

**UNCLASSIFIED**

**DEPARTMENT OF THE AIR FORCE**



# **PROCUREMENT PROGRAM**

**FISCAL YEAR (FY) 2008/2009  
BUDGET ESTIMATES**

## **OTHER PROCUREMENT**

**FEBRUARY 2007**

**UNCLASSIFIED**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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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

In accordance with the President's Management Agenda, Budget and Performance Integration initiative, this program has been assessed using the Program Assessment Rating Tool (PART). Remarks regarding program performance and plans for performance improvement can be located at the [Expectmore.gov](http://Expectmore.gov) website.

## **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 - 11<sup>th</sup> 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 - 11<sup>th</sup> 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 \$287,000 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, \$15,421,162,000 to remain available for obligation until September 30, 2010.

DEPARTMENT OF THE AIR FORCE  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 25 JAN 2007

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT									
PASSENGER CARRYING VEHICLES									
1	ARMORED VEHICLE	A	1	.5	1	.5			U
2	PASSENGER CARRYING VEHICLES	A	227	16.5	153	14.3		19.3	U
CARGO + UTILITY VEHICLES									
3	MEDIUM TACTICAL VEHICLE	A		12.9		20.9		32.7	U
4	HIGH MOBILITY VEHICLE (MYP)	A		4.6		4.1			U
5	CAP VEHICLES	A		.8		.7		.9	U
SPECIAL PURPOSE VEHICLES									
6	HMMWV, ARMORED	A		2.2		8.4			U
7	SECURITY AND TACTICAL VEHICLES	A		33.3		11.3		38.9	U
FIRE FIGHTING EQUIPMENT									
8	FIRE FIGHTING/CRASH RESCUE VEHICLES	A		21.1		21.4		27.0	U
MATERIALS HANDLING EQUIPMENT									
9	HALVERSEN LOADER	A	25	33.9		10.4			U
BASE MAINTENANCE SUPPORT									
10	RUNWAY SNOW REMOV AND CLEANING EQU	A		21.7		30.2		25.9	U
11	ITEMS LESS THAN \$5,000,000(VEHICLES)	A		10.4		27.8		47.4	U
CANCELLED ACCOUNT ADJUSTM									
12	CANCELLED ACCOUNT ADJUSTMENTS (BPA)	A		.1					U
TOTAL VEHICULAR EQUIPMENT				158.0		149.8		192.1	

DEPARTMENT OF THE AIR FORCE  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 25 JAN 2007

## MILLIONS OF DOLLARS

LINE NO -----	ITEM NOMENCLATURE -----	IDENT CODE -----	FY 2006		FY 2007		FY 2008		S E C -
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIP -----									
COMM SECURITY EQUIPMENT(COMSEC)									
13	COMSEC EQUIPMENT	A		56.9		121.2		180.2	U
14	MODIFICATIONS (COMSEC)	A		2.4		.7		1.5	U
INTELLIGENCE PROGRAMS									
15	INTELLIGENCE TRAINING EQUIPMENT	A		4.6		5.2		3.1	U
16	INTELLIGENCE COMM EQUIPMENT	A		1.5		1.6		24.1	U
ELECTRONICS PROGRAMS									
17	AIR TRAFFIC CONTROL & LANDING SYS	A		36.1		12.2		12.8	U
18	NATIONAL AIRSPACE SYSTEM	A		59.2		53.4		50.4	U
19	THEATER AIR CONTROL SYS IMPROVEMEN	A		94.4		76.8		61.8	U
20	WEATHER OBSERVATION FORECAST	A		34.6		38.2		23.7	U
21	STRATEGIC COMMAND AND CONTROL	A		43.3		26.9		41.2	U
22	CHEYENNE MOUNTAIN COMPLEX	A		22.3		11.2		18.6	U
23	DRUG INTERDICTION SPT	A		10.0		.4		.4	U
SPECIAL COMM-ELECTRONICS PROJECTS									
24	GENERAL INFORMATION TECHNOLOGY	A		125.4		132.8		113.3	U
25	AF GLOBAL COMMAND & CONTROL SYS	A		11.4		13.8		14.3	U
26	MOBILITY COMMAND AND CONTROL	A		7.8		10.0		10.4	U
27	AIR FORCE PHYSICAL SECURITY SYSTEM	A		39.1		47.1		78.2	U
28	COMBAT TRAINING RANGES	A		58.5		58.5		33.4	U
29	MINIMUM ESSENTIAL EMERGENCY COMM N	A				3.4		10.7	U

DEPARTMENT OF THE AIR FORCE  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 25 JAN 2007

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2006		FY 2007		FY 2008		
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
30	C3 COUNTERMEASURES	A		4.5		4.6		7.4	U
31	GCSS-AF FOS	A		12.4		31.8		27.8	U
32	THEATER BATTLE MGT C2 SYSTEM	A		40.4		23.5		22.7	U
33	AIR & SPACE OPERATIONS CTR-WPN SYS	A		21.1		25.5		43.7	U
AIR FORCE COMMUNICATIONS									
34	BASE INFO INFRASTRUCTURE	A		341.8		332.5		323.3	U
35	USCENTCOM	A		31.6		32.4		113.6	U
DISA PROGRAMS									
36	SPACE BASED IR SENSOR PGM SPACE	A		3.6		4.2		4.0	U
37	NAVSTAR GPS SPACE	A		9.0		6.0		14.1	U
38	NUDET DETECTION SYS SPACE	A		9.3		13.4		16.5	U
39	AF SATELLITE CONTROL NETWORK SPACE	A		50.3		85.0		50.3	U
40	SPACELIFT RANGE SYSTEM SPACE	A		104.1		119.7		122.6	U
41	MILSATCOM SPACE	A		27.8		75.4		116.9	U
42	SPACE MODS SPACE	A		24.4		25.0		26.5	U
43	COUNTERSPACE SYSTEM	A		14.3		31.3		22.8	U
ORGANIZATION AND BASE									
44	TACTICAL C-E EQUIPMENT	A		130.6		147.8		208.9	U
45	COMBAT SURVIVOR EVADER LOCATER	A		7.1		27.1		27.2	U
46	RADIO EQUIPMENT	A		9.4		8.7		12.2	U
47	TV EQUIPMENT (AFRTV)	A		5.7		2.7		3.1	U
48	CCTV/AUDIOVISUAL EQUIPMENT	A		3.2		8.4		9.8	U
49	BASE COMM INFRASTRUCTURE	A		169.2		145.9		115.6	U

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DEPARTMENT OF THE AIR FORCE  
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 25 JAN 2007

MILLIONS OF DOLLARS									
LINE	ITEM NOMENCLATURE	IDENT	FY 2006		FY 2007		FY 2008		S
NO		CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
----	-----	----	-----	-----	-----	-----	-----	-----	---
50	ITEMS LESS THAN \$5,000,000	A		3.5		3.8			U
	MODIFICATIONS								
51	COMM ELECT MODS	A		21.0		28.2		35.5	U
	TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIP			-----		-----		-----	
				1,651.4		1,796.2		2,002.6	
	BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIP								
	-----								
	PERSONAL SAFETY AND RESCUE EQUIP								
52	NIGHT VISION GOGGLES	A		13.8		19.2		21.3	U
53	ITEMS LESS THAN \$5,000,000 (SAFETY)	A		2.1					U
	DEPOT PLANT + MATERIALS HANDLING EQ								
54	MECHANIZED MATERIAL HANDLING EQUIP	A		24.4		14.5		22.2	U
	BASE SUPPORT EQUIPMENT								
55	BASE PROCURED EQUIPMENT	A		56.1		21.8		17.4	U
56	MEDICAL/DENTAL EQUIPMENT	A		18.7		19.9			U
57	CONTINGENCY OPERATIONS	A		17.9		9.2		6.2	U
58	PRODUCTIVITY CAPITAL INVESTMENT	A		5.5		5.4		3.0	U
59	MOBILITY EQUIPMENT	A		44.8		25.9		36.9	U
60	ITEMS LESS THAN \$5,000,000 (BASE S)	A		28.7		41.0		53.9	U
	SPECIAL SUPPORT PROJECTS								
61	PRODUCTION ACTIVITIES	A							
62	DARP RC135	A		21.2		23.6		22.5	U
63	DISTRIBUTED GROUND SYSTEMS	A		251.5		199.7		197.8	U
64	SELECTED ACTIVITIES	A							

DEPARTMENT OF THE AIR FORCE  
 FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 25 JAN 2007

		MILLIONS OF DOLLARS							
LINE		IDENT	FY 2006		FY 2007		FY 2008		S
NO	ITEM NOMENCLATURE	CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
----	-----	----	-----	-----	-----	-----	-----	-----	C
65	SPECIAL UPDATE PROGRAM	A		251.7		467.6		532.2	U
66	DEFENSE SPACE RECONNAISSANCE PROG.	A		14.4		15.1		15.6	U
	TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIP			14,864.8		14,779.2		13,198.5	
BUDGET ACTIVITY 05: SPARES AND REPAIR PARTS									
-----									
SPARES AND REPAIR PARTS									
67	SPARES AND REPAIR PARTS	A		31.1		28.5		27.9	U
	TOTAL SPARES AND REPAIR PARTS			31.1		28.5		27.9	
	TOTAL OTHER PROCUREMENT, AIR FORCE			16,705.3		16,753.8		15,421.2	

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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VEHICULAR EQUIPMENT

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8	Fire Fighting/Crash Rescue Vehicles .....	26
10	Runway Snow Removal and Cleaning Equipment .....	33
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$16,549	\$14,300	\$19,254	\$18,238	\$18,738	\$17,833	\$18,181	\$18,540
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. <b>Sedans</b> 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.</li> <li>3. <b>Station Wagons</b> 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.</li> <li>4. <b>Law Enforcement Sedans</b> (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.</li> <li>5. <b>Ambulances</b> 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.</li> <li>6. <b>Buses</b> 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 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.</li> </ol>								
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 1	Page 1 of 2				



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES		
<b>Description (continued):</b>				
<p>7. Total inventory objective for Passenger Carrying Vehicles is 3478. Our procurement requirement for shortages and replacements is 2146. FY08 purchases 322 Passenger Carrying Vehicles.</p>				
<p>8. In FY06, Passenger Carrying Vehicles received \$120,000 in additional funding under P.L. 109-234, the Emergency Supplemental Appropriation Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.</p>				
<p>9. Items requested in FY08 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>				
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 2	Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMPACT SEDAN, UNITED STATES	A	6	\$108	20	\$254	93	\$1,789	11	\$216
COMPACT SEDAN, JAPAN	A					3	\$31		
COMPACT SEDAN, UNITED STATES, BIFUEL	A			1	\$14				
COMPACT SEDAN, OFFICE OF SPECIAL INVESTIGATIONS (OSI)	A	6	\$148						
MIDSIZE SEDAN, UNITED STATES	A	2	\$27	8	\$140			4	\$57
MIDSIZE SEDAN, OSI	A	4	\$93						
SUBCOMPACT SEDAN, UNITED STATES	A	1	\$35	1	\$35			8	\$291
STATION WAGON, UNITED STATES	A	6	\$114	6	\$120	15	\$332	9	\$203
STATION WAGON, JAPAN	A			3	\$44	2	\$28		
STATION WAGON, UNITED STATES, BIFUEL	A			3	\$86				
L.E. SEDAN, UNITED STATES	A	46	\$983	12	\$210	66	\$1,278	23	\$455
L.E. SEDAN, JAPAN	A	7	\$98	13	\$189	3	\$45	4	\$61
L.E. SEDAN, UNITED STATES, BIFUEL	A			3	\$85			6	\$170
AMB, 44 PAX CONV US	A	12	\$1,480	13	\$1,397	13	\$1,524	25	\$3,018
AMB, MOD 4X4	A	30	\$2,345	6	\$470	15	\$1,252	19	\$1,624

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AMB, MOD 4X4 JAPAN	A	2	\$127						
AMB, MOD 4X2 US	A	8	\$616	4	\$300	12	\$949	10	\$808
AMB, MOD 4X2 JAPAN	A			6	\$480				
BUS, 41 PAX US	A	10	\$3,355	18	\$5,873	8	\$2,718	9	\$3,122
BUS, 41 PAX JAPAN	A					3	\$1,097		
BUS, 16 PAX US	A	1	\$51	8	\$428	4	\$216	8	\$441
BUS, 16 PAX JAPAN	A					1	\$48	1	\$49
BUS, 28 PAX	A	46	\$3,474	10	\$726	38	\$3,411	25	\$2,291
BUS, 44 PAX US	A	35	\$3,494	23	\$1,760	40	\$4,151	47	\$5,353
BUS, 44 PAX US CNG	A					1	\$99		
BUS, 44 PAX JAPAN	A			3	\$230	3	\$224	1	\$80
BUS, 44 PAX MED US	A			11	\$1,342				
BUS, 23 PAX SURREY	A			2	\$120				
MIDSIZE SEDAN, BIFUEL	A					2	\$62		
<b>TOTALS:</b>		222	\$16,549	174	\$14,300	322	\$19,254	210	\$18,238

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST

**Remarks:**  
Cost information is in thousands of dollars.

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006	6	\$17,964	AFMC/WR-ALC	MIPR/C/FFP	GSA/FORD/DEARBORN, MI	Apr-06	Jun-06			
FY2007	20	\$12,700	AFMC/WR-ALC	MIPR/C/FFP	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
FY2008	93	\$19,239	AFMC/WR-ALC	MIPR/C/FFP	GSA/UNKNOWN	Apr-08	Jul-08	Yes		
FY2009	11	\$19,635	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		
COMPACT SEDAN, UNITED STATES, BIFUEL										
FY2007	1	\$14,450	AFMC/WR-ALC	MIPR/C/FFP	GSA/UNKNOWN	Apr-07	Jul-07	Yes		
COMPACT SEDAN, OFFICE OF SPECIAL INVESTIGATIONS (OSI)										
FY2006	6	\$24,689	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	Mar-07	Jul-07	Yes		
MIDSIZE SEDAN, BIFUEL										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	2	\$30,773	AFMC/WR-ALC	MIPR/FFP	GSA/ UNKNOWN	Apr-08	Jul-08	Yes		
MIDSIZE SEDAN, UNITED STATES										
FY2006	2	\$13,253	AFMC/WR-ALC	MIPR/C/FFP	GSA/FORD/DEARBORN, MI	Apr-06	Jul-06			
FY2007	8	\$17,487	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-07	Jul-07	Yes		
FY2009	4	\$14,128	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-09	Jul-09	Yes		
MIDSIZE SEDAN, OSI										
FY2006	4	\$23,306	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	Mar-07	Jul-07	Yes		
SUBCOMPACT SEDAN, UNITED STATES										
FY2006	1	\$35,124	AFMC/WR-ALC	FCA/FFP	HQ ACC/ WH LOG/ TAMPA, FL	Jul-06	Jul-06			
FY2007	1	\$35,007	AFMC/WR-ALC	FCA/FFP	HQ ACC/ UNKNOWN	Apr-07	May-07	Yes		
FY2009	8	\$36,391	AFMC/WR-ALC	FCA/FFP	HQ ACC/ UNKNOWN	Mar-09	Apr-09	Yes		
STATION WAGON, UNITED STATES										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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						
FY2006	6	\$19,078	AFMC/WR-ALC	MIPR/C/FFP	GSA/CHRYSLER/ SOUTHFIELD, MI	Apr-06	Jul-06								
FY2007	6	\$20,000	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-07	Jun-07	Yes							
FY2008	15	\$22,121	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-08	Jul-08	Yes							
FY2009	9	\$22,607	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/ UNKNOWN	Jun-07	Oct-07	Yes							
FY2008	2	\$14,109	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Apr-08	Jun-08	Yes							
STATION WAGON, UNITED STATES, BIFUEL															
FY2007	3	\$28,550	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/ UNKNOWN	Mar-07	Jun-07	Yes							
L.E. SEDAN, UNITED STATES															
FY2006	46	\$21,380	AFMC/WR-ALC	MIPR/C/FFP	GSA/ GM/ DETROIT, MI	Feb-06	May-06								
FY2007	12	\$17,500	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-07	Jun-07	Yes							
FY2008	66	\$19,365	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-08	Jun-08	Yes							
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 2</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 8</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 3 of 8</td> </tr> </table>											<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 8		Page 3 of 8
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 8		Page 3 of 8										

