3	$30,400	AFMC/WR-ALC	OPT/IDIQ	HOFFMAN ENG/ STAMFORD, CT	Jan-09	Jul-09	Yes	

Remarks:

Cost information is in actual dollars.

(1) Basic Contract N00164-04-D-8530 awarded in FY04 w/4 option years
(2) Basic Army Contract W9124Q-05-D00821 awarded FY05 w/4 option years
(3) Basic Army Contract W9124Q-05-D-0823 awarded FY05 w/4 option years
(4) Basic Navy Contract N00164-05-D-8554 awarded FY05 w/4 option years
(5) Basic Contract w/options to be awarded - In work.
(6) Contracts are split awards may award to ITT or NG (Litton).
(7) Basic contract FY04 extended. Basic expires 28 Mar 07, with an option to exercise 18 month option.
(8) New Contract Award
(9) Basic Contract FA8539-07-D-0008 awarded FY07 w/4 option years

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$14,534	$22,029	$21,573	$16,237	$16,475	$16,799	$17,174

Description:

The Mechanized Material Handling Equipment line provides funding for Mechanized Material Handling Systems (MMHS) and Storage Aids Systems (SAS).

MMHS/SAS PROGRAMS: MMHS and SAS programs provide bases worldwide with automated and static equipment to store, receive, and ship material. MMHS and SAS equipment involves the design and acquisition of mechanized and non-mechanized material handling systems such as receiving, storage, and distribution systems; high density storage systems; and a variety of SAS equipment including racks, bin shelving, modular cabinets, and mezzanines. Transportation systems generally include equipment such as inbound/outbound baggage conveyor systems for passenger terminals; heavy duty freight handling 463L conveyors, pallet build-up/breakdown lift conveyor stations, cargo staging racks, and overhead bridge cranes for air freight terminal systems; roller conveyors and overhead cranes for aerial delivery facility systems; narrow aisle vehicle replacements; and external aircraft fuel tank storage systems. Adequately equipped facilities are essential to the storage and handling of weapon system components, and the processing of personnel, baggage, and freight to reduce pipeline time and to provide Air Force capability to respond to crises and threats whenever they occur in the world. MMHS/SAS equipment increases the productivity of Air Force support personnel, enhances management control of assets, reduces multiple handling of logistics material, increases flexibility at a minimum investment cost, enhances safety, reduces losses due to damage of materials in transport, and reduces congestion and delays in supply, passenger, and air freight terminal operations.

FY08 and FY09 funding increase supports MMHS for Japanese Facilities Improvement Project (JFIP AF628), Air Freight Terminal - Inbound, Yokota AB, JA.

Mechanized Material Handling projects are identified on the attached P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MECHANIZED MATERIAL HANDLING EQUIPMENT					{$14,534}		{$22,029}		{$21,573}
AIR COMBAT COMMAND (ACC)					{$947}		{$2,000}		{$1,875}
STORAGE AIDS SYSTEM	A				{$72}		{$1,450}		{$1,625}
FT BLISS TX (ACC)							$250		
LANGLEY AFB, VA							$375		
MALMSTROM AFB, MT									$350
MINOT AFB, ND							$300		
MOODY AFB, GA (1)					$72				$650
MT HOME AFB, ID							$300		
NELLIS AFB, NV									$250
SEYMOUR JOHNSON AFB, NC							$225		
WRIGHT-PATTERSON AFB, OH									$375
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A						{$550}		
OFFUTT AFB, NB (1)							$225		
NELLIS AFB, NV (1)							$325		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A				{$875}				
MOODY AFB, GA					$875				
NARROW AISLE VEHICLE REPLACEMENT	A								{$250}
HOLLOMAN AFB, NM									$250
AIR EDUCATION & TRAINING COMMAND (AETC)					{$377}		{$645}		{$575}
STORAGE AIDS SYSTEM	A				{$377}		{$445}		{$575}
ALTUS AFB, OK							$100		$100
COLUMBUS AFB, MS					$69				
FT RUCKER AL (AETC)							$225		
LACKLAND AFB, TX							$120		$275
RANDOLPH AFB, TX									$200
TYNDALL AFB, FL									
VANCE AFB, OK (1)					$108				
CONVEYOR SYSTEM	A						{$200}		
MAXWELL AFB, AL							$200		

	P-1 ITEM NO 65		PAGE NO: 15		Page 2 of 10

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AF CIVIL ENGINEERING & SUPPORT AGENCY (AFCESA)					{$698}				
STORAGE AIDS SYSTEM	A				{$698}				
RAMSTEIN AB, GE (1)					$658				
YOKOTA AB, JA					$40				
AIR FORCE MATERIEL COMMAND (AFMC)					{$2,035}		{$2,022}		{$2,110}
HIGH DENSITY STORAGE SYSTEM	A				{$1,182}		{$1,522}		{$686}
HILL AFB, UT					$873		$1,522		$686
ROBINS AFB, GA					$309				
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{$430}		{$300}		{$1,200}
EGLIN AFB, FL					$250				
LACKLAND AFB, TX					$180				
ROBINS AFB, GA							$300		$1,200
STORAGE AIDS SYSTEM	A				{$246}		{$200}		{$224}
HANSCOM AFB, MA					$120				
HILL AFB, UT									$224