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	23	\$19,773	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Mar-09	Jun-09	Yes							
L.E. SEDAN, JAPAN															
FY2006	7	\$14,033	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ TOYOTA/ TOKYO, JA	Jul-06	Sep-06								
FY2007	13	\$14,550	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Jun-07	Sep-07	Yes							
FY2008	3	\$14,839	AFMC/WR-ALC	MIPR/C/FFP	NAVY/ UNKNOWN	Apr-08	Jul-08	Yes							
FY2009	4	\$15,144	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/ UNKNOWN	Apr-07	Jun-07	Yes							
FY2009	6	\$28,300	AFMC/WR-ALC	MIPR/C/FFP	GSA/ UNKNOWN	Apr-09	Jun-09	Yes							
AMB, 44 PAX CONV US															
FY2006	12	\$123,303	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Mar-06	Nov-06								
FY2007	13	\$107,450	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-07	Sep-07	Yes							
FY2008	13	\$117,244	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-08	Sep-08	Yes							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 2</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 9</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 4 of 8</td> </tr> </table>											<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 9		Page 4 of 8
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	25	\$120,715	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-09	Sep-09	Yes							
AMB, MOD 4X4															
FY2006	30	\$78,168	AFMC/WR-ALC	MIPR/IDIQ	GSA/WHEELED COACH/ WINTER PARK, FL	Mar-06	Sep-06								
FY2007	6	\$78,250	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-07	Aug-07	Yes							
FY2008	15	\$83,495	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-08	Aug-08	Yes							
FY2009	19	\$85,459	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Apr-09	Aug-09	Yes							
AMB, MOD 4X4 JAPAN															
FY2006	2	\$63,605	AFMC/WR-ALC	MIPR/FFP	NAVY/PACAF (UNKNOWN)	Mar-07	Aug-07	Yes							
AMB, MOD 4X2 US															
FY2006	8	\$77,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/WHEELED COACH/ WINTER PARK, FL	Feb-06	Jun-06								
FY2007	4	\$75,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-07	Sep-07	Yes							
FY2008	12	\$79,111	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Sep-08	Yes							
FY2009	10	\$80,778	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Sep-09	Yes							
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 2</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 10</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 5 of 8</td> </tr> </table>											<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 10		Page 5 of 8
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 10		Page 5 of 8										

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	Jul-07	Nov-07	Yes		
BUS, 41 PAX US										
FY2006	10	\$335,469	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Jul-06	Mar-07			
FY2007	18	\$326,250	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-07	Jan-08	Yes		
FY2008	8	\$339,727	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Jan-09	Yes		
FY2009	9	\$346,886	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Jan-10	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										
FY2006	1	\$51,122	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Jul-06	May-07			
FY2007	8	\$53,500	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Feb-07	Aug-07	Yes		
FY2008	4	\$53,974	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Feb-08	Aug-08	Yes		
<b>P-1 ITEM NO</b> 2			<b>PAGE NO:</b> 11			Page 6 of 8				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	8	\$55,111	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Feb-09	Aug-09	Yes							
BUS, 16 PAX JAPAN															
FY2008	1	\$48,444	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-08	Sep-08	Yes							
FY2009	1	\$49,456	AFMC/WR-ALC	MIPR/FFP	NAVY/ UNKNOWN	Mar-09	Sep-09	Yes							
BUS, 28 PAX															
FY2006	46	\$75,526	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Jul-06	Jan-07								
FY2007	10	\$72,550	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-07	Aug-07	Yes							
FY2008	38	\$89,757	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Aug-08	Yes							
FY2009	25	\$91,638	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-09	Aug-09	Yes							
BUS, 44 PAX US															
FY2006	35	\$99,828	AFMC/WR-ALC	MIPR/IDIQ	GSA/ BLUE BIRD/ FT VALLEY, GA	Jul-06	Jan-07								
FY2007	23	\$76,505	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-07	Sep-07	Yes							
FY2008	40	\$103,774	AFMC/WR-ALC	MIPR/IDIQ	GSA/ UNKNOWN	Mar-08	Sep-08	Yes							
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 2</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 12</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 7 of 8</td> </tr> </table>											<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 12		Page 7 of 8
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	47	\$113,886	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/UNKNOWN	Jul-07	Nov-07	Yes		
FY2008	3	\$74,515	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Mar-08	Sep-08	Yes		
FY2009	1	\$80,488	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/UNKNOWN	Mar-07	Jun-07	Yes		
BUS, 23 PAX SURREY										
FY2007	2	\$60,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
BUS, 44 PAX US CNG										
FY2008	1	\$99,105	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-08	Sep-08	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDIUM TACTICAL VEHICLES				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$12,883	\$20,898	\$32,737	\$23,855	\$24,646	\$24,585	\$25,066	\$25,564
<p><b>Description:</b></p> <p>1. These cargo trucks consist of a Family of Medium Tactical Vehicles (FMTVs), which have the capability to operate in austere, adverse terrain. These important tactical assets are used by Combat Communications Flights, Air Support Operations Squadrons (ASOS), Explosive Ordnance Disposal (EOD) units, and other tactical direct mission support units throughout the Air Force. The US Army uses them extensively.</p> <p>2. The Air Force uses these trucks 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.</p> <p>3. The total inventory objective for Family Medium Tactical Vehicles is 3,184. The procurement requirement for shortages and replacements is 2,140. FY08 procures 194 vehicles.</p> <p>4. Items requested in FY08 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>								
	<b>P-1 ITEM NO</b> 3		<b>PAGE NO:</b> 14		Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MEDIUM TACTICAL VEHICLES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRK, CGO, MTV, M1078A1 2.5 T	A	35	\$4,967	80	\$11,494	97	\$13,240	80	\$11,321
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T	A	44	\$6,049	38	\$5,756	75	\$11,981	50	\$8,417
TRK, TRACTOR, M1088 5 T	A			3	\$530	4	\$476	7	\$850
TRK, WRECKER, M1089A1 5 T	A	5	\$1,867	6	\$2,254	18	\$7,040	5	\$2,338
TRK, CGO, MTV, M1083A1, W/WINCH 5T	A			6	\$864			7	\$929
<b>TOTALS:</b>		84	\$12,883	133	\$20,898	194	\$32,737	149	\$23,855

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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, M1078A1 2.5 T										
FY2006(1)	35	\$141,917	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr4)	ARMY/ STEWART & STEVENSON/SEALY, TX	Mar-06	Mar-07			
FY2007	80	\$143,677	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/SEALY, TX	Aug-07	Aug-08	Yes		
FY2008	97	\$136,498	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ UNKNOWN	Mar-08	Mar-09	Yes		
FY2009	80	\$141,507	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes		
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T										
FY2006(1)	44	\$137,468	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr4)	ARMY/ STEWART & STEVENSON/SEALY, TX	Apr-06	Mar-07			
FY2007	38	\$151,477	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/SEALY, TX	Aug-07	Aug-08	Yes		
FY2008	75	\$159,742	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ UNKNOWN	Mar-08	Mar-09	Yes		
FY2009	50	\$168,340	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ UNKNOWN	Mar-09	Mar-10	Yes		
<b>P-1 ITEM NO</b> 3			<b>PAGE NO:</b> 16			Page 1 of 3				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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, TRACTOR, M1088 5 T										
FY2007	3	\$176,776	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/SEALY, TX	Aug-07	Aug-08	Yes		
FY2008	4	\$118,999	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/UNKNOWN	Mar-08	Mar-09	Yes		
FY2009	7	\$121,443	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/UNKNOWN	Mar-09	Mar-10	Yes		
TRK, WRECKER, M1089A1 5 T										
FY2006	5	\$373,464	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr4)	ARMY/ STEWART & STEVENSON/SEALY, TX	Jun-06	Mar-07			
FY2007	6	\$375,602	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/SEALY, TX	Aug-07	Aug-08	Yes		
FY2008	18	\$391,115	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/UNKNOWN	Mar-08	Mar-09	Yes		
FY2009	5	\$467,606	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/UNKNOWN	Mar-09	Mar-10	Yes		
TRK, CGO, MTV, M1083A1, W/WINCH 5T										
FY2007	6	\$143,962	AFMC/WR-ALC	MIPR/OPT/M-5 (Yr5)	ARMY/ STEWART & STEVENSON/SEALY, TX	Aug-07	Aug-08	Yes		
<b>P-1 ITEM NO</b> 3			<b>PAGE NO:</b> 17			Page 2 of 3				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2009	7	\$132,764	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/UNKNOWN	Mar-09	Mar-10	Yes		
<b>Remarks:</b> Cost information is in actual dollars.  (1) Five year contract DAAE07-03-C-S023 awarded 17 Apr 03.										
		<b>P-1 ITEM NO</b> 3			<b>PAGE NO:</b> 18					Page 3 of 3

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CAP VEHICLES				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$810	\$692	\$875	\$895	\$917	\$931	\$949	\$968
<p><b>Description:</b></p> <p>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.</p> <p>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.</p>								
	<b>P-1 ITEM NO</b> 5		<b>PAGE NO:</b> 19		Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SECURITY AND TACTICAL VEHICLES				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$33,329	\$11,276	\$38,939	\$32,519	\$33,188	\$35,699	\$23,419	\$23,882
<p><b>Description:</b></p> <p>1. This program provides funding for Tactical and Security vehicles. Beginning in FY08, 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.</p> <p>2. HMMWVs include the M1116 and M1145 Up-Armored, M1025A2 Armored, M1113, and M1097A2 unarmored 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.</p> <p>3. The Light High Mobility Trailer (M1101) is designed to be towed by a vehicle without air brake connections. This trailer has a 3/4 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.</p> <p>4. FY08 combines P-1 lines 4, 6, and 7. The USAF will begin transitioning to the Army's new M1151P1 Up-Armored HMMWV as soon as a USAF variant</p>								
	<b>P-1 ITEM NO</b> 7		<b>PAGE NO:</b> 20		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SECURITY AND TACTICAL VEHICLES		
<b>Description (continued):</b> becomes available. The total inventory objective for Security and Tactical vehicles is 5,612. The procurement requirement for shortages and replacements is 1,503. FY08 funds procure 395 vehicles and trailers.  5. In FY06, Up-Armored HMMWV vehicles received \$17.831M in additional funding under P.L. 109-234, the Emergency Supplemental Appropriation Act for Defense , the Global War on Terror, and Hurricane Recovery, 2006.  6. In FY07, Up-Armored HMMWV vehicles received \$5.65M under Title IX of the FY07 Appropriations Conference Report 109-676 dated 25 September 2006.				
	<b>P-1 ITEM NO</b> 7		<b>PAGE NO:</b> 21	Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SECURITY AND TACTICAL VEHICLES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HMMWV, UPARMORED (M1116)	A	149	\$28,837	52	\$9,971	88	\$19,010	80	\$17,448
HMMWV, UPARMORED (M1145)	A	29	\$4,491	8	\$1,305	14	\$2,626	10	\$1,887
HMMWV, ARMORED (M1025A2)	A					67	\$6,280	47	\$4,404
HMMWV, UTIL (M1097A2)	A					76	\$6,288	77	\$6,681
HMMWV, (M1113)	A					45	\$3,864	12	\$1,075
HIGH MOBILITY TRAILER, LIGHT M1101	A					105	\$871	120	\$1,023
<b>TOTALS:</b>		178	\$33,329	60	\$11,276	395	\$38,939	346	\$32,519

**Remarks:**  
Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 7		<b>PAGE NO:</b> 22		Page 1 of 1
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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, UPARMORED (M1116)(1)										
FY2006	149	\$193,540	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Feb-06	Sep-06			
FY2007	52	\$191,743	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Mar-07	May-08	Yes		
FY2008	88	\$216,023	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-08	Dec-08	Yes		
FY2009	80	\$218,097	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-09	Dec-09	Yes		
HMMWV, UPARMORED (M1145)(1)										
FY2006	29	\$154,879	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Feb-06	Sep-06			
FY2007	8	\$163,166	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Mar-07	May-08	Yes		
FY2008	14	\$187,543	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Mar-08	May-08	Yes		
FY2009	10	\$188,719	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes		
HMMWV, ARMORED (M1025A2)(1)										
		<b>P-1 ITEM NO</b> 7			<b>PAGE NO:</b> 23			Page 1 of 3		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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						
FY2008	67	\$93,732	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-08	Jan-09	Yes							
FY2009	47	\$93,704	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes							
HMMWV, UTIL (M1097A2)(1)															
FY2008	76	\$82,735	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-08	Jan-09	Yes							
FY2009	77	\$86,766	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes							
HMMWV, (M1113)(1)															
FY2008	45	\$85,873	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-08	Jan-09	Yes							
FY2009	12	\$89,621	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/ SOUTH BEND, IN	Jan-09	Jan-10	Yes							
HIGH MOBILITY TRAILER, LIGHT M1101(1)															
FY2008	105	\$8,296	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ARMY/SILVER EAGLE/PORTLAND, OR	Dec-07	Jun-08	Yes							
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 7</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 24</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 2 of 3</td> </tr> </table>											<b>P-1 ITEM NO</b> 7		<b>PAGE NO:</b> 24		Page 2 of 3
	<b>P-1 ITEM NO</b> 7		<b>PAGE NO:</b> 24		Page 2 of 3										

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2009	120	\$8,529	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/ARMY/SILVER EAGLE/PORTLAND, OR	Dec-08	Jun-09	Yes		
<p><b>Remarks:</b>                      Cost information is in actual dollars.</p> <p>(1) Basic contracts DAAE07-00-C-S019 and DAAE07-01-C-S001 awarded 10 Apr 00 and 06 Nov 00 with six options each. Basic contracts extended 1 Sep 05 to add four additional options.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$21,126	\$21,384	\$27,016	\$27,202	\$27,935	\$27,517	\$28,058	\$28,619
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. This P-1 line procures various groups of critical fire fighting and crash rescue vehicles.</li> <li>2. 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 that have 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.</li> <li>3. 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.</li> <li>4. 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.</li> <li>5. The 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.</li> <li>6. 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.</li> </ol>								
	<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 26		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES			
<b>Description (continued):</b>					
<p>7. 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.</p>					
<p>8. 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.</p>					
<p>9. 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.</p>					
<p>10. 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.</p>					
<p>11. 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.</p>					
<p>12. The total inventory objective for this P-1 line is 1,750. Procurement requirement for shortages and replacement is 1,013. FY08 purchases 59 fire fighting vehicles.</p>					
<p>13. Items requested in FY08 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>					
	<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 27		Page 2 of 2

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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**  
OPAF/VEHICULAR EQUIPMENT

**P-1 NOMENCLATURE:**  
FIRE FIGHTING/CRASH RESCUE VEHICLES

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRUCK, CRASH P-19	A	20	\$14,736	17	\$12,411	13	\$9,432	14	\$10,377
TRUCK, CRASH P-23	A			2	\$1,180	5	\$4,144	3	\$2,568
TRUCK, WATER TANKER P-26	A	8	\$2,485	5	\$1,495	7	\$2,201	9	\$2,889
TRUCK, PUMPER 4X4 P-24	A			4	\$1,666	6	\$2,636	3	\$1,355
TRUCK, PUMPER 4X2 P-22	A	5	\$2,072	4	\$1,564	2	\$850	7	\$3,035
TRUCK, FIREFIGHTING QUINT	A	1	\$557	4	\$2,237	3	\$1,746	4	\$2,375
VEHICLE, HAZARDOUS MATERIAL P-31	A	1	\$382	1	\$384	5	\$2,034	5	\$2,077
VEHICLE, HEAVY RESCUE P-28	A	2	\$894	1	\$448	1	\$421		
VEHICLE, MEDIUM RESCUE P-30	A					10	\$2,500	6	\$1,531
VEHICLE, LIGHT RESCUE P-32	A					7	\$1,051	6	\$996
<b>TOTALS:</b>		37	\$21,126	38	\$21,384	59	\$27,016	57	\$27,202

**Remarks:**

Cost information is in thousands of dollars.

**P-1 ITEM NO**  
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**PAGE NO:**  
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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															
FY2006	20	\$736,800	AFMC/WR-ALC	MIPR/IDIQ	DSCP/OSHKOSH TRK CORP/OSHKOSH, WI	Sep-06	Nov-07								
FY2007	17	\$730,045	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
FY2008	13	\$725,572	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes							
FY2009	14	\$741,182	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes							
TRUCK, CRASH P-23															
FY2007	2	\$589,962	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
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															
FY2006	8	\$310,625	AFMC/WR-ALC	MIPR/IDIQ	DSCP/ PIECE MFG/ APPLETON, WI	Oct-06	Nov-07								
FY2007	5	\$298,997	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
FY2008	7	\$314,388	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes							
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 8</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 29</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 1 of 4</td> </tr> </table>											<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 29		Page 1 of 4
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	9	\$321,013	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes		
TRUCK, PUMPER 4X4 P-24										
FY2007	4	\$416,392	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes		
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										
FY2006	5	\$414,400	AFMC/WR-ALC	MIPR/IDIQ	DSCP/ PIECE MFG/ APPLETON, WI	Oct-06	Nov-07			
FY2007	4	\$390,887	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes		
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										
FY2006	1	\$557,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Feb-07	Feb-08	Yes		
FY2007	4	\$559,355	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes		
<b>P-1 ITEM NO</b> 8			<b>PAGE NO:</b> 30			Page 2 of 4				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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						
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															
FY2006	1	\$382,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
FY2007	1	\$383,526	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
FY2008	5	\$406,851	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes							
FY2009	5	\$415,351	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes							
VEHICLE, HEAVY RESCUE P-28															
FY2006	2	\$447,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP/ PIECE MFG/ APPLETON, WI	Oct-06	Nov-07								
FY2007	1	\$448,263	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-07	Mar-08	Yes							
FY2008	1	\$421,307	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes							
VEHICLE, MEDIUM RESCUE P-30															
FY2008	10	\$250,004	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-08	Mar-09	Yes							
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 8</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 31</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 3 of 4</td> </tr> </table>											<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 31		Page 3 of 4
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES
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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	6	\$255,139	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Mar-09	Mar-10	Yes	
VEHICLE, LIGHT RESCUE P-32									
FY2008	7	\$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.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$21,732	\$30,154	\$25,919	\$23,757	\$25,984	\$26,189	\$26,703	\$27,234
<p><b>Description:</b></p> <p>1. 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.</p> <p>2. These assets are critical to the Air Force mission. They are the primary players in maintaining safe usage of runways year round. The vital functions of these vehicles prevent the closing of airfields due to debris and/or snow &amp; ice build up. The item types contained within this P-1 line are critical due to their direct support of Air Force unit deployments and engagement in contingency operations such as IRAQI FREEDOM.</p> <p>3. Our total inventory objective for Runway Snow Removal and Cleaning Equipment is 1,602. Our procurement requirement for shortages and replacements is 899. FY08 procures 102 Runway Snow Removal and Cleaning Equipment vehicles.</p> <p>4. Items requested in FY08 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>								
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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**  
OPAF/VEHICULAR EQUIPMENT

**P-1 NOMENCLATURE:**  
RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CLEANER, VAC MULTIPURPOSE	A	9	\$1,130	9	\$1,108	36	\$4,072	21	\$2,953
SNOW REMOVAL UNIT 3K TON PER HOUR	A	12	\$5,129	20	\$6,967	22	\$9,233	12	\$5,934
RAPID RUNWAY REPAIR DIRT SWEEPER	A	5	\$385	18	\$1,211	9	\$528	8	\$780
54K PLOW	A	1	\$283	4	\$1,048	2	\$458	10	\$3,073
DUMP W/SNOW PLOW	A	13	\$1,619	24	\$4,135	4	\$703	5	\$945
45K REVERSIBLE PLOW	A	18	\$6,980	22	\$7,842	14	\$5,301	12	\$5,036
SNOW BROOM AND BLOWER	A	16	\$6,205	22	\$7,842	15	\$5,626	12	\$5,036
<b>TOTALS:</b>		74	\$21,732	119	\$30,154	102	\$25,919	80	\$23,757

**Remarks:**

Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006	9	\$125,600	AFMC/WR-ALC	MIPR/IDIQ	ATLANTIC MACHINE/ SILVER SPRING, MD	Nov-06	Feb-07			
FY2007	9	\$123,103	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Nov-07	Yes		
FY2008	36	\$113,102	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Nov-08	Yes		
FY2009	21	\$140,598	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Nov-09	Yes		
SNOW REMOVAL UNIT 3K TON PER HOUR										
FY2006	12	\$427,457	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	May-08	Yes		
FY2007	20	\$348,363	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	May-08	Yes		
FY2008	22	\$419,664	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	May-09	Yes		
FY2009	12	\$494,497	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	May-10	Yes		
RAPID RUNWAY REPAIR DIRT SWEEPER										
FY2006	5	\$77,073	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Oct-07	Yes		
FY2007	18	\$67,285	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Oct-07	Yes		
<b>P-1 ITEM NO</b> 10				<b>PAGE NO:</b> 35		Page 1 of 3				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
FY2008	9	\$58,646	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Oct-08	Yes	
FY2009	8	\$97,541	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Oct-09	Yes	
54K PLOW									
FY2006	1	\$283,211	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Jun-08	Yes	
FY2007	4	\$262,041	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Jun-08	Yes	
FY2008	2	\$228,777	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Jun-09	Yes	
FY2009	10	\$307,343	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Jun-10	Yes	
DUMP W/SNOW PLOW									
FY2006	13	\$124,500	AFMC/WR-ALC	MIPR/IDIQ	GSA/ NAV-INTERNATIONAL/ CHICAGO, IL	May-06	Dec-06		
FY2007	24	\$172,299	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Dec-07	Yes	
FY2008	4	\$175,673	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Dec-09	Yes	
FY2009	5	\$188,918	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Dec-10	Yes	
45K REVERSIBLE PLOW									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006	18	\$387,796	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Jun-08	Yes		
FY2007	22	\$356,463	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Jun-08	Yes		
FY2008	14	\$378,639	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Jun-09	Yes		
FY2009	12	\$419,672	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Jun-10	Yes		
SNOW BROOM AND BLOWER										
FY2006	16	\$387,796	AFMC/WR-ALC	MIPR/IDIQ	DLA/OSKOSH/OSKOSH, WI	Aug-06	Sep-07			
FY2007	22	\$356,463	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-07	Jun-08	Yes		
FY2008	15	\$375,048	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-08	Jun-09	Yes		
FY2009	12	\$419,672	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	May-09	Jun-10	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
			<b>P-1 ITEM NO</b> 10				<b>PAGE NO:</b> 37	Page 3 of 3		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (VEHICLES)
--	--

	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$10,403	\$27,777	\$47,351	\$42,196	\$51,964	\$52,574	\$43,446	\$44,057

**Description:**

1. 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.
2. Beginning in FY08, Truck Mounted Deicers, Extended Reach Deicers, High Reach Maintenance Platforms, and Armored Sedans have been transferred to this P-1 line.
3. Our total inventory objective for Items Less Than \$5M is 1453. Our current procurement requirement for shortages and replacements is 762. FY08 procures 127 vehicles.
4. Items requested in FY08 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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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**  
OPAF/VEHICULAR EQUIPMENT

**P-1 NOMENCLATURE:**  
ITEMS LESS THAN \$5 MILLION (VEHICLES)

PROCUREMENT ITEMS	NSN	FY2008		FY2009	
		QTY.	COST	QTY.	COST
TRUCK, LIQUID NITROGEN, C5A/B	2320000999346	14	\$3,675	13	\$3,479
HI REACH 100 FT	2320004869951YW	4	\$2,131	5	\$2,718
50K ALL TERRAIN CONTAINER HANDLER	3930013073658	7	\$4,000	5	\$3,298
DOZER, T9	2410008165091	8	\$2,472	6	\$1,834
TRUCK, DUMP 22 TON	3805009310616	5	\$1,542	4	\$1,536
CRANE, 35T CRASH RECOVERY	3810010798358	5	\$1,881	4	\$1,532
17T CRANE	3810005544103	3	\$1,303	2	\$887
45T CRANE	3810002729031	5	\$2,201	2	\$899
CENTRAL CONCRETE MIX PLANT	3895010632722	5	\$1,860	2	\$760
SCRAPER, MOTORIZED 18 CUBIC YARD	3805002349778	2	\$656	3	\$1,004
CRUSHER-SCREEN 150TPH	3820000601841	6	\$3,540	2	\$1,201
SHEEPS FOOT COMPACTOR	3805013597626	2	\$636	3	\$975
TRUCK, TRACTOR TOW U-30	1740013679485YW	3	\$789	2	\$627

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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**  
OPAF/VEHICULAR EQUIPMENT

**P-1 NOMENCLATURE:**  
ITEMS LESS THAN \$5 MILLION (VEHICLES)

PROCUREMENT ITEMS	NSN	FY2008		FY2009	
		QTY.	COST	QTY.	COST
HEAVY ARMORED SEDAN	2310011350997	2	\$574	1	\$293
HIREACH MAINTENANCE PLATFORM	2320012490097YW	3	\$1,598	4	\$2,175
TRUCK MOUNTED DEICER	1730005556205YW	18	\$5,592	18	\$5,720
EXTENDED REACH DEICER	1730014955449YW	4	\$2,427	3	\$1,853
EXPLOSIVE ORDNANCE DISPOSAL (EOD) VEHICLE	2320015009249	10	\$2,949	5	\$1,502
EXCAVATOR, DIESEL ENGINE DRIVEN PT	3805011067176	2	\$502	4	\$1,025
CRANE, CRASH 50T	3810010896470	5	\$4,304	5	\$4,392
ROCK DRILL, CRAWLER MOUNTED	3820000509964	1	\$453	3	\$1,385
CRANE, CRAWLER 40T	3810006205238	2	\$898	2	\$917
TRUCK, FORKLIFT 44K CONTAINER HANDLER	3930014662860	2	\$652	3	\$1,007
XM1070 TRUCK TRACTOR	2320013189902	1	\$453		
M105 TACTICAL TRAILER	2330005416466	8	\$263	16	\$1,179
TOTALS:			\$47,351		\$42,196

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)</b>				<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (VEHICLES)			
<b>PROCUREMENT ITEMS</b>	<b>NSN</b>	<b>FY2008</b>		<b>FY2009</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
<b>Remarks:</b> Cost information is in thousands of dollars.					
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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT
--	--

	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$56,883	\$121,151	\$180,186	\$223,056	\$287,476	\$349,653	\$333,687	\$339,705