	P-1 ITEM NO 65		PAGE NO: 16		Page 3 of 10

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ROBINS AFB, GA					$126		$200		
PTS	A				{$177}				
HILL AFB, UT					$177				
AIR FORCE SPACE COMMAND (AFSPC)					{$371}		{$350}		{$200}
STORAGE AIDS SYSTEM	A				{$281}		{$350}		{$200}
ANTIGUA AIR STATION					$101				
FE WARREN AFB, WY					$180				
PATRICK AFB, FL							$150		
SCHRIEVER AFB, CO							$200		
VARIOUS									$200
OVERHEAD BRIDGE CRANES	A				{$90}				
FE WARREN AFB, WY					$90				
AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC)					{$225}		{$490}		{$223}
RECEIVING, STORAGE AND DISTRIBUTION SYSTEM	A								{$223}
KADENA AB, JA (1)									$223

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STORAGE AIDS SYSTEM	A				{$225}		{$490}		
CANNON AFB, NM							$290		
HURLBURT FIELD AFB, FL					$225		$200		
AIR MOBILITY COMMAND (AMC)					{$5,063}		{$12,033}		{$11,758}
AIR FREIGHT TERMINAL	A				{$2,095}		{$11,833}		{$9,758}
CHARLESTON AFB, SC					$2,095				
DOVER AFB, DE							$333		
RAMSTEIN AB, GE							$600		
YOKOTA AB, JA (1)							$10,700		$9,558
SOUDA BAY NAS CRETE									$200
KADENA AB, JA							$200		
BAGGAGE CONVEYOR SYS	A				{$1,090}				{$400}
IWANKUNI MCAS, JA (1)					$490				
KADENA AB, JA									
YOKOTA AB, JA					$600				

	P-1 ITEM NO 65		PAGE NO: 18		Page 5 of 10

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SOUDA BAY NAS CRETE									$400
HIGH DENSITY STORAGE SYSTEM	A				{$1,170}				{$300}
DOVER AFB, DE (1)									$300
TRAVIS AFB, CA (1)					$1,170				
STORAGE AIDS SYSTEM	A				{$708}		{$200}		{$500}
DOVER AFB, DE (1)					$230				
MACDILL AFB, FL					$278				
TRAVIS AFB, CA (MCP) (1)					$200		$200		$400
SCOTT AFB IL									$100
AERIAL DELIVERY FACILITY	A								{$500}
CHARLESTON AFB, SC (MCP) (1)									$500
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A								{$300}
FAIRCHILD AFB, WA (MCP) (1)									$300
AIR NATIONAL GUARD (ANG)					{$1,202}		{$1,862}		{$2,323}
HIGH DENSITY STORAGE SYSTEM	A								{$300}

	P-1 ITEM NO		PAGE NO:		
	65		19		Page 6 of 10

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CORAOPOLIS ANGB, PA									$300
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{$534}		{$962}		{$623}
BANGOR ANGB, ME (1)					$284				
HILO ANGB, HI					$250				
MEMPHIS ANGB, TN (1)							$362		
NEW ORLEANS ANGB, LA (1)							$250		
SCOTT ANGB, IL (1)							$350		
STRATTON ANGB, NY (1)									$350
WILLOW GROVE ANGB PA									$273
STORAGE AIDS SYSTEM	A				{$668}		{$900}		{$1,400}
CHEYENNE ANGB, WY (1)					$384				
CORAOPOLIS ANGB, PA									$100
DULUTH ANGB, MN									$350
HARRISBURG ANGB PA					$284				
MARTINSBURG ANGB, WV (1)							$600		

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
NEW CASTLE ANGB, DE							$300		
EBBING ANGB AR									$150
HICKAM ANGB HI (MCP)									$250
MOFFETT ANGB CA									$300
STEWART ANGB, NY									$250
PACIFIC AIR FORCES (PACAF)					{$1,160}		{$827}		{$1,683}
AIR MAIL CONVEYOR SYSTEM	A								{$680}
YOKOTA AB, JA (1)									$680
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{$500}		{$227}		{$700}
ANDERSEN AFB, GUAM							$227		
ELMENDORF AFB, AK					$500				
KADENA AB, JA (1)									
STORAGE AIDS SYSTEM	A				{$660}		{$600}		
ANDERSEN AFB, GUAM							$300		
ELMENDORF AFB, AK (1)					$660				

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HICKAM AFB, HI							$300		
VEHICLE REPLACEMENT	A								{$303}
MISAWA AB, JA									$303
US AIR FORCES EUROPE (USAFE)					{$616}		{$1,800}		{$826}
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A						{$1,500}		
RAF LAKENHEATH, UK							$1,500		
CONVEYOR SYSTEM	A								$326
NARROW AISLE VEHICLE REPLACEMENT	A				{$191}				
RAF LAKENHEATH, UK					$91				
RAMSTEIN AB, GE					$100				
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{$425}		{$300}		
RAF LAKENHEATH, UK							$300		
RAMSTEIN AB, GE					$425				
STORAGE AIDS SYSTEM	A								{$500}
RAF LAKENHEATH, UK									$250