**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

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> the space and ground environment. Space COMSEC Products are grouped in the following primary product families with associated logistics support:  (1) Mission Data: FY08 funding provides for the Mission Data products family used to secure transmissions for large volumes of satellite sensor data to the ground station for processing. Specifically, Mission Data products are eight-channel downlink encryption 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 Gigabytes 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): FY08 funding provides equipment for the 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. The family includes embedded and complete stand-alone COMSEC products. CMD/TLM products cost from \$10,000 for an embedded chip to \$160,000 per unit for stand-alone COMSEC units. The high cost can be attributed to the specialized government requirements and low-rate production for satellite systems.  (3) CMD/TLM Logistics: No FY08 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 HAIPE devices.  (1) Key Generators: FY08 funding supports Key Generator requirements. These products allow the transmission signal of critical emergency action message traffic to appear like normal background noise. The Key Generators include equipment which is the source of pseudo-random key bits used to provide decryption and de-bandspreading of Very Low Frequency/Low Frequency (VLF/LF) communication links. They protect all classifications of digital teletypewriter and data traffic and may feature synchronous and asynchronous ciphertext traffic.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b>  <p>(2) Secure Telephones: FY08 funds procure Secure Voice/Data Equipment in the Secure Communications Interoperability Protocol (SCIP) Family of Products 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).</p> <p>(3) Software System Upgrades: No FY08 funding requested.</p> <p>(4) COMSEC Acquisition Reform (CAR): FY08 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.</p> <p>(5) Support Equipment: FY08 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.</p> <p>(6) Secure Communications Voice/Data: FY08 funds secure communications equipment to provide security for narrowband (slow transmission rates) and wideband (fast transmission rates) communications over AM/FM, VHF, UHF, half-duplex push-to-talk combat net radios, wire line systems and/or satellite systems.</p> <p>(7) Network Encryption Systems: FY08 funding provides equipment to ensure confidentiality, data integrity and end-to-end authentication to protect data of all classification levels traversing Internet Protocol (IP) (ensures data can cross different networks to reach a final destination) tactical, strategic and/or Asynchronous Transfer Mode (ATM, a standard AF method of transferring data from one point to another) networks. FY08 funding also provides Link Encryption Family (LEF) multi-purpose encryption devices. The LEF's primary mission is to protect classified and sensitive digital data in a multitude of network environments: point-to-point, netted, broadcast, or high-speed trunk. A migration to newer devices is required for multiple legacy crypto devices and will procure new commercially-developed devices that meet NSA certification.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b>					
<p>(8) Embedded Encryption Devices: FY08 funding provides embedded COMSEC modules developed for encrypting and decrypting serial Pulse Code Modulator (a technique in which an analog signal, such as a voice, is converted into a digital signal) data for airborne communications systems.</p>					
<p>(9) Telemetry Encryption/Decryption Devices: FY08 funds provide secure communications for weapon systems, aircraft telemetry, and data link encryption applications at test ranges.</p>					
<p>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 impact operations such as Identification Friend Foe (IFF), Nuclear Command and Control (NC2), MILSTAR, satellite control, and other missions requiring secure information transfer. The FY08 increase in Cryptographic Modernization procures production of NC2, IFF and KEESEE that have been under previous years development to meet NSA mandates.</p>					
<p>(1) Nuclear Command and Control (NC2) Crypto: Previously titled "NC2: Minuteman III." FY08 funds procure COMSEC equipment for the MINUTEMAN III (MM III) mission network and the Minimum Emergency Essential Communications Network (MEECN). For MM III (KS-60), FY08 funding procures COMSEC end-items resulting from completed research and development, and begins a full-scale effort to procure these essential assets. The MM III network provides secure communications between the MM III Launch Control Center (LCC) and Launch Facility (LF) which includes LF status, targeting data, launch-enable and launch-authorization commands. For the MEECN (KG-3X)/Fixed Submarine Broadcast System (FSBS) mission, FY08 funds modernization required for multiple cryptographic devices that operate in the clock start mode (complete synchronization of system clocks). These devices are integrated into the following platforms: E-4B, E-6B, B-52H, Minuteman Launch Control Centers (LCCs), submarines, submarine tenders, Navy shore broadcast stations, and all associated labs and trainers. KG-3X equipment procured will be employed in various airborne/ground</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> equipment for processing Emergency Action Messages (EAMs), as well as tactical applications (i.e. non-ballistic missile, nuclear powered submarines). The KS-60 and the KG-3X 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): FY08 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: FY08 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. The CM Space Crypto program transforms legacy Space COMSEC products into an infrastructure that will support DoD network centric operations.  (4) KEESEE-Based Crypto: Previously titled "KEESEE." FY08 funds production of several projects in a variety of crypto devices, all using an embedded KEESEE algorithm: Combat Key Generator (KOK-13), Secure Tactical Comm & C2 Mod, and Secure Data Link Mod. FY08 funds procure KOK-13 modernizations to extend life of current equipment and funds the procurement of the KOK-13 replacement, Combat Key Generator (CKG). 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. FY08 funds procure Secure Tactical Comm and C2 Modernization equipment implemented in radios using embedded modules (or crypto engines) that are required to provide secure radio communications. These crypto engines require replacement or modernization before Joint Tactical Radio System replacement is available. In addition, as the AF moves to a net-centric environment, Airborne HAIPE and other network encryption devices are required for secure radio communication. FY08 funds also procure Secure Data Link Crypto equipment for Telemetry Encryption Modernization and Joint Tactical Information Distribution System (JTIDS), satisfying the warfighter's requirements for size, low cost, and low power consumption while providing protection from exploitation. These funds will modernize JTIDS terminals on multiple weapons systems, including Airborne Warning and Control System (AWACS).  (5) Algorithm/Key Modernized Crypto: FY08 funds procure last-mile crypto for next generation fill devices (NGFD), legacy end cryptographic unit (ECU) adaptor units, and F-22 multi-function crypto devices. This program is the first step to ensure a robust and AF enterprise- compliant					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> capability for future network centric warfighter support. Its goal is to realize efficiencies and spontaneously provide the right COMSEC key in electronic form across multiple AF missions: command and control, secure communications, classified networks, navigation, Identification Friend or Foe (IFF), targeting, and weapons system support. This effort purchases equipment that will enable ECUs capable of wireless key fill and reduces the need for the manual ordering, transfer, and filling of cryptographic key. FY08 funds procure a component of the encryption/decryption COMSEC equipment used with the F-22 weapon system.  (6) Transformational Crypto: No FY08 funding requested.  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 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 have been grouped together as they provide the capability with the ultimate goal of transforming the capability to support net-centric operations under KMI. The FY08 increase in AFEKMS-KMI is due to increased fielding of critical key-delivery equipment to replace obsolete keying equipment.  (1) Technical Updates: FY08 funding procures hardware and software products necessary to update key management workstations and maintain an audit trail for COMSEC materials.  (2) Tier 2 LAN/Net Key Management (Tier 2 LAN/NKM): FY08 funding provides server equipment, software applications, and user workstations for upgrade of the largest AF COMSEC accounts. Tier 2 LAN enables multiple COMSEC managers to access and perform functions within a single COMSEC account improving efficiency of key management operations. NKM provides a Principal Distribution Center (PDC) server capability enabling crypto key and status information to be given to field users so they can load or update crypto key into crypto devices.  (3) KOV-21 Cards: FY08 funding procures KOV-21 cards, which are the crypto engine for the Simple Key Loader (SKL).					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> <p>(4) Simple Key Loader (SKL) (with and without KOV-21 Cards): FY08 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), KYK-13, KOI-18 and KYX-15/15A. Disruption of the SKL delivery schedule could degrade and/or disrupt secure communications in the battlefield.</p> <p>(5) Simple Key Loader (SKL) with KOV-21 Cards: No FY08 funding requested.</p> <p>(6) Simple Key Loader (SKL) without KOV-21 Cards: No FY08 funding requested.</p> <p>(7) Program Support: FY08 funds program support activities for device production. Permits the System Program Office (SPO) to execute funding for technical interchange meetings, to perform testing events (required for developing and fielding both hardware and software products), and to maintain configuration control of fielded products.</p> <p>(8) Protect Channel: FY08 funding procures approved network protection encryption devices. These devices provide Air Force users with additional connectivity medium for faster download of COMSEC key material, and increases available bandwidth.</p> <p>(9) Last Mile Client: No FY08 funding requested.</p> <p>(10) Client/Cryptographic Workstations: No FY08 funding requested.</p> <p>e. <b>COMPUTER NETWORK SUPPORT:</b> 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), enables information superiority through analysis, innovation, integration and training. This program contains the AFIOC programs and initiatives to protect AF computers, whether they are stand-alone, networked, telephone switches or embedded in weapon systems, and provide threat prediction for AF systems.</p> <p>(1) Computer Security Assistance Program (CSAP) Countermeasures: The Countermeasures Engineering Team (CMET) provides</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> technical support for CSAP. CMET 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. FY08 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, mostly on an annual basis. CSAP supports 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. CSAP systems ensure the security of AF networks by providing the capability 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 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. FY08 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, and Evolutionary PKI End User Equipment.  (1) On-Line Certificate Status Protocol (OCSP): FY08 funds procure servers and repeaters that enable end users to determine if digital identities and signatures associated with web sites, e-mail and computer applications were issued by a valid DoD source and are rescinded or revoked. This capability provides the best means for end users to validate the authenticity of information transiting the DoD networks and aid in the prevention of unauthorized access.  (2) Deployable/Tactical PKI: FY08 funds procure 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. FY08 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.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> <p>(3) SIPRNET PKI: FY08 funding procures servers, repeaters, workstations and associated software needed to establish a parallel PKI on the SIPRNET. FY08 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.”</p> <p>(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, FY08 funds will procure opaque sleeves for contactless CAC cards to scramble potential intrusion attempts or attacks on contactless cards.</p> <p>In FY06, COMSEC EQUIPMENT received \$438,000 in additional funding under P.L. 109-234, the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT						
PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
COMSEC EQUIPMENT										
SPACE COMSEC			{\$15,706,000}		{\$27,110,000}		{\$16,400,000}		{\$16,696,000}	
MISSION DATA	A		\$6,000,000		\$17,200,000		\$10,000,000		\$8,000,000	
CMD/TLM	A		\$9,118,144		\$9,032,808		\$6,400,000		\$8,696,000	
CMD/TLM LOGISTICS	A		\$587,856		\$877,192					
AIR & GROUND COMSEC			{\$23,731,000}		{\$17,992,000}		{\$33,817,000}		{\$30,443,000}	
KEY GENERATORS	A				\$350,000		\$415,385			
SECURE TELEPHONES	A		\$999,956		\$909,675		\$1,018,399		\$1,460,650	
SOFTWARE SYSTEM UPGRADE	A				\$200,000					
CAR	A				\$500,000		\$530,000		\$500,000	
SUPPORT EQUIPMENT	A		\$130,327		\$150,000		\$175,000		\$200,000	
SECURE COMMUNICATIONS VOICE/DATA	A				\$400,000		\$454,286		\$468,700	
NETWORK ENCRYPTION SYSTEMS	A		\$21,873,443		\$14,777,325		\$30,457,050		\$26,752,900	
EMBEDDED ENCRYPTION DEVICES	A		\$115,616		\$255,000		\$253,880		\$220,000	
TELEMETRY ENCRYPTION/DECRYPTION DEVICES	A		\$611,658		\$450,000		\$513,000		\$840,750	
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CRYPTOGRAPHIC MODERNIZATION					{ \$56,994,000 }		{ \$115,234,000 }		{ \$157,983,000 }
NUCLEAR C2 (NC2) CRYPTO	A				\$56,994,000		\$61,306,000		\$24,948,000
ID FRIEND/FOE (IFF)	A						\$9,150,000		\$35,018,000
SPACE CRYPTO	A						\$19,360,000		\$29,662,000
KEESEE-BASED CRYPTO	A						\$25,118,000		\$61,865,000
ALGORITHM/KEY MODERNIZED CRYPTO	A						\$300,000		\$6,390,000
TRANSFORMATIONAL CRYPTO	A								\$100,000
AFEKMS-KMI			{ \$15,844,000 }		{ \$12,270,000 }		{ \$11,149,000 }		{ \$12,606,000 }
TECH UPDATES	A		\$2,701,421		\$4,435,850		\$1,035,192		
TIER 2 LAN/NKM	A		\$300,214				\$310,000		\$345,000
KOV-21 CARDS	A		\$3,380,355				\$2,377,500		\$2,018,500
SIMPLE KEY LOADER (SKL)	A						\$6,344,370		\$5,704,281
SIMPLE KEY LOADER (SKL) W/KOV-21 CARDS	A		\$8,433,468		\$7,513,000				
SIMPLE KEY LOADER (SKL) W/O KOV-21 CARDS	A		\$626,392						
PROGRAM SUPPORT (PMA)	A		\$65,000		\$50,000		\$41,938		\$33,529

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PROTECT CHANNEL	A		\$337,150		\$271,150		\$1,040,000		\$1,000,000
LAST MILE EQUIPMENT	A								\$2,004,690
CLIENT/CRYPTOGRAPHIC WORKSTATIONS	A								\$1,500,000
COMPUTER NETWORK SUPPORT			{\$1,602,000}		{\$1,838,000}		{\$2,090,000}		{\$2,107,000}
CSAP COUNTERMEASURES	A		\$1,602,000		\$1,838,000		\$2,090,000		\$2,107,000
PUBLIC KEY INFRASTRUCTURE (PKI)					{\$4,947,000}		{\$1,496,000}		{\$3,221,000}
OCSP	A				\$1,748,001		\$118,134		
DEPLOYABLE/TACTICAL PKI	A				\$88,030		\$486,437		\$502,004
SIPRNET PKI	A				\$3,110,969		\$422,945		\$393,700
EVOLUTIONARY PKI END USER EQUIPMENT	A						\$468,484		\$2,325,296
<b>TOTALS:</b>			\$56,883,000		\$121,151,000		\$180,186,000		\$223,056,000

**Remarks:**  
Cost information is in actual dollars.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS (COMSEC)				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$2,367	\$689	\$1,526	\$1,567	\$1,606	\$1,632	\$1,663	\$1,697
<p><b>Description:</b></p> <p>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:</p> <ol style="list-style-type: none"> <li>1. NETWORK ENCRYPTION SYSTEM (Air and Ground): No FY08 funding requested.</li> <li>2. SPACE COMSEC: FY08 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 FY08.</li> </ol>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MODIFICATIONS (COMSEC)
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MODIFICATIONS (COMSEC)			{2,367}		{689}		{1,526}		{1,567}
NETWORK ENCRYPTION SYSTEMS	A				\$203				
SPACE COMSEC	A		\$2,367		\$486		\$1,526		\$1,567
<b>TOTALS:</b>			\$2,367		\$689		\$1,526		\$1,567

**Remarks:**  
Cost information is in thousands of dollars.

	P-1 ITEM NO 14		PAGE NO: 14		Page 1 of 1
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE TRAINING EQUIPMENT				
	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$4,579	\$5,209	\$3,057	\$2,689	\$4,326	\$2,718	\$2,784	\$2,855
<p><b>Description:</b></p> <p>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, 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 new generation intelligence systems with an emphasis on computer-based training systems. 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.</p> <p>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. FY08 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. FY08 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.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> INTELLIGENCE TRAINING EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GITA UPGRADE	A		\$4,579		\$5,209		\$3,057		\$2,689
<b>TOTALS:</b>			\$4,579		\$5,209		\$3,057		\$2,689

**Remarks:**  
Cost information is in thousands of dollars.

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1)			AFMC/ESC	OPT/FFP	GENERALDYNAMICS/ WARNER ROBINS, GA	Jul-06	Aug-06			
FY2007(1)			AFMC/ESC	OPT/FFP	GENERALDYNAMICS/ WARNER ROBINS, GA	Jul-07	Aug-07	Yes		
FY2008(1)			AFMC/ESC	OPT/FFP	GENERALDYNAMICS/ WARNER ROBINS, GA	Jul-08	Aug-08	Yes		
FY2009(1)			AFMC/ESC	OPT/FFP	GENERALDYNAMICS/ WARNER ROBINS, GA	Jul-09	Aug-09	Yes		
<b>Remarks:</b>  (1) Jul 03 basic contract award with four 1-year options and two 3-year options; contract F09603-03-D0095.										
			<b>P-1 ITEM NO</b> 15				<b>PAGE NO:</b> 17	Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$1,503	\$1,568	\$24,139	\$21,941	\$23,604	\$29,875	\$26,344	\$9,317
<p><b>Description:</b></p> <p>Intelligence Communications Equipment efforts procure various types of equipment to disseminate intelligence, surveillance and reconnaissance information to warfighters and decision makers across the full range of Air Force mission areas.</p> <p>1. <b>SPACE INNOVATION AND DEVELOPMENT CENTER (SIDC):</b> Formerly called the Space Warfare Center (SWC), the SIDC located at Schriever Air Force Base, CO, develops, evaluates and tests space application and utility concepts, new technologies, and tactics. 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.</p> <p style="padding-left: 40px;">a. <b>Distributed Communications Architecture:</b> 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. FY08 funding upgrades and replaces existing equipment at the SIDC node while incorporating new technology into the system, including computer servers and security features.</p> <p style="padding-left: 40px;">b. <b>Space Analysis Center:</b> 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. FY08 funding procures computing equipment supporting analysis capabilities.</p> <p>2. <b>EAGLE VISION:</b> 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 System (DAS) and Data Integration System (DIS). FY08 funds support procurement of Imagery Ingest Capability Upgrades as well as Eagle Vision DAS and DIS upgrades to support communications that provide</p>								
	<b>P-1 ITEM NO</b> 16		<b>PAGE NO:</b> 18	Page 1 of 2				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT			
<b>Description (continued):</b> improved processing capability, additional satellite capabilities, and baseline upgrades. Prior year funding through various Congressional Adds was previously identified in P-1 Line 24, 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. FY08 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: The Air Force F-22 program provides our military with a state of the art advanced fighter. In order to support fielding and sustainment of this weapon system the F-22 program will procure communications and encryption devices to support beddown at the second and third operational locations. Existing bases lack sufficient communications infrastructure and some existing equipment is incompatible with new F-22 related equipment. FY08 funds procure encryption devices and supporting communications equipment for beddown bases.					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{ \$1,503 }			{ \$1,568 }			{ \$1,349 }			{ \$1,380 }
DISTRIBUTED COMMUNICATIONS ARCHITECTURE	A			\$982			\$1,029			\$897			\$918
SPACE ANALYSIS CENTER	A			\$521			\$539			\$452			\$462
EAGLE VISION	A									\$6,853			\$6,974
AFTACTICAL TERMINALS	A									\$13,407			\$13,587
F-22 SQUADRON	A									\$2,530			
<b>TOTALS:</b>				\$1,503			\$1,568			\$24,139			\$21,941