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
RAF MILDENHALL, UK									$250
RAMSTEIN AB, GE									
USAF-WIDE/AIT					{$1,840}				
COMBAT AMMUNITION SYSTEM	A				$650				
EXPLOSIVE ORDINANCE AIT	A				$640				
POINT OF MAINTENANCE (POMX)	A				$550				
TOTALS:					$14,534		$22,029		$21,573

Remarks:

Cost information is in thousands of dollars.

(1) (MCP) - MMHS Projects associated with Military Construction Projects.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: BASE PROCURED EQUIPMENT			
		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$31,972	$27,892	$17,038	$12,194	$12,393	$12,634	$12,898

Description:

FY2007 funding total includes $10.530M in GWOT supplemental.
FY2008 funding total includes $10.720M recieved Congressional Add in P.L. 110-116, the Department of Defense Appropriation Act

Organizations throughout the Air Force acquire authorized equipment from the General Services Administration, Defense Logistics Agency, and commercial sources which cost $250,000 or more. Typically this P-1 line procures equipment and/or specialized tools for road and ground maintenance; vehicle maintenance; vehicle corrosion control; civil engineering maintenance; electrical and carpentry shops; specialized laboratories; kitchen and dining facilities; printing plants; microfilm and graphics support facilities; power conditioning & continuation interface equipment(PCCIE)/uninterruptible power supply (UPS), and to satisfy air conditioning and heating requirements.

The equipment described above is needed for day-to-day maintenance and operation of bases, and for indirect support of weapon systems assigned to active, Air National Guard, and Air Force Reserve forces. The program supports organizations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; bed down of new weapon systems; reorganizations; natural disasters; new operational methods to increase efficiency & safety; and energy conservation initiatives.

Requirements programmed by Air Force major commands and/or field operating agencies are displayed on the following P-40A Budget Exhibit.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** BASE PROCURED EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BASE PROCURED EQUIPMENT									
AF CIVIL ENGR SPT AGENCY	A				$481		$520		$530
AF SPACE CMD	A				$474		$2,500		$517
AF SPEC OPERATIONS CMD	A				$604		$648		$665
AIR COMBAT CMD	A				$2,891		$3,079		$3,201
AIR EDUCATION & TRAINING CMD	A				$9,267		$4,749		$5,039
AIR MOBILITY CMD	A						$1,987		
AIR NATIONAL GUARD	A						$6,664		
PACIFIC AIR FORCES	A				$580		$621		$638
US AIR FORCES EUROPE	A				$10,877		$713		$733
US AIR FORCE ACADEMY	A				$6,798		$1,396		$1,444
PCCIE									
AF MATERIEL CMD	A						$587		$574
AF SPACE CMD	A						$281		$275
AIR COMBAT CMD	A						$1,084		$676

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
BASE PROCURED EQUIPMENT

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR EDUCATION & TRAINING CMD	A						$283		
AIR FORCE RESERVE CMD	A						$195		$200
AIR MOBILITY CMD	A						$271		$268
AIR NATIONAL GUARD	A						$1,581		$1,543
PACIFIC AIR FORCES	A						$416		$423
US AIR FORCES EUROPE	A						$317		$312
TOTALS:					$31,972		$27,892		$17,038

Remarks:

Cost information is in thousands of dollars.

	P-1 ITEM NO		PAGE NO:		Page 2 of 2
	66		26		

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** CONTINGENCY OPERATIONS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$16,426	$6,179	$6,483	$6,606	$6,767	$6,899	$7,036

Description:

FY2007 funding total includes $7.200M in GWOT supplemental.
FY2008 funding total does not include $9.200M in FY2008 GWOT requirements still pending.

Contingency Operations, formerly known as Air Base Operability (ABO) and part of the Agile Combat Support framework, provides integrated capabilities to support aircraft deployment, launch, recovery, and regeneration at air bases worldwide. Contingency Operations and Air Force Civil Engineering Readiness' top priorities are to safely perform reconnaissance, locate and neutralize unexploded ordnance, and accomplish damage assessment. Force protection capabilities, including explosive ordnance disposal (EOD) operations, are increasingly vital in protecting personnel, aircraft, and other critical resources both at home and abroad. In addition to wartime operations, EOD supports global contingencies for force protection, relief efforts, and special operations. Contingency Operations capabilities provided by robotics programs are crucial in reducing time and danger when investigating and eliminating explosive hazards.

The All-purpose Remote Transport System (ARTS) is a low cost survivable platform capable of remote operations at distances of up to 3 miles. ARTS was designed as a delivery platform to support a basic set of EOD attachments and new attachments and tools to be developed and integrated over a period of several years (spiral development). It supports a multitude of contingency operations and is a vital component of global deployments and rapid response capabilities.