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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									
FY2006(1-2)			HQ AFSPC	DO/FP	RSIS/COLORADO SPRINGS, CO	Apr-06	Jul-06		
FY2007(1-2)			HQ AFSPC	DO/FP	RSIS/COLORADO SPRINGS, CO	Mar-07	Jun-07	Yes	
FY2008(1)			HQ AFSPC	DO/FP	UNKNOWN	Mar-08	Jun-08	Yes	
FY2009(1)			HQ AFSPC	DO/FP	UNKNOWN	Mar-09	Jun-09	Yes	
SPACE ANALYSIS CENTER									
FY2006(1,3)			HQ AFSPC	OPT/FP	ASI/COLORADO SPRINGS, CO	Apr-06	Jul-06		
FY2007(1)			HQ AFSPC	OPT/FP	ASI/COLORADO SPRINGS, CO	Mar-07	Jun-07	Yes	
FY2008(1)			HQ AFSPC	C/FP	UNKNOWN	Mar-08	Jun-08	Yes	
FY2009(1)			HQ AFSPC	OPT/FP	UNKNOWN	Mar-09	Jun-09	Yes	
EAGLE VISION									
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(4)			AFMC/ESC	OPT/FFP	MULTIPLE	May-08	Sep-08	Yes		
FY2009(4)			AFMC/ESC	OPT/FFP	MULTIPLE	May-09	Sep-09	Yes		
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-10	Yes		
F-22 SQUADRON										
FY2008(1,6)			AFMC/ASC	OTH/FFP	UNKNOWN	Jan-08	Jul-08	Yes		
<b>Remarks:</b>										
<p>(1) Quantities and unit costs vary because different types/configurations of equipment being procured.</p> <p>(2) One-year basic contract with seven option years was awarded in December 2001.</p> <p>(3) One-year basic contract with two option years was awarded in April 2005.</p> <p>(4) Prior existing contracts for Eagle Vision with EADS, France and General Dynamics, MI. Base year 2006 with three option years</p> <p>(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.</p> <p>(6) Equipment will be procured through a variety of contracts at basing locations.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL & LANDING SYSTEM
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$36,073	\$12,210	\$12,821	\$25,354	\$17,204	\$598	\$24,465	\$8,693

**Description:**  
 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. Beginning in FY08, a key element of ATC OPS will be the Air Force ATCALs Transformation Initiative, which combines 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. FY08 ATCALs Transformation Initiatives include items (c) and (e) below.
  - a. EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM: No FY08 funding requested.
  - b. VHF OMNI RANGE AND TACTICAL NAVIGATION (VORTAC) REPLACEMENT PROGRAM: No FY08 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

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL & LANDING SYSTEM			
<b>Description (continued):</b> 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. FY08 funding will procure 50 radios.  d. HURRICANE KATRINA AIR TRAFFIC CONTROL EQUIPMENT REPLACEMENT: No FY08 funding requested.  e. 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. FY08 funds will procure four systems.  2. MOBILE APPROACH CONTROL SYSTEM (MACS): US military forces are required to be highly mobile and capable of rapid response on a global basis across the full spectrum of conflict from Smaller-Scale Contingencies to Major Regional Conflicts. MACS provides the next generation mobile air traffic control services, day and night and in all weather conditions, to military and civil aircraft. The system will be tailored to meet theater commander requirements and will operate within FAA and International Civil Aviation Organization (ICAO) performance parameters.  a. MACS Prime Mission Equipment: FY08 funds procure the required support equipment for the first five MACS systems (there are five test/LRIP MACS units currently available in various configurations) which were developed as part of the initial research and development effort.  b. MACS READINESS SUPPORT PACKAGES: To support deployed operations, each MACS is supported by a Readiness Support Package (RSP). These packages consist of a transportable set of War Reserve Material spares, repair parts, and related maintenance supplies required to support planned wartime or contingency operations of a weapon or support system for a specified period of time pending resupply. RSPs must be on hand at the time a conflict begins. When added to primary operating stocks and mobility resources, RSPs must be capable of sustaining combat consumption rates until resupply pipelines become operative. FY08 funding continues procurement of RSPs for the first five systems.  3. AUTOMATIC ASSET FOLLOWING SYSTEM PILOT PROJECT: No FY08 funding requested.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL & LANDING SYSTEM		
<b>Description (continued):</b> In FY07 ATCALs received a \$6.0M Congressional add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).				
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL & LANDING SYSTEM
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{\$9,697}			{\$2,561}			{\$3,816}			{\$8,929}
EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM	A			\$3,365									
VHF OMNI RANGE AND TACTICAL AIR NAVIGATION (VORTAC) REPLACEMENT	A			\$1,535			\$1,568						
AIR TRAFFIC CONTROL RADIO REPLACEMENT	A						\$993			\$1,032			\$1,113
HURRICANE KATRINA AIR TRAFFIC CONTROL EQUIPMENT REPLACEMENT	A			\$4,797									
MOBILE TACTICAL AIR NAVIGATION (TACAN)	A									\$2,784			\$7,816
MOBILE APPROACH CONTROL SYSTEM (MACS)				{\$25,376}			{\$9,649}			{\$9,005}			{\$16,425}
MACS (PRIME MISSION EQUIPMENT)	A			\$25,376			\$5,982			\$5,000			\$16,425
MACS READINESS SUPPORT PACKAGES	A						\$3,667			\$4,005			
AUTOMATIC ASSET FOLLOWING SYSTEM				{\$1,000}									
AUTOMATIC ASSET FOLLOWING SYSTEM PILOT PROJECT	A			\$1,000									
<b>TOTALS:</b>				\$36,073			\$12,210			\$12,821			\$25,354

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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									
EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM									
FY2006(1-2)			AFMC/ESC	OPT/FFP	RAYTHEONCORP/ MARLBORO, MA	Apr-06	Jan-07		
VHF OMNI RANGE AND TACTICAL AIR NAVIGATION (VORTAC) REPLACEMENT									
FY2006(1,3)			AFMC/OC-ALC	C/FFP W/OPT	SAIC/ SAN DIEGO, CA	Feb-06	Apr-06		
FY2007(1,3)			AFMC/OC-ALC	OPT/FFP	SAIC/ SAN DIEGO, CA	Jan-07	Apr-07		
AIR TRAFFIC CONTROL RADIO REPLACEMENT									
FY2007(1)			AFMC/ASC	C/FFP W/OPT	SAIC/ SAN DIEGO, CA	Jan-07	Jan-08		
FY2008(1)			AFMC/ASC	OPT/FFP	SAIC/ SAN DIEGO, CA	Jan-08	Jan-09	Yes	
FY2009(1)			AFMC/ASC	OPT/FFP	SAIC/ SAN DIEGO, CA	Jan-09	Jan-10	Yes	
HURRICANE KATRINA AIR TRAFFIC CONTROL EQUIPMENT REPLACEMENT									
		<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 27			Page 1 of 3	

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006			AFMC/ASC	C/FFP	UNKNOWN	Mar-07	Mar-08	Yes		
MOBILE TACTICAL AIR NAVIGATION (TACAN)										
FY2008			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Feb-08	Feb-09	Yes		
FY2009			AFMC/ESC	OPT/FFP	UNKNOWN	Jan-09	Jan-10	Yes		
MOBILE APPROACH CONTROL SYSTEM (MACS)										
MACS (PRIME MISSION EQUIPMENT)										
FY2006(1,4)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Aug-07	Aug-08	Yes		
FY2007(1,4)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Aug-07	Aug-08	Yes		
FY2008(1,4)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Apr-08	Apr-09	Yes		
FY2009(1,4)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Apr-09	Apr-10	Yes		
MACS READINESS SUPPORT PACKAGES										
			<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 28				Page 2 of 3

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(1,5)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Jun-08	Sep-09	Yes		
FY2008(1,5)			AFMC/ESC	OPT/FFP	ITT GILFILLIAN/VAN NUYS, CA	Jun-08	Sep-09	Yes		
AUTOMATIC ASSET FOLLOWING SYSTEM										
AUTOMATIC ASSET FOLLOWING SYSTEM PILOT PROJECT										
FY2006			AFMC/ESC	C/FFP	OUTERLINK/LOWELL, MA	Sep-06	Jul-07			
<b>Remarks:</b>										
<p>(1) Unit costs vary because of different types/configurations of equipment being procured.</p> <p>(2) Option to prior year Raytheon Corp, Marlboro, MA. Aug 96 basic contract award (10 option years).</p> <p>(3) Contract was awarded in Feb 06 with one option year</p> <p>(4) Contract with ITT Gilfillian, Van Nuys, CA. for the Airport Surveillance Radar (ASR) part of system was awarded in FY00; contract for Precision Approach Radar (PAR) part of system was awarded FY02. Neither contract has a specific period of performance. Contracts provide for individual line items to be exercised to perform refurbishment and refit of test and pre-production systems.</p> <p>(5) As of December 2006, acquisition strategy for MACS Readiness Support Package is still being developed by the program office and is subject to the results of the current development and testing effort. Contract will be an option modification to the basic MACS contract awarded to ITT Gilfillian.</p>										
			<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 29	Page 3 of 3			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$59,230	\$53,421	\$50,429	\$53,505	\$55,021	\$55,526	\$55,559	\$55,331
<p><b>Description:</b></p> <p>The National Airspace System (NAS) program in full rate production 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.</p> <p>The Air Force (AF) is the lead service for the Joint NAS program. NAS modernizes 92 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 92 DoD sites, 45 constitute AF sites requiring AF funding.</p> <p>1. <b>DOD ADVANCED AUTOMATION SYSTEM (DAAS):</b> 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. FY08 funds procure and install two DAAS systems.</p> <p>2. <b>DIGITAL AIRPORT SURVEILLANCE RADAR (DASR):</b> 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM		
<b>Description (continued):</b> generation of analog ATC surveillance radar. FY08 funds procure and install four DASRs. 3. AIRFIELD AUTOMATION SYSTEM (AFAS): No FY08 funds are requested. 4. WHITEMAN AFB DASR/DAAS: No FY08 funds are requested.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{\$9,284}			{\$12,376}			{\$9,683}			{\$13,142}	
DAAS	A			\$9,284			\$12,376			\$9,683			\$13,142	
DIGITAL AIRPORT SURVEILLANCE RADAR				{\$44,322}			{\$38,735}			{\$40,746}			{\$40,363}	
DASR PRIME MISSION EQUIPMENT	A			\$20,692			\$15,980			\$18,870			\$19,278	
PROGRAM SUPPORT (1)				\$8,821			\$8,121			\$6,270			\$5,063	
SITE ACTIVATION (1)				\$14,809			\$14,634			\$15,607			\$16,023	
AIRFIELD AUTOMATION SYSTEM (AFAS)				{\$2,124}			{\$2,310}							
AFAS	A			\$2,124			\$2,310							
STRATCOM DASR/DAAS				{\$3,500}										
WHITEMAN AFB DASR/DAAS	A			\$3,500										
<b>TOTALS:</b>				\$59,230			\$53,421			\$50,429			\$53,505	
<b>Remarks:</b>														
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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) All program support and site activation costs are included in the DASR line due to the fact that NAS equipment is installed as a system and the DASR schedule drives the deployment of that system.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-2)			AFMC/ESC	OPT/FFP	RAYTHEON CORP./ MARLBORO, MA	Mar-06	Jan-07			
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	Jan-08	Jan-09	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										
FY2006(1,4)			AFMC/ESC	DO/FFP	RAYTHEON CORP./ MARLBORO, MA	Feb-06	Feb-08			
FY2007(1,4)			AFMC/ESC	DO/FFP	RAYTHEON CORP./ MARLBORO, MA	Nov-06	Jan-09			
FY2008(1,4)			AFMC/ESC	C/FFP	UNKNOWN	Dec-07	Jan-10	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2009(1,4)			AFMC/ESC	DO/FFP	UNKNOWN	Dec-08	Jan-11	Yes		
AIRFIELD AUTOMATION SYSTEM (AFAS)										
AFAS										
FY2006(1,3)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-06	Apr-06			
FY2007(1,3)			AFMC/ESC	DO/FFP	MULTIPLE	Dec-06	Jan-07			
STRATCOM DASR/DAAS										
WHITEMAN AFB DASR/DAAS										
FY2006(1-2)			AFMC/ESC	OPT/FFP	RAYTHEON CORP./ MARLBORO, MA	Apr-06	Apr-07			
<b>Remarks:</b>										
<p>(1) System equipment quantity and configurations are tailored to meet specific site requirements. The result is varying unit costs in all systems.</p> <p>(2) Option to the Federal Aviation Administration (FAA) Standard Terminal Automated Replacement System contract awarded in September 1996 (14 options).</p> <p>(3) AFAS equipment contractor is Multimax Inc., Laurel, MD, using AF Network-Centric Solutions (NETCENTS) contract; AFAS software contractor is Systems Atlanta, Inc., Woodstock, GA, base year Aug 05 with options through Aug 07.</p> <p>(4) Delivery order to DASR contract awarded in August 1996. The program office is working on a follow-on contract to complete radar system procurement.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$94,422	\$76,796	\$61,769	\$104,255	\$109,693	\$125,192	\$129,946	\$126,700
<p><b>Description:</b></p> <p>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 acquisition and development of a common baseline. Mission Planning Systems provide unit-level mission planning for pilots and support all current/future aircraft and associated weapons.</p> <p>1. <b>BATTLE CONTROL SYSTEM-MOBILE (BCS-M):</b> 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.</p> <p>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 full operational capability (FOC) 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 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b> bring new capabilities to the warfighter to include a HMMWV-mounted C2 element specifically designed to rapidly respond to Homeland Defense, other short duration or small scale C2 missions and net-centric battlefield management.  a. BCS-M EVOLUTIONARY UPGRADES: FY08 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 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: FY08 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): FY08 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: FY08 funding provides program/engineering support for BCS-M.  e. CENTAF BCS-M/BCC-CENTAF: No FY08 funding requested.  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 into a comprehensive recognized air picture.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b> <p>This integrated air picture will enhance North American Aerospace Defense/Combatant Commander capability to conduct peacetime air sovereignty homeland defense 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. They provide 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). The system being replaced has reached saturation of its capability to receive, process, display, exchange and employ air surveillance data from current sensor and communications systems, thus decreasing mission effectiveness. The outdated technology constitutes a limiting factor in the Homeland Defense kill chain, is costly to sustain and is a stovepipe system with no ability to integrate with other BMC2 systems.</p> <p>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, leveraging capabilities from Area Cruise Missile Defense Advanced Capabilities Technology Demonstration, leveraging capabilities from BCS-M and technical refresh of BCS-F. Developmental funding for this program is in Program Element 0102326F.</p> <p>b. INTERIM CONTRACTOR SUPPORT (ICS): Funding provides Interim Contractor Support associated with the fielding of BCS-F Evolutionary Upgrades. Contractor support will provide temporary material and asset logistics support to BCS-F systems, sub-systems and support equipment.</p> <p>c. PROGRAM SUPPORT: Funding for program office, engineering and other contractor support for BCS-F.</p> <p>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,</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b> 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. FY08 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. FY08 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. FY 08 funding will continue procuring precision aerial delivery kits which will include, but are not limited to, pressurized hard drives, software,					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT		
<b>Description (continued):</b> GPS devices for moving map displays, portable data storage units, UHF receivers, dropsondes, interface processors, engineering and technical support, airdrop training loads, pallets and steerable canopies, and associated hardware warranties and software licenses.  d. PROGRAM/ENGINEERING SUPPORT: FY08 funding provides program/engineering/hardware support for Mission Planning Systems.  In FY06, Theater Air Control System Improvement received \$24.0M in additional funding under P.L. 109-234, the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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)				{\$67,222}			{\$42,371}			{\$33,552}			{\$68,984}
BCS-M EVOLUTIONARY UPGRADES	A			\$36,188			\$39,431			\$26,655			\$60,473
CRC IMPROVEMENTS	A			\$2,282			\$707			\$3,570			\$5,050
INTERIM CONTRACTOR SUPPORT (ICS)				\$570			\$500			\$1,150			\$1,260
PROGRAM SUPPORT				\$4,182			\$1,733			\$2,177			\$2,201
CENTAF BCS-M/BCC-CENTAF	A			\$24,000									
BATTLE CONTROL SYSTEM FIXED (BCS-F)				{\$11,115}			{\$18,170}			{\$11,232}			{\$12,401}
BCS-F EVOLUTIONARY UPGRADES	A			\$3,979			\$8,692			\$1,441			\$3,182
INTERIM CONTRACTOR SUPPORT (ICS)				\$5,769			\$8,216			\$8,627			\$8,170
PROGRAM SUPPORT				\$1,367			\$1,262			\$1,164			\$1,049
MISSION PLANNING SYSTEMS				{\$16,085}			{\$16,255}			{\$16,985}			{\$22,870}
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)	A			\$5,006			\$4,859			\$3,908			\$4,029
PC-BASED MISSION PLANNING COMPUTER (PMPC)	A			\$8,818			\$10,573			\$9,335			\$9,621
PRECISION AERIAL DELIVERY SYSTEM (PADS)	A			\$1,500						\$2,890			\$8,248
<b>P-1 ITEM NO</b> 19		<b>PAGE NO:</b> 41			Page 1 of 2								

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				\$761			\$823			\$852			\$972
<b>TOTALS:</b>				\$94,422			\$76,796			\$61,769			\$104,255

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Dec-05	Dec-06			
FY2007(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Dec-06	Nov-07			
FY2008(1-2)			AFMC/ESC	OTH/OTH	UNKNOWN	Dec-07	Nov-08	Yes		
FY2009(1-2)			AFMC/ESC	OTH/OTH	UNKNOWN	Dec-08	Nov-09	Yes		
CRC IMPROVEMENTS										
FY2006(1-2)			AFMC/OO-ALC	OTH/OTH	MULTIPLE	Mar-06	May-07			
FY2007(1-2)			AFMC/OO-ALC	OTH/OTH	MULTIPLE	Feb-07	Sep-07	Yes		
FY2008(1-2)			AFMC/OO-ALC	OTH/FFP	UNKNOWN	May-08	Aug-09	Yes		
FY2009(1-2)			AFMC/OO-ALC	OTH/FFP	UNKNOWN	May-09	Aug-10	Yes		
CENTAF BCS-M/BCC-CENTAF										
FY2006(1,4)			AFMC/ESC	OTH/FFP	BAE/HUNTSVILLE, AL	Nov-06	Oct-07			
		<b>P-1 ITEM NO</b> 19			<b>PAGE NO:</b> 43			Page 1 of 4		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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 FIXED (BCS-F)										
BCS-F EVOLUTIONARY UPGRADES										
FY2006(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	May-07	Apr-08	Yes		
FY2007(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	May-07	Apr-08	Yes		
FY2008(1-2)			AFMC/ESC	SS/CPAF	THALES RAYTHEON SYSTEMS COMPANY/ FULLERTON, CA	Oct-07	Sep-08	Yes		
FY2009(1-2)			AFMC/ESC	C/FFP	UNKNOWN	Oct-08	Sep-09	Yes		
MISSION PLANNING SYSTEMS										
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)										
FY2006(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Apr-06	Jun-06			
FY2007(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07			
FY2008(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-07	Feb-08	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
FY2009(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
PC-BASED MISSION PLANNING COMPUTER (PMPC)									
FY2006(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Feb-06	May-06		
FY2007(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07		
FY2008(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-07	Feb-08	Yes	
FY2009(1,3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
PRECISION AERIAL DELIVERY SYSTEM (PADS)									
FY2006(1,3)			USAYPG	MIPR/FFP	ARMY/PLANNING SYSTEMS INC/RESTON, VA	Aug-06	Feb-07		
FY2008(1,3)			AFMC/ESC	C/FFP	UNKNOWN	Nov-07	May-08	Yes	
FY2009(1,3)			AFMC/ESC	C/FFP	UNKNOWN	Nov-08	May-09	Yes	
<b>Remarks:</b>									
(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,									
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>Baltimore, MD; Raytheon, Fullerton, CA; Naval Air Warfare Center, Patuxent River, St Inigoes, MD; Innovative Solutions Consulting, Hollywood, MD; etc. Award/delivery dates reflect date of first award and delivery.</p> <p>(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.</p> <p>(4) The BCC-CENTAF Primary Contracting Office (PCO) is located at the U.S. Army Space and Missile Defense Command Battlelab in Colorado Springs, CO.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$34,602	\$38,171	\$23,650	\$29,576	\$22,472	\$26,562	\$23,937	\$22,903
<p><b>Description:</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p style="padding-left: 40px;">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. FY08 funding procures fixed and/or deployable capabilities.</p> <p style="padding-left: 40px;">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. FY08 funding procures COTS equipment.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST			
<b>Description (continued):</b> <p>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. FY08 funding procures COTS Doppler radar systems.</p> <p>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, Combat Weather Teams (CWTs) provide front-line AF and Army commanders target-scale weather information in direct support of combat operations. CWTs operate at both home station and deployed locations. FY08 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.</p> <p>3. WEATHER DATA ANALYSIS: This program provides atmospheric data analysis capabilities within the AFW Strategic Center to generate products required by regional OWSs and CWTs 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. FY08 funding procures computer hardware and associated 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.</p> <p>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. FY08 funding procures computer servers 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.</p> <p>5. WEATHER DATA DISSEMINATION: This program transitions to a net-centric interface for the timely, reliable transmission of weather data and products to intermediate and end users by 2010. The advanced interface and delivery method ensures data integrity and continuity of service. 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. FY08 funding procures COTS computer hardware and software and associated communications equipment.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST		
<b>Description (continued):</b>  In FY07 WEATHER OBSERVATION FORECAST received a \$3.30M Congressional add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: WEATHER OBSERVATION FORECAST								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{\$9,780}			{\$9,014}			{\$6,297}			{\$9,500}
OS-21				{\$9,780}			{\$9,014}			{\$1,400}			{\$1,400}
PRIME MISSION EQUIPMENT	A			\$7,890			\$7,820			\$1,400			\$1,400
PROGRAM SUPPORT				\$1,890			\$1,194						
NEXT GENERATION IONOSONDE (NEXION) REPLACEMENT										{\$3,000}			{\$4,500}
PRIME MISSION EQUIPMENT	A									\$3,000			\$4,500
PORTABLE DOPPLER RADAR										{\$1,897}			{\$3,600}
PRIME MISSION EQUIPMENT	A									\$1,897			\$3,600
PRODUCT TAILORING/WARFIGHTER APPLICATIONS				{\$10,312}			{\$10,278}			{\$3,900}			{\$2,700}
PRIME MISSION EQUIPMENT	A			\$8,812			\$8,733			\$3,315			\$2,295
PROGRAM SUPPORT				\$1,500			\$1,545			\$585			\$405
WEATHER DATA ANALYSIS				{\$6,014}			{\$8,227}			{\$5,338}			{\$5,646}
PRIME MISSION EQUIPMENT	A			\$2,014			\$3,946			\$2,138			\$2,846
PRIME MISSION EQUIPMENT	A			\$3,500			\$3,286			\$2,300			\$1,800

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: WEATHER OBSERVATION FORECAST									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				\$500			\$995			\$900			\$1,000	
WEATHER FORECASTING				{\$1,079}			{\$775}			{\$3,223}			{\$3,748}	
PRIME MISSION EQUIPMENT	A			\$1,079			\$775			\$3,223			\$3,748	
WEATHER DATA DISSEMINATION				{\$7,417}			{\$9,877}			{\$4,892}			{\$7,982}	
PRIME MISSION EQUIPMENT	A			\$4,661			\$6,589			\$2,350			\$5,036	
PRIME MISSION EQUIPMENT	A			\$1,718			\$1,939			\$2,162			\$2,506	
PROGRAM SUPPORT				\$1,038			\$1,349			\$380			\$440	
TOTALS:				\$34,602			\$38,171			\$23,650			\$29,576	
<p><b>Remarks:</b> Total Cost information is in thousands of dollars.</p>														
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-2)			AFMC/ESC	OPT/IDIQ	COASTAL ENVIRONMENTAL SYSTEMS/ SEATTLE, WA	Feb-06	Apr-06			
FY2007(1,3)			AFMC/ESC	C/FFP	UNKNOWN	Mar-07	Aug-07	Yes		
FY2008(1,4)			AFMC/OO-ALC	C/FFP W/OPT	UNKNOWN	Jan-08	Jun-08	Yes		
FY2009(1,5)			AFMC/OO-ALC	OPT/FFP	UNKNOWN	Jan-09	Jun-09	Yes		
NEXT GENERATION IONOSONDE (NEXION) REPLACEMENT										
PRIME MISSION EQUIPMENT										
FY2008(1)			HQ AFWA	C/FFP W/OPT	UNKNOWN	Mar-08	Aug-08	Yes		
FY2009(1,5)			HQ AFWA	OPT/FFP	UNKNOWN	Dec-08	Jun-09	Yes		
PORTABLE DOPPLER RADAR										
PRIME MISSION EQUIPMENT										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
FY2008(1)			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Mar-08	Jul-08	Yes	
FY2009(1,5)			AFMC/ESC	OPT/FFP	UNKNOWN	Dec-08	Jun-09	Yes	
PRODUCT TAILORING/WARFIGHTER APPLICATIONS									
PRIME MISSION EQUIPMENT									
FY2006(1,6)			AFMC/ESC	C/PAF W/OPT	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/BELLEVUE, NE	Mar-06	Feb-07		
FY2007(1,6)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/BELLEVUE, NE	Jun-07	Nov-07	Yes	
FY2008(1,6)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/BELLEVUE, NE	Jun-08	Nov-08	Yes	
FY2009(1,6)			AFMC/ESC	OPT/CPAF	RAYTHEON INFORMATION & INTELLIGENCE SYSTEMS/BELLEVUE, NE	Jun-09	Nov-09	Yes	
WEATHER DATA ANALYSIS									
PRIME MISSION EQUIPMENT									
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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						
FY2006(1,7)			AFMC/ESC	OPT/IDIQ	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Aug-06	Dec-06								
FY2006(1,8)			HQ AFWA	C/CPAF	MULTIPLE	Apr-06	Jul-06								
FY2007(1,7)			AFMC/ESC	OPT/IDIQ	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Jun-07	Aug-07	Yes							
FY2007(1,9)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/BELLEVUE, NE	Mar-07	Jun-07	Yes							
FY2008(1,7)			AFMC/ESC	OPT/IDIQ	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Oct-07	Aug-08	Yes							
FY2008(1)			HQ AFWA	C/PAF W/OPT	UNKNOWN	Mar-08	Jun-08	Yes							
FY2009(1,7)			AFMC/ESC	OPT/IDIQ	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Oct-08	Aug-09	Yes							
FY2009(1,10)			HQ AFWA	OPT/CPAF	UNKNOWN	Mar-09	Jun-09	Yes							
WEATHER FORECASTING															
PRIME MISSION EQUIPMENT															
FY2006(1,9)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/BELLEVUE, NE	Apr-06	Sep-06								
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 15%; text-align: center;"><b>P-1 ITEM NO</b> 20</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;"><b>PAGE NO:</b> 54</td> <td style="width: 15%;"></td> <td style="width: 20%; text-align: right;">Page 3 of 5</td> </tr> </table>											<b>P-1 ITEM NO</b> 20		<b>PAGE NO:</b> 54		Page 3 of 5
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2007(1,9)			HQ AFWA	OPT/CPAF	NORTHROP GRUMMAN SPACE & MISSION SYSTEMS/BELLEVUE, NE	Mar-07	Jun-07	Yes		
FY2008(1)			HQ AFWA	C/PAFW/OPT	UNKNOWN	Mar-08	Jun-08	Yes		
FY2009(1,10)			HQ AFWA	OPT/CPAF	UNKNOWN	Mar-09	Jun-09	Yes		
WEATHER DATA DISSEMINATION										
PRIME MISSION EQUIPMENT										
FY2006(1,11)			HQ AFWA	C/FP	MULTIPLE	Feb-06	Jul-06			
FY2006(1,12)			AFMC/ESC	C/OTH	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Feb-06	Jun-06			
FY2007(1,11)			HQ AFWA	C/FP	UNKNOWN	Mar-07	Jul-07	Yes		
FY2007(1,12)			AFMC/ESC	C/FP	UNKNOWN	Mar-07	Jun-07	Yes		
FY2008(1,11)			HQ AFWA	C/FP	UNKNOWN	Mar-08	Jul-08	Yes		
FY2008(1,12)			AFMC/ESC	C/FP	UNKNOWN	Dec-07	Jun-08	Yes		
FY2009(1,11)			HQ AFWA	C/FP	UNKNOWN	Mar-09	Jul-09	Yes		
FY2009(1,12)			AFMC/ESC	C/FP	UNKNOWN	Dec-08	Jun-09	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p><b>Remarks:</b></p> <p>(1) Quantity and unit cost vary due to site-specific configurations.</p> <p>(2) Initial contract was awarded to Coastal Environmental Systems, Seattle, WA in Nov 01. FY06 is final option year</p> <p>(3) PCO at AFMC/ESC to acquire fixed-base systems.</p> <p>(4) PCO at AFMC/OO-ALC to acquire deployable systems.</p> <p>(5) Will be first option year to the CFFP contract, contractor TBD, awarded the previous year.</p> <p>(6) Basic contract was awarded to Raytheon Information &amp; Intelligence Systems, Bellevue, NE March 2006 with 5 one year options.</p> <p>(7) AFMC/ESC MIPRs funds to PCO at Defense MicroElectronics Activity, McClellan Park, CA, to acquire capability to provide global-scale atmospheric data forecasting and analysis. Initial contract awarded to Raytheon Technical Services, Bellevue, NE, May 04, with options available through FY09.</p> <p>(8) Multiple contractors: 55th Contracting Squadron, Offutt AFB, NE, serves as PCO for HQ AFWA to acquire data capabilities from next generation satellites through the Systems Engineering Management &amp; Sustainment contract, C/CPAF, with Northrop Grumman Space &amp; Mission Systems, Bellevue, NE, basic contract awarded Sep 02. Air Force Space Command, Space Logistics Group through contract, SS/FFP, with Harris Corporation, Palm Bay, FL, Jun 06.</p> <p>(9) 55th Contracting Squadron, Offutt AFB, NE, serves as PCO for HQ AFWA to acquire data capabilities from next generation satellites through Systems Engineering Management &amp; Sustainment contract, C/CPAF, Northrop Grumman Space &amp; Mission Systems, Bellevue, NE, basic contract awarded Sep 02.</p> <p>(10) Will be first option year to the CPAF contract, contractor TBD, awarded the previous year.</p> <p>(11) 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 &amp; 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 FY07 - FY09 TBD.</p> <p>(12) PCO at AFMC/ESC to acquire capability to supply weather to external customers with Time &amp; Materials contract through GSA. FY06 contract awarded to Raytheon Technical Services, Bellevue, NE; FY07-FY09 TBD.</p>										
<b>P-1 ITEM NO</b> 20			<b>PAGE NO:</b> 56			Page 5 of 5				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$43,291	\$26,940	\$41,216	\$54,101	\$35,914	\$26,389	\$26,907	\$27,440