ARTS Attachments/EOD Support Equipment/Man Transportable Robotics System (MTRS) / Advanced EOD Robotics system (formerly called Next Generation Robotics) dramatically improves safety and response time when neutralizing explosive hazards, thus saving lives and reducing damage. The Air Force requires the items identified on the attached P-5 for the safety of deployed personnel and expedient removal of unexploded ordnance hazards and improvised explosive devices.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** CONTINGENCY OPERATIONS

Description (continued):

Items requested in FY09 are identified on the attached P-5 and are representative of items to be procured. Items procured during execution may change based upon critical equipment needed to support current Air Force mission requirements.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
CONTINGENCY OPERATIONS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
A. ARTS / EOD EQUIPMENT							{$1,664}			{$1,486}			{$1,110}
A.1. ENGINEERING CHANGE ORDERS							$1,016			$1,008			$614
A.2. INTERIM CONTRACTOR SUPPORT (ICS)							$300			$200			$100
A.3. PROGRAM SUPPORT							$348			$278			$396
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT					87		{$3,362}	31		{$4,693}	38		{$5,373}
B.1. ARTS BOX RAKE	A										12	$41,667	$500
B.2. ARTS TRAILERS	A				73	$17,192	$1,255						
B.3. SUBMUNITIONS CLEARANCE SYSTEM (SCS)	A										1	$150,000	$150
B.4. MAN TRANSPORTABLE ROBOTICS SYSTEM (MTRS)	A				14	$150,500	$2,107	31	$151,387	$4,693	15	$150,000	$2,250
B.5. ADVANCE EOD ROBOTICS (A.K.A.NEXT GENERATION ROBOTICS)	A										10	$247,300	$2,473
C. RED HORSE EQUIPMENT													
MINE AREA CLEARANCE EQUIPMENT	A				7	$1,028,571	$7,200						
D. RADAR TEST SET, IDENTIFICATION FRIEND OR FOE													
RADAR TEST SET	A				1	$4,200,000	$4,200						

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** CONTINGENCY OPERATIONS

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TOTALS:							$16,426			$6,179			$6,483

Remarks:

Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** CONTINGENCY OPERATIONS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT									
B.1. ARTS BOX RAKE									
FY2009(1)	12	$41,667	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/ SOUTH ROYALTON, VT	Mar-09	Apr-09	Yes	
B.2. ARTS TRAILERS									
FY2007(2)	73	$17,192	AFMC/AAC	DO/IDIQ	LANDOLL CORPORATION/ MARYSVILLE, KS	Jun-07	Dec-07		
B.3. SUBMUNITIONS CLEARANCE SYSTEM (SCS)									
FY2009(3)	1	$150,000	AFMC/AAC	MIPR/OPT/FFP	NAVY/ PRECISION REMOTE, INC/ SAN FRANCISCO, CA	Jun-09	Oct-09	Yes	
B.4. MAN TRANSPORTABLE ROBOTICS SYSTEM (MTRS)									
FY2007(4)	14	$150,500	HQ ACC	DO/FFP W/OPT	REMOTEC, INC/ OAK RIDGE, TN	Feb-07	Apr-07		
FY2008(4)	31	$151,387	HQ ACC	OPT/FFP	REMOTEC, INC/ OAK RIDGE, TN	Mar-08	May-08	Yes	

	P-1 ITEM NO 68		PAGE NO: 31		Page 1 of 3

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
CONTINGENCY OPERATIONS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(4)	15	$150,000	HQ ACC	OPT/FFP	REMOTEC, INC/ OAK RIDGE, TN	Mar-09	May-09	Yes	
B.5. ADVANCE EOD ROBOTICS (A.K.A.NEXT GENERATION ROBOTICS)									
FY2009	10	$247,300	HQ ACC	C/FFP W/OPT	UNKNOWN	Feb-09	Apr-09	Yes	
C. RED HORSE EQUIPMENT									
MINE AREA CLEARANCE EQUIPMENT									
FY2007(4)	7	$1,028,571	HQ ACC	C/FFP W/OPT	REMOTEC, INC/ OAK RIDGE, TN	Dec-07	Feb-08		
D. RADAR TEST SET, IDENTIFICATION FRIEND OR FOE									
RADAR TEST SET									
FY2007	1	$4,200,000	AFMC/WR-ALC	C/FFP	AERO FLEX/ WITCHATA, KS	Apr-07	Sep-07		

Remarks:

Cost information is in actual dollars.

(1) ARTS Box Rake Attachment procurement will be modification to contract F08635-02-C0100 awarded 28June2002.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** CONTINGENCY OPERATIONS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(2) ARTS Trailer Contract FA8678-06-D0243 awarded LANDOLL CORPORATION/MARYSVILLE, KS in June 2006. Delivery order 0003 awarded 24 Sept 2007.
(3) Basic Contract N00174-04-D-0001/FFP awarded 18 Dec 03. Reseach and Development contract with Production Options.
(4) Mutilple award and delivery dates to be awarded to existing contracts. Award and delivery dates reflect date of first award and delivery: N00174-03-D-0002, awarded 29 October 2002 Foster-Miller Inc/Waltham, MA., delivery order 0012 awarded 20 Sept 2006, N00174-03-D-0003, awarded 29 Oct 2002 IROBOT Corp/Burlington, MA, delivery order 0014 awarded 15 Sept 2006.

	P-1 ITEM NO 68		PAGE NO: 33		Page 3 of 3

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** PRODUCTIVITY CAPITAL INVESTMENTS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$5,379	$3,014	$3,021	$3,064	$3,150	$0	$0

Description:

This P-1 line funds Air Force Productivity Capital Investment (PCI) projects in the Productivity Investment Fund (PIF) program. Funds are available to all Air Force organizations to encourage productivity enhancements for more efficient operations and focus on labor cost savings and reductions in unit costs of operations. This program conserves critical resources, enhances unit capability, and improves combat effectiveness. Major Commands (MAJCOMs) provide their own offsets from projected savings to sustain future investments for this program. Elimination of this funding would reduce the capability to implement productivity improvements and enhancements in the work place, throughout the Air Force.

To qualify for the PIF program, projects must cost $250,000 or more and amortize in less than four years. Projects are approved based on shortest payback and highest rate of return on investment. Projects continue to yield life cycle savings of over $3 for every $1 invested. Productivity Capital Investments is an ongoing program.

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
PRODUCTIVITY CAPITAL INVESTMENTS

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS									
ACC ALARM SYSTEM UPGRADE	A			1	$800				
AF WIDE PROJECTS	A			1	$4,579	1	$3,014	1	$3,021
TOTALS:				2	$5,379	1	$3,014	1	$3,021

Remarks:

Cost information is in thousands of dollars.

	P-1 ITEM NO		PAGE NO:		Page 1 of 1
	69		35		

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** PRODUCTIVITY CAPITAL INVESTMENTS

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS									
ACC ALARM SYSTEM UPGRADE									
FY2007	1	$800	HQ ACC	C/FFP	HONEYWELL PRODUCTS INC/ AUSTIN, TX	Aug-07	Dec-07		
AF WIDE PROJECTS									
FY2007	1	$4,579		/	UNKNOWN				
FY2008	1	$3,014		/	UNKNOWN				
FY2009	1	$3,021		/	UNKNOWN				

Remarks:

Cost information is in thousands of dollars.

	P-1 ITEM NO		PAGE NO:		Page 1 of 1
	69		36		

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MOBILITY EQUIPMENT

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$25,938	$36,683	$26,459	$33,332	$49,681	$31,109	$31,800

Description:

MOBILITY EQUIPMENT: This program funds procurement of Basic Expeditionary Airfield Resources (BEAR). It includes equipment to support the bed down of deployed forces (personnel, aircraft, support equipment, and munitions) at austere sites lacking infrastructure. BEAR assets are a critical enabler for the Expeditionary Air Force. The BEAR program is in the midst of transitioning from 1100-person set (Harvest Falcon) configurations to 150 and 550-person force module packages. Force modules repackage existing BEAR sets into lighter, leaner, more deployable configurations. BEAR sets are composed of six types of support packages. The Swift BEAR set supports 150 personnel and provides an "open the air base" capability until follow-on forces arrive. The BEAR 550 Initial and BEAR 550 Follow-on Housekeeping packages provide support in 550-person increments with a robust tent city (kitchen, laundry, hygiene facilities, billeting, and power generation). The BEAR Follow-on Flight line packages consist of airfield lighting, aircraft hangars, fire stations, and numerous additional systems to support flight line operations. Training Equipment provides new and replacement equipment items to support BEAR training facilities at Tyndall AFB, FL, Kadena AB, Japan, and Ramstein AB, Germany, as well as Air Force Reserve regional training sites. Costs include inventory reconstitution, spares and consumables, repairs, and procurement of new equipment for upgrades or full set replacement. BEAR demonstrated its critical role in support of Operations Enduring Freedom and Iraqi Freedom. More recently, BEAR 550 Housekeeping sets proved invaluable in support of civil/military Hurricane Katrina recovery operations along the Gulf Coast.

The AF continues to modernize major BEAR components to replace obsolete items (e.g. heaters, water and freeze protection, water systems, power generation and expeditionary airfield lighting).

Items requested in FY09 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MOBILITY EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE				FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
MOBILITY EQUIPMENT (SETS)					634		{$25,938}	611		{$36,683}	580		{$26,459}
TRAINING EQUIPMENT	A				1	$1,353,704	$1,354	1	$1,458,032	$1,458	1	$1,088,276	$1,088
MODERNIZATION					633		{$24,584}	610		{$35,225}	579		{$25,371}
HEATERS	A				532	$3,277	$1,743	532	$3,374	$1,795	532	$3,475	$1,849
FORCE MODULE WATER SYSTEM	A				97	$214,856	$20,841	35	$237,904	$8,327	16	$251,189	$4,019
POWER GENERATION	A				4	$499,975	$2,000	38	$547,220	$20,794	26	$580,885	$15,103
EALS	A							5	$861,800	$4,309	5	$880,000	$4,400
TOTALS:							$25,938			$36,683			$26,459

Remarks:
Total Cost information is in thousands of dollars.