**Description:**  
 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 produces 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. FY08 funding supports the upgrade of equipment at all of the operational sites. Funding supports both the fixed sites and mobile platforms.
2. **MOBILE CONSOLIDATED COMMAND CENTER (MCCC):** No FY08 funding requested.
3. **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 is a program employing 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. FY08 Upgrades include continuation of Enterprise Workstations and Consoles, facility hardware, audio/visual systems, server upgrades, network upgrades (last mile), and hardware refresh. FY08 funding supports life-cycle upgrades to the hardware and software in the Software Integration Laboratory (SIL), Command Center

	<b>P-1 ITEM NO</b> 21		<b>PAGE NO:</b> 57	Page 1 of 3
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b> Upgrade (CCU), and the Commanders Situation Room.  b. AFSPC C2 Modernization program: No FY08 funding requested.					
<p>4. <b>INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN):</b> 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 this mission. ISPAN infrastructure capabilities develop, verify, and produce Operational Plan (OPLAN) 8044 and Contingency Plan (CONPLAN) 8022, Theater Support Planning Documents, new Unified Command Plan (UCP) taskings, and related products. To support its mission objectives, ISPAN includes automated data processing equipment (ADPE), software, training, associated deployable and distributed data processing nodes, and subsidiary systems. Funding supports the phased sustainment and life-cycle hardware refresh for ISPAN. ISPAN is one of DoD's most complex classified computer systems and the only national force level planning system. The system performs tasks ranging from running threat scenarios to providing data for developing bomber aircraft crew strike mission data in digital and hard copy formats. USSTRATCOM uses a six-year hardware life-cycle plan to refresh servers, storage devices, workstations, PCs, and network upgrades. This life-cycle refresh plan eliminates the peaks and valleys to better utilize existing manpower to install and configure the refreshment hardware, providing an incremental and efficient life cycle refresh of critical infrastructure components. Development funding for this program is in Program Element 0101313F.</p> <p>FY08 funding continues the life-cycle procurement of application servers, storage area network (SAN), high availability storage arrays, and backup and recovery systems. It also supports the life-cycle workstation (UNIX platform) refresh project, provides for the life-cycle refresh of Government Furnished Equipment (GFE) at application contractor sites, and the procurement of equipment to support ISPAN strategic modernization efforts. This includes workstations, PCs, servers, storage devices, networking infrastructure and other peripherals. FY08 funding also continues the next increment of the PC and peripheral hardware life-cycle refresh workstations, PCs, servers, storage devices, networking infrastructure and other peripherals.</p>					
<p>5. <b>B-2 SUPPORT:</b> The B-2 weapon system relies heavily on C2 equipment to meet its operational capability.</p> <p>a. <b>ENGINEERING DATA SYSTEMS (EDS):</b> EDS provides engineers with specialized computers for on-line access to B-2 aircraft data. This</p>					
	<b>P-1 ITEM NO</b> 21		<b>PAGE NO:</b> 58		Page 2 of 3

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b> 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: Langley AFB, VA, Whiteman AFB, MO, Wright-Patterson AFB, OH, Oklahoma City Air Logistics Center, Tinker AFB, OK, and Northrop Grumman Corp, CA. FY08 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 commercial-off-the-shelf (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. FY08 funding continues the replacement of obsolete computer systems and enhancements to existing computer equipment (i.e., computer hardware, terminals, printers, disk and tape drives, workstations, commercial software, etc.) 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.  6. DISTRIBUTIVE COMMAND AND CONTROL NODE (DC2N) SITES: 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. FY08 funding will procure initial system to include: commercial off the shelf backbone network components; satellite, line-of-site and terrestrial communications systems; message distribution system components; battle staff work station components; and HEMP protection. Replacement components and spare parts will ensure COTS products remain fully mission capable and technologically current (within the manufacturers life cycle). FY08 funds life cycle upgrades to ensure interoperability and reliability in the larger command and control architecture.					
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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

STRATEGIC COMMAND AND CONTROL

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	A		\$1,640		\$1,480		\$7,440		\$2,286
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A		\$8,912						
USSTRATCOM C2 MODERNIZATION	A		\$13,644		\$4,366		\$3,410		\$9,838
AFSPC C2 MODERNIZATION	A		\$4,947		\$3,062				
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)	A		\$6,640		\$9,977		\$9,928		\$13,233
B-2 SUPPORT			{ \$7,508 }		{ \$8,055 }		{ \$4,233 }		{ \$4,388 }
ENGINEERING DATA SYSTEMS (EDS)	A		\$1,651		\$3,231		\$2,366		\$2,435
WEAPON SYSTEM SUPPORT CENTER (WSSC)	A		\$5,857		\$4,824		\$1,867		\$1,953
DISTRIBUTIVE COMMAND AND CONTROL NODES (DC2N) SITES	A						\$16,205		\$24,356
TOTALS:			\$43,291		\$26,940		\$41,216		\$54,101

**Remarks:**

Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)(2,8)										
FY2006(1-2)			USSTRATCOM	C/FP	MULTIPLE	Aug-06	Sep-06			
FY2007(1)			USSTRATCOM	C/FP	UNKNOWN	Mar-07	May-07	Yes		
FY2008(1)			USSTRATCOM	C/FP	UNKNOWN	Mar-08	May-08	Yes		
FY2009(1)			USSTRATCOM	C/FP	UNKNOWN	Mar-09	May-09	Yes		
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)										
FY2006(1,3)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ ALBUQUERQUE, NM	Feb-06	May-06			
USSTRATCOM C2 MODERNIZATION										
FY2006(1,4)			USSTRATCOM	C/CPAF	MULTIPLE	Mar-06	May-06			
FY2007(1)			USSTRATCOM	C/CPAF	UNKNOWN	Mar-07	May-07	Yes		
FY2008(1)			USSTRATCOM	C/CPAF	UNKNOWN	Mar-08	May-08	Yes		
FY2009(1)			USSTRATCOM	C/CPAF	UNKNOWN	Mar-09	May-09	Yes		
		<b>P-1 ITEM NO</b> 21			<b>PAGE NO:</b> 61			Page 1 of 4		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
AFSPC C2 MODERNIZATION										
FY2006(1,5)			AFSPC/SMC	SS/CPAF	MULTIPLE	Mar-06	Jun-06			
FY2007(1,5)			AFSPC/SMC	SS/CPAF	MULTIPLE	Mar-07	Jun-07	Yes		
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)										
FY2006(1,6)			USSTRATCOM	OPT/FFP	MULTIPLE	Dec-05	Feb-06			
FY2007(1,6)			USSTRATCOM	OPT/FFP	MULTIPLE	Nov-06	Feb-07			
FY2008(1,6)			USSTRATCOM	OPT/FFP	MULTIPLE	Dec-07	Feb-08	Yes		
FY2009(1,6)			USSTRATCOM	OPT/FFP	MULTIPLE	Dec-08	Feb-09	Yes		
B-2 SUPPORT										
ENGINEERING DATA SYSTEMS (EDS)										
FY2006(1,7)			AFMC/OC-ALC	C/CPFF	MULTIPLE	Mar-06	Apr-06			
FY2007(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-07	Apr-07	Yes		
FY2008(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-08	Apr-08	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2009(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-09	Apr-09	Yes		
WEAPON SYSTEM SUPPORT CENTER (WSSC)										
FY2006(1,7)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/MULTIPLE	Mar-06	Apr-06			
FY2007(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-07	Apr-07	Yes		
FY2008(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-08	Apr-08	Yes		
FY2009(1)			AFMC/OC-ALC	MIPR/C/CPFF	GSA/ UNKNOWN	Mar-09	Apr-09	Yes		
DISTRIBUTIVE COMMAND AND CONTROL NODES (DC2N) SITES										
FY2008(1,8)			USSTRATCOM	C/OTH	UNKNOWN	Jan-08	Mar-08	Yes		
FY2009(1,8)			USSTRATCOM	C/OTH	UNKNOWN	Jan-09	Mar-09	Yes		
<b>Remarks:</b>										
(1) Varying unit costs and quantities due to various types of equipment being procured. (2) 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. (3) Lockheed Martin contract awarded Feb 00 with option years through FY08.										
			<b>P-1 ITEM NO</b> 21			<b>PAGE NO:</b> 63				Page 3 of 4

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(4) Contractors include Lockheed Martin, Computer Science Corporation, as well as other DISA contracted projects. Award/delivery dates reflect the date of first contract award and delivery.</p> <p>(5) Separate contracts awarded for SACCS and DIRECT. General Dynamics, Needham, MA, Mar 06 contract awarded for DIRECT. The SACCS contract is being worked through the source selection process, ECD Oct 07.</p> <p>(6) Computer Science Corporation, Falls Church, VA, Jul 04 basic contract award with nine option years. Lockheed Martin Corp, Bellevue, NE, Jul 04 basic contract award with nine one-year options</p> <p>(7) Procurement through various GSA contract sources and contractors. Contractors include: DYNANET, Inc., Oklahoma City, OK; CACI, Oklahoma City, OK; Custom Computer Associates, Oklahoma City, OK DEC Microsystems, Oklahoma City, OK; IBM, Oklahoma City, OK. Award/delivery dates reflect the date of first contract award and delivery.</p> <p>(8) Various contract types (FP, FFP, FFP w/opt) will be used depending on best contract strategy.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$22,301	\$11,200	\$18,612	\$13,754	\$29,267	\$29,715	\$30,297	\$30,897
<p><b>Description:</b></p> <p>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.</p> <p>1. <b>COMBATANT COMMANDER, MOBILE CONSOLIDATED COMMAND CENTER (MCCCs):</b> The Combatant Commander's 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. FY08 funding will procure upgrades and MCCC integration of systems including Global Information Grid interfaces, Defense Red Switch Network components, and Data Distribution System (DDS) components. In addition, FY08 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 manufacturers 18 month life cycle. FY08 funding will continue the USNORTHCOM MCCC transformation to include additional mission capabilities to support Defense Support to Civilian Authorities (DSCA). These capabilities include communications and data processing specifically for USNORTHCOM Battle Staff performing DSCA operations.</p> <p>2. <b>NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT (NCMC-TW/AA) SYSTEMS:</b> 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 locations, to include remote interfacing sites essential for executing US Strategic Command and NORAD missions exercised from the Cheyenne Mountain</p>								
	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 65		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX			
<b>Description (continued):</b> 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 acquires the critical system components that comprise the information technology foundation for CCIC2S. Specifically, this includes system operations, communications, networks, 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. Funds also procured Core C2 enterprise capabilities in support of Air and Missile Warning and Space missions. FY08 funds continues procurement of other hardware refresh equipment that supports the replacement of core capability equipment purchased in FY01/02 to minimize current and future sustainment costs. Refreshment equipment includes PC-level units and server-level items that are scheduled for 5 year and 8 year refresh plan; also included are refreshment updates to COTS software and operating systems.  b. MISSILE ANALYSIS AND REPORTING SYSTEM (MARS): No FY08 funding requested.  c. SPACE COMMAND AND CONTROL:  (1) SINGLE INTEGRATED SPACE PICTURE (SISP): No FY08 funding requested.					
	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 66		Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CHEYENNE MOUNTAIN COMPLEX									
COMBATANT COMMANDER MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A		\$4,113		\$4,331		\$4,174		\$4,271
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS			{\$18,188}		{\$6,869}		{\$14,438}		{\$9,483}
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE	A		\$8,411		\$5,068		\$14,438		\$9,483
MISSILE ANALYSIS AND REPORTING SYSTEM (MARS)	A		\$5,866						
SPACE COMMAND AND CONTROL (C2)			{\$3,911}		{\$1,801}				
SINGLE INTEGRATED SPACE PICTURE (SISP)	A		\$3,911		\$1,801				
<b>TOTALS:</b>			\$22,301		\$11,200		\$18,612		\$13,754

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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)										
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Mar-06	Sep-06			
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Mar-07	Jul-07	Yes		
FY2008(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Feb-08	Aug-08	Yes		
FY2009(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Jan-09	Aug-09	Yes		
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS										
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE										
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Mar-06	Sep-06			
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Feb-07	Jul-07	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Nov-07	Jul-08	Yes		
FY2009(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Nov-08	Aug-09	Yes		
MISSILE ANALYSIS AND REPORTING SYSTEM (MARS)										
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Mar-06	Sep-06			
SPACE COMMAND AND CONTROL (C2)										
SINGLE INTEGRATED SPACE PICTURE (SISP)										
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	May-06	May-07			
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEEDMARTIN/ COLORADO SPRINGS, CO	Mar-07	Jul-07	Yes		
<b>Remarks:</b>										
<p>(1) Quantities and unit costs vary due to different types/configurations of equipment being procured.</p> <p>(2) Options to basic Firm Fixed Price (FFP) contract (through FY11) awarded Feb 00 by competitive bid to Lockheed Martin, Colorado Springs, CO.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$125,401	\$132,806	\$113,348	\$111,698	\$115,431	\$114,924	\$127,244	\$114,199

**Description:**  
 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)(previously "11th WING")

1. HEADQUARTERS INFORMATION TECHNOLOGY INVESTMENT: No FY08 funding requested.
2. HEADQUARTERS MAINFRAME SYSTEM SUPPORT: No FY08 funding requested.
3. DISASTER RECOVERY PROGRAM (DRP): The DRP supports Defense Intelligence Agency plans for data recovery capability of mission-critical 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. FY08 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,