	P-1 ITEM NO		PAGE NO:		Page 1 of 1
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MOBILITY EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
MOBILITY EQUIPMENT (SETS)									
TRAINING EQUIPMENT									
FY2007(1-2)			AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Apr-08	Jul-08	Yes	
FY2008(1-2)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Mar-08	Feb-09	Yes	
FY2009(1-2)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Mar-09	Feb-10	Yes	
MODERNIZATION									
HEATERS									
FY2007(3)			AFMC/WR-ALC	OPT/FFP	POLAR THERM/ LUVIA, FI	Dec-06	Sep-07		
FY2008(3)			AFMC/WR-ALC	OPT/FFP	POLAR THERM/ LUVIA, FI	Dec-07	Feb-08		
FY2009(3)			AFMC/WR-ALC	OPT/FFP	POLAR THERM/ LUVIA, FI	Dec-08	Feb-09	Yes	
FORCE MODULE WATER SYSTEM									
FY2007(4)			AFMC/WR-ALC	OPT/FFP	JGB ENTERPRISES INC./ LIVERPOOL, NY	Dec-06	Aug-07		
FY2008(4)			AFMC/WR-ALC	OPT/FFP	JGB ENTERPRISES INC./ LIVERPOOL, NY	Dec-07	Mar-08		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | **DATE:** FEBRUARY 2008

APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
MOBILITY EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
FY2009(4)			AFMC/WR-ALC	OPT/FFP	JGB ENTERPRISES INC./ LIVERPOOL, NY	Dec-08	Mar-09	Yes	
POWER GENERATION									
FY2007			AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Dec-08	Mar-09	Yes	
FY2008			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Apr-09	Jun-09	Yes	
FY2009			AFMC/WR-ALC	OPT/FFP	UNKNOWN	May-09	Feb-10	Yes	
EALS									
FY2008			AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Jun-08	Apr-09	Yes	
FY2009			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Jun-09	Sep-09	Yes	

Remarks:

(1) Quantity/unit costs vary depending on types/configurations of equipment being procured.
(2) Various contract methods, types and sources will be utilized. Multiple contractors will be used to procure individual National Stock Number items to build each set. Examples of contractors include: Army/TACOM Reliance Coated Fabrics, Mansfield, TX; Army/TACOM Reliance Aero, East Camden, AR; Army/SBCCOM, Natick, MA; AAR Manufacturing Inc., Cadillac, MI; KECO Industries Inc., Florence, KY; Highland Engineering Inc., Howell, MI; JGB Enterprises Inc., Liverpool, NY; UNICOR, Big Springs, TX; Engineered Arresting System, Co., Aston, PA; Gil Marketing, Phoenix, AZ; Eagle Marketing, Houston, TX; Procurement/SPS, West Caldwell, NJ; Radian, Inc., Alexandria, VA; Simplex Inc., Springfield, IL; MC II General Electric, Inc., Tulsa, OK; Alaska Industrial Resources, Inc., Montrose, CO; California Industrial Facilities, Kirtland, WA; Polartherm, Luvia, Finland; EASC, Aston, PA; Universal Fabric, Quakertown, PA; Hunter Heaters, Solon, OH; and SPX Corporation, Owatona, MN.

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** MOBILITY EQUIPMENT

ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL

(3) Basic Contract FA8533-05-D-0004 awarded Aug 2005 with 4 options.
(4) Modification to the Basic Contract F08635-02-C-0046 awarded Sep 2005 adding 4 option years. Initial Force Module sets were procured prior to the Force Module Water Distribution System configuration baseline being developed. New Force Module water is being procured to backfill the initial sets.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (BASE SUPPORT EQUIP)

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$58,380	$45,271	$14,237	$16,275	$18,068	$17,089	$21,285

Description:

FY2007 funding total includes $18.000M in GWOT suplemental
FY2008 funding total does not include $177.200M in FY2008 GWOT requirements still pending
FY2008 funding total includes $7.100M recieved as a Congressional Add under P.L. 110-116, the Department of Defense Appropriation Act

This program provides a wide variety of base support items with worldwide application. Examples include servicing platforms, aircraft arresting systems, electronic test stations, expandable and nonexpandable shelters, pipe bending machines, electronic test set groups, fuels operational readiness capability equipment, and heat treating furnaces. This equipment provides prime support for all base missions. Lack of funding for these equipment items limits maintenance capabilities, testing functions, antiterrorism/security missions, communications capabilities, flight operations, and the ability of Air Force units to meet deployment requirements.

Safety and rescue equipment is used throughout the Air Force for protection of personnel, equipment, and facilities. Representative items include laser eye protection, survival radio test sets, life rafts, life preservers, breathing equipment, water demineralizers, parachutes and anti exposure coveralls. Personnel safety and rescue equipment is essential for the safety and protection of Air Force resources.

Items requested are identified on the attached P-40A-IL and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (BASE SUPPORT EQUIP)

PROCUREMENT ITEMS	NSN			FY2009	
		QTY.	COST	QTY.	COST
ITEMS LESS THAN $5,000,000 (BASE SUPPORT EQUIP)					
MEDICAL READINESS EQUIPMENT				1	$1
AERO MEDICAL EVACUATION				1	$1,390
MOBILE AIRCRAFT ARRESTING SYSTEM (MAAS)	1710012232235RN			2	$1,429
TEST EQUIPMENT-ELECTRICAL STANDARD	6625014418513RH			3	$1,679
TEST SET GROUP ELECTRONIC	6625011545040RH			4	$1,372
FSC 1710 - AIRCRAFT ARRESTING SYS				1	$566
FSC 6115 - GENERATORS AND GENERATOR SETS, NONAIRBORNE				6	$813
FSC 6625 - ELECTRICAL, ELECTRONIC MEASURING AND TESTING EQUIPMENT				3	$1,073
LIFE SUPPORT EQUIPMENT					
ADVANCED CONCEPT EJECTION SEAT EQUIPMENT	NSL				$3,500
AIRCREW LASER EYE PROTECTION EQUIPMENT	NSL				$1,750

	P-1 ITEM NO		PAGE NO:		Page 1 of 2
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** ITEMS LESS THAN $5 MILLION (BASE SUPPORT EQUIP)

PROCUREMENT ITEMS	NSN	FY2009			
		QTY.	COST	QTY.	COST
FSC 4240 - SAFETY AND RESCUE EQUIPMENT					$664
TOTALS:					$14,237

Remarks:

Cost information is in thousands of dollars.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE: FEBRUARY 2008	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: DARP RC135			
		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$23,609	$22,380	$22,924	$23,468	$23,835	$24,358	$24,892

Description:

Detailed information on the DARP RC 135 program remains classified and will be provided on a need-to-know basis. For further information, please contact AF/A2ZC, (703) 614-7317.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	**P-1 NOMENCLATURE:** DISTRIBUTED GROUND SYSTEMS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$221,468	$197,955	$251,805	$203,350	$167,751	$171,429	$175,186

Description:

FY2007 funding total includes $21.607M in GWOT supplemental.
FY2008 funding totals do not include $56.000M in FY2008 GWOT requirements still pending.
FY2008 funding total includes a $1.600M recieved as a Congressional Add in P.L. 110-116, the Department of Defense Appropriations Act

Detailed information on the Distributed Ground Systems program (formerly know as DARP MRIGS) remains classified and will be provided on a need-to-know basis. For further information, please contact AF/A2ZY, (703) 697-0810.

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 2009

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SPARES AND REPAIR PARTS

* The P-1 numbers in this exhibit, and the individual documents do not match the P-1 numbers in the Summary Justification Materials on the OSD Website. Please reference the P-1 Crosswalk at the end of the J-book.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/SPARES AND REPAIR PARTS	**P-1 NOMENCLATURE:** SPARES & REPAIR PARTS

		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
QUANTITY								
COST (in Thousands)		$30,104	$21,983	$25,616	$23,172	$24,580	$24,035	$24,518

Description:

Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of newly fielded vehicles, communications-electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information. Initial spares are procured using cost authority in the Supply Management Activity Group (SMAG) division of the Air Force Working Capital Fund (AFWCF), with the exception of intelligence and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through the AFWCF, procurement (appropriated) funds reimburse the SMAG as outlays occur and are, therefore, budgeted based on estimated contractor delivery schedules. Procurement funds for AFWCF Exempt spares, which are not managed through the SBSS, are budgeted in the year of the requirement. Appropriated funds for AFWCF Exempt spares obligate when spares are ordered.

Items requested in FY09 are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/SPARES AND REPAIR PARTS	**P-1 NOMENCLATURE:** SPARES & REPAIR PARTS

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SPARES & REPAIR PARTS									
INITIAL SPARES					{$30,104}		{$21,983}		{$25,616}
INFORMATION SYSTEMS SECURITY PROGRAM, PE 0303140F (P-1 LINE NO. 41)	A				$1,344		$1,336		$7,366
AIR TRAFFIC CONTROL & LANDING SYS, PE 0305114F (P-1 LINE NO. 23)	A				$2,775		$3,256		$887
NATIONAL AIRSPACE SYSTEM, PE 0305137F (P-1 LINE NO. 24)	A				$5,414		$5,461		$5,504
WEATHER OBSERVATION/FORECAST, PE 0305111F (P-1 LINE NO. 26)	A				$1,595		$1,644		$1,688
CHEYENNE MOUNTAIN COMPLEX, SPACETRACK, PE 0305906F (P-1 LINE NO. 28)	A				$700		$725		$743
COMBAT AIR INTEL SYS ACTIVITIES, PE 0207431F (P1-LINE NO. 21)	A				$115		$117		$123
MOBILE CONSOLIDATED COMMAND CENTER, PE 0305903F (P-1 LINE NO. 32)	A				$665		$687		$703
COMBAT TRAINING RANGES, PE 0207429F (P-1 LINE NO. 34)	A				$928		$867		$890
THEATER BATTLE MANAGEMENT C2 SYSTEMS, PE 0207438F (P-1 LINE NO. 38)	A				$1,998				
NAVSTAR GPS (SPACE), PE 0305165F (P-1 LINE NO. 44)	A				$324		$337		$344
AF SATELLITE CONTROL NETWORK, PE 0350110F (P-1 LINE NO. 46)	A				$3,551				