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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> and installation costs.					
4. AIR FORCE HISTORICAL RESEARCH AGENCY: FY08 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: FY08 funding procures wargaming and analysis suites, hardware, and software for a Joint Warfighting System (JWARS) to be distributed in Washington, DC, and to four Air Force bases.					
6. PALMTOP EMERGENCY ACTION FOR CHEMICAL (PEAC): No FY08 funding requested. In prior budget submissions, PEAC funds were listed in the "AFMC" paragraph.					
AFCA					
7. AIRBORNE NETWORKING INTEGRATION: FY08 funds procure equipment for the Air Force Communications Agency System Integration Lab. Funds also procure and enhance Ground/Government Entry Point (GEP) equipment, which is used to connect aircraft to ground based networks, to include connecting through these to satellites and on to other locations worldwide. Funds will also support interfaces to other equipment and new systems such as Interim Capability for Airborne Networking (ICAN) and Battlefield Airborne Communications Node (BACN).					
AIR COMBAT COMMAND (ACC)					
8. BASE OPERATIONS-GEOSPATIAL: FY08 funds procure equipment for Air Force Geospatial Product Library (GPL) operations, commercial imagery, 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 including contract support critical to Controlled Image Base (CIB) production. CIB is the imagery database used in all AF automated mission planning/rehearsal systems including Falcon View. Funding also supports imagery data purchases for CIBs and sustains the AFINTNET system which is the source of TS/SCI and message traffic. AFINTNET is used for targeting, database,					
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<b>Description (continued):</b> mission planning, and mission effectiveness for F-117, 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 FY08 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. FY08 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 FY08 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.					
12. EDUCATION AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM: No FY08 funding requested.					
13. AIR UNIVERSITY (AU): These funds support efforts to migrate to the Education Management System (EMS). The EMS implements effective and					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
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<b>Description (continued):</b> 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. FY08 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. FY08 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): FY08 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, 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					
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<b>Description (continued):</b> 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. FY08 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: FY08 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. FY08 funds will procure computer hardware and associated peripheral equipment to maintain operational readiness/availability of the WSMIS module. In addition, FY08 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 Systems (RTLS) technology and systems. FY08 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					
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<b>Description (continued):</b> 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. FY08 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. <b>EAGLE VISION:</b> 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 System (DAS) and Data Integration System (DIS). FY08 funds support procurement of EV6, Eagle Vision DAS, and DIS upgrades. These upgrades support improved processing capability, additional satellite capabilities, and baseline upgrades.					
22. <b>INTEGRATED BROADCAST SERVICE (IBS):</b> 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. FY08 funds procure hardware and associated software upgrades/licenses for IBS operational baseline critical components. Increase in FY08 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. <b>SCIENCE AND ENGINEERING LAB DATA INTEGRATION:</b> No FY08 funding requested.					
24. <b>JOINT INTERFACE CONTROL OFFICER SUPPORT SYSTEM (JSS):</b> FY08 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 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.					
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>					
<p>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.</p> <p>FY08 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. FY08 OG funding procures mobile and fixed ground-based OG 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.</p> <p>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. FY08 funding procures equipment necessary to support Air Force and joint TDL interoperability testing and fielding.</p> <p>27. AF PARTICIPATING TEST UNIT (AFPTU): No FY08 funding requested.</p> <p>28. POCKET J: FY08 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 Link (SADL). Development funding is in Program Element 0207434F, Link-16 Support and Sustainment.</p> <p>29. LINK 16 ALASKA: No FY08 funding requested.</p>					
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<b>Description (continued):</b>					
30. WORLDWIDE WAREHOUSE REDISTRIBUTION SYSTEM: No FY08 funding requested.					
AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)					
31. AFOSI COMPUTER NETWORK: The AFOSI Communications and Information Directorate 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. FY08 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 2,000 worldwide personnel to effectively process, track, and disseminate perishable investigative information to AF commanders and national-level customers.					
32. 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. FY08 funds procure media analysis and teaching computer forensics, as well as storage area network technologies and associated backbone connectivity.					
AIR FORCE PERSONNEL CENTER (AFPC)					
33. PERSONNEL DATA SYSTEM: FY08 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: FY08 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					
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<b>Description (continued):</b> Civilian Announcement Notification System.					
35. PERSONNEL SERVICE DELIVERY (PSD): FY08 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 FY08 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. FY08 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 mission. FY08 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. FY08 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.					
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<b>Description (continued):</b>					
<p>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 well 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. FY08 funds allow the WPC to tap these systems to develop a more realistic and complex joint training synthetic battle space environment for all participants.</p>					
UNITED STATES NORTHERN COMMAND (USNORTHCOM)					
<p>40. USNORTHCOM ARCHITECTURE AND INTEGRATION: FY08 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. FY08 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), creating a single integrated command center. The single integrated command center will allow the N-NC Commander and his staff to respond to the full spectrum of threats to the United States and North America.</p>					
US STRATEGIC COMMAND (USSTRATCOM)					
<p>41. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE: No FY08 funding requested.</p>					
AIR FORCE SPACE COMMAND/SPACE AND MISSILE CENTER					
<p>42. RESEARCH AND DEVELOPMENT SPACE AND MISSILE OPERATIONS (RDSMO) PROGRAM: This Air Force umbrella program includes funding for the RDT&amp;E Support Complex (RSC), the Center for Research Support (CERES), and Multi-Mission Space Operations Center (MMSOC).</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>  a. RSC/CERES UPGRADES: FY08 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): FY08 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: FY08 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, 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.  In FY07 GENERAL INFORMATION TECHNOLOGY received \$13.0M in Congressional adds in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).					
	<b>P-1 ITEM NO</b> 24		<b>PAGE NO:</b> 80		Page 11 of 11

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GENERAL INFORMATION TECHNOLOGIES									
AIR FORCE DISTRICT OF WASHINGTON			{\$15,313}		{\$17,263}		{\$7,488}		{\$7,659}
HQS IT INVESTMENT	A		\$8,061		\$8,134				
HQS MAINFRAME SYS SPT	A		\$317		\$48				
DISASTER RECOVERY PROGRAM (DRP)	A		\$2,319		\$4,335		\$4,491		\$4,632
AF HISTORICAL RESEARCH AGENCY	A		\$322		\$329		\$520		\$534
DISTRIBUTED TRAINING AND EXERCISES	A		\$794		\$1,217		\$2,477		\$2,493
PALMTOP EMERGENCY ACTION FOR CHEMICAL (PEAC)	A		\$3,500		\$3,200				
AFCA							{\$505}		{\$474}
AIRBORNE NETWORKING	A						\$505		\$474
ACC			{\$3,451}		{\$3,093}		{\$2,507}		{\$2,566}
BASE OPERATIONS-GEOSPATIAL	A		\$2,825		\$2,437		\$2,507		\$2,566
TACTICAL AIR FORCES	A		\$626		\$656				
AETC			{\$6,819}		{\$7,067}		{\$6,570}		{\$5,688}
TECHNICAL TRAINING MANAGEMENT SYSTEM	A		\$618		\$231		\$1,336		\$322

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGY						
PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
AFIT EARS	A		\$470		\$660		\$680		\$696	
EDUCATION AND TRAINING TECH APPLICATIONS PRGM	A		\$1,621		\$1,891					
AU	A		\$1,206		\$1,261		\$1,312		\$1,346	
AFRISS	A		\$2,904		\$3,024		\$3,141		\$3,223	
ROTC	A						\$101		\$101	
AFMC			{\$69,475}		{\$71,444}		{\$57,336}		{\$61,892}	
CETADS	A		\$250		\$250		\$260		\$265	
NETWORK SERVICES	A		\$289		\$250		\$270		\$306	
WSMIS	A		\$608		\$557		\$705		\$455	
AUTOMATIC IDENTIFICATION TECHNOLOGY	A				\$9,655		\$11,981		\$9,969	
AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) POINT OF MAINTENANCE (POMX)	A		\$3,006		\$3,138		\$3,272		\$3,360	
EAGLE VISION	A		\$9,054		\$8,819		\$658		\$676	
INTEGRATED BROADCAST SERVICE	A		\$11,006		\$11,889		\$18,257		\$18,560	
SCIENCE & ENG LAB DATA INTEGRATION	A		\$2,500							
JOINT INTERFACE CONTROL OFFICER SUPT SYT	A		\$4,269		\$5,784		\$7,752		\$6,950	
<b>P-1 ITEM NO</b> 24		<b>PAGE NO:</b> 82		Page 2 of 5						

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
OBJECTIVE GATEWAYS/JOINT RANGE EXTENSION	A		\$22,449		\$17,914		\$6,529		\$13,966
INITIAL FIELDING SUPPORT (IFS)	A		\$4,444		\$4,888		\$1,252		\$1,385
AF PARTICIPATING TEST UNIT (AFPTU)	A				\$2,000				
POCKET J	A		\$1,700		\$5,000		\$6,400		\$6,000
LINK 16 ALASKA	A		\$8,500						
WORLDWIDE WAREHOUSE REDISTRIBUTION SYSTEM	A		\$1,400		\$1,300				
AFOSI			{\$2,545}		{\$2,708}		{\$3,117}		{\$2,898}
AFOSI COMPUTER NETWORK	A		\$2,281		\$2,432		\$2,539		\$2,604
DEFENSE CYBER CRIME CENTER	A		\$264		\$276		\$578		\$294
AFPC			{\$15,514}		{\$17,030}		{\$14,675}		{\$14,297}
PERSONNEL DATA SYSTEM	A		\$3,048		\$3,157		\$5,482		\$5,597
REGIONALIZATION OF CIVILIAN PERSONNEL SPT	A		\$10,295		\$9,979		\$7,556		\$7,678
PERSONNEL SERVICE DELIVERY	A		\$2,171		\$3,894		\$1,637		\$1,022
AIA			{\$2,056}		{\$2,007}				
OFFENSIVE INFORMATION WARFARE SUPPORT	A		\$2,056		\$2,007				

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGY							
PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
USAFA			{\$2,902}		{\$3,031}		{\$3,162}		{\$3,255}	
USAFA COMPUTER SPT	A		\$2,902		\$3,031		\$3,162		\$3,255	
USAFE			{\$1,400}		{\$1,451}		{\$1,177}		{\$1,201}	
INTELLIGENCE ADPE	A		\$571		\$596		\$286		\$293	
WPC	A		\$829		\$855		\$891		\$908	
US NORTHERN COMMAND			{\$5,138}				{\$8,609}		{\$1,421}	
USNORTHCOM ARCHITECTURE & INTEGRATION	A		\$5,138				\$8,609		\$1,421	
USSTRATCOM			{\$334}		{\$488}					
COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE	A		\$334		\$488					
AIR FORCE SPACE COMMAND/SPACE & MISSILE CENTER			{\$236}		{\$7,042}		{\$7,766}		{\$10,183}	
RDSMO										
RSC/CERES UPGRADES	A		\$236		\$250		\$300		\$310	
MMSOC	A				\$6,792		\$7,466		\$9,873	
NATIONAL SECURITY EMERGENCY PREPAREDNESS			{\$218}		{\$182}		{\$436}		{\$164}	
SITE R ADP SUPPORT	A		\$218		\$182		\$436		\$164	
		<b>P-1 ITEM NO</b> 24			<b>PAGE NO:</b> 84			Page 4 of 5		

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TOTALS:			\$125,401		\$132,806		\$113,348		\$111,698

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$11,436	\$13,789	\$14,319	\$14,013	\$13,924	\$13,903	\$14,176	\$14,456
<p><b>Description:</b></p> <p>The Global Command &amp; 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 &amp; 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.</p> <p>1. GCCS-AF MODERNIZATION: FY08 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</p>								
	<b>P-1 ITEM NO</b> 25		<b>PAGE NO:</b> 86		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM		
<b>Description (continued):</b> 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.				
	<b>P-1 ITEM NO</b> 25		<b>PAGE NO:</b> 87	Page 2 of 2

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{11,436}			{13,789}			{14,319}			{14,013}
HARDWARE	A			\$9,936			\$12,289			\$12,819			\$12,513
SOFTWARE LICENSES				\$1,500			\$1,500			\$1,500			\$1,500
TOTALS:				\$11,436			\$13,789			\$14,319			\$14,013

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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)										
FY2006(2)			AFMC/ESC	MIPR/IDIQ	DISA/ DITCO/ SCOTT AFB, IL	Jan-06	Mar-06			
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	Yes		
FY2009(2)			AFMC/ESC	MIPR/IDIQ	DISA/ DITCO/ SCOTT AFB, IL	Jan-09	Mar-09	Yes		
<b>Remarks:</b>										
<p>(1) Quantity and unit costs vary due to different types/configurations of equipment being procured.</p> <p>(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 &amp; Engineering Workstation Procurement. Award/delivery dates reflect date of first award and first delivery.</p>										
	<b>P-1 ITEM NO</b> 25			<b>PAGE NO:</b> 89				Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$7,760	\$10,009	\$10,420	\$10,696	\$10,969	\$11,129	\$11,348	\$11,573
<p><b>Description:</b></p> <p>Global Mobility Command and Control (C2) is crucial to the management and control of global force deployment, employment, sustainment and redeployment for the supported commander.</p> <p>1. GLOBAL MOBILITY C2 ARCHITECTURE: Air Mobility Command (AMC) supports national power projection force deployments and time sensitive logistics requirements. To perform this mission, AMC requires an effective mobility C2 system that provides for efficient centralized management of the entire United States strategic mobility fleet. Whereas most other Major Commands have their entire base communications infrastructure funding in P-1 Line 49, Base Communications Infrastructure, AMC has a portion of its base communications infrastructure funding in P-1 Line 26, Mobility Command and Control. AMC's base communications infrastructure contained herein is AMC unique, directly supporting the global mobility mission.</p> <p style="padding-left: 40px;">a. LOCAL AREA NETWORK (LAN): FY08 funding continues procurement of network equipment at each AMC base/unit to build an enhanced, robust and reliable command-wide intra- and inter-building networking infrastructure. This infrastructure will host critical Air Force systems such as the Defense Message System (provides critical classified and unclassified message service to all DoD users (to include deployed tactical users), access to and from DoD locations worldwide, and interfaces to other U.S. government agencies, allies, and Defense contractors), Combat Information Transport System (the backbone network that provides high-capacity transport of data, voice, and video for all active duty and reserve Air Force bases), Base Level Systems Modernization, and other AMC systems such as Global Decision Support System, Objective Wing Command Post, etc. Upgrades keep pace with changing technology by re-assessing the needs of the warfighter and obtaining the necessary LAN infrastructure needed to sustain current capabilities and implement new C2 systems.</p> <p style="padding-left: 40px;">b. ADVANCED COMPUTER FLIGHT PLAN (ACFP): ACFP is AMC's primary automated aircraft flight planning system, used worldwide by AMC and other USAF major commands during peacetime, crisis, contingency, and wartime operations. The system provides fuel optimized computer flight plans using an online system of track libraries, international navigational aids library, remote terminal request and dissemination procedures, and current</p>								
	<b>P-1 ITEM NO