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE: FEBRUARY 2008
APPROP CODE/BA: OPAF/SPARES AND REPAIR PARTS	**P-1 NOMENCLATURE:** SPARES & REPAIR PARTS

PROCUREMENT ITEMS	ID CODE			FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SPACELIFT RANGE SYSTEM (SPACE), PE 0305182F (P-1 LINE NO. 47)	A				$2,793		$2,912		$2,957
MILSATCOM (SPACE), PE 0303601F (P-1 LINE NO. 48)	A				$97				
TACTICAL CE EQUIPMENT, PE 0207423F & 0401840F (P-1 LINE NO. 51)	A				$5,209		$2,392		$2,730
TV EQUIPMENT (AFRTV), PE 0808711F (P-1 LINE NO. 54)	A				$261				
THEATER AIR CONTROL SYSTEM IMPROVEMENT, PE 0207412F (P-1 LINE NO. 25)	A				$1,236				
AIR FORCE PHYSICAL SECURITY SYSTEM, PE 0207589F (P-1 LINE NO. 33)	A				$250				
WRM-EQUIPMENT/SECONDARY ITEMS PE 0401135F (P-1 LINE NO. 70)	A				$489		$1,746		$1,107
VEHICLES & SUPPORT EQUIPMENT, PE 0202834F	A				$360		$503		$574
TOTALS:					$30,104		$21,983		$25,616

Remarks:

Cost information is in thousands of dollars.

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P-1 Crosswalk AF J-Book to OSD Summary Justification Materials
Other Procurement, Air Force

Item Nomenclature	AF P-1 Number	OSD P-1 Number
Budget Activity 02: Vehicular Equipment		
Passenger Carrying Vehicles	2	2
Medium Tactical Vehicles	3	3
CAP Vehicles	5	5
Security and Tactical Vehicles	7	7
Fire Fighting/Crash Rescue Vehicles	8	8
Runway Snow Removal and Cleaning Equipment	10	10
Items Less Than $5 Million (Vehicles)	11	11
Budget Activity 03: Electronics and Telecommunications Equipment		
COMSEC Equipment	19	13
Modifications (COMSEC)	20	14
Intelligence Training Equipment	21	15
Intelligence Communications Equipment	22	16
Air Traffic Control and Landing System	23	17
National Airspace System	24	18
Theater Air Control System Improvement	25	19
Weather Observation Forecast	26	20
Strategic Command and Control	27	21
Cheyenne Mountain Complex	28	22
General Information Technology	30	24
Air Force Global Command and Control System	31	25
Mobility Command and Control	32	26
Air Force Physical Security System	33	27
Combat Training Ranges	34	28
Minimum Essential Emergency Communications Network	35	29
C3 Countermeasures	36	30
Global Combat Support System - AF Family of Systems	37	31
Theater Battle Management C2 System	38	32
Air & Space Operations Center Weapon System	39	33
Base Information Infrastructure	41	34
USCENTCOM	42	35
Space Based IR Sensor Program Space	43	36

P-1 Crosswalk AF J-Book to OSD Summary Justification Materials
Other Procurement, Air Force

Item Nomenclature	AF P-1 Number	OSD P-1 Number
NAVSTAR GPS Space	44	37
NUDET Detection System Space	45	38
Air Force Satellite Control Network Space	46	39
Spacelift Range System Space	47	40
MILSATCOM Space	48	41
Space Mods Space	49	42
Counterspace Systems	50	43
Tactical C-E Equipment	51	44
Combat Survivor Evader Locator	52	45
Radio Equipment	53	46
TV Equipment (AFRTV)	54	47
CCTV/Audiovisual Equipment	55	48
Base Communications Infrastructure	56	49
Comm Elect Mods	61	51
Budget Activity 04: Other Base Maintenance and Support Equipment		
Night Vision Goggles	64	52
Mechanized Material Handling Equipment	65	53
Base Procured Equipment	66	54
Contingency Operations	68	56
Productivity Capital Investment	69	57
Mobility Equipment	70	58
Items Less Than $5 Million (Base Support Equipment)	71	59
DARP RC135	74	61
Distributed Ground Systems	75	62
Budget Activity 05: Spares and Repair Parts		
Spares & Repair Parts	85	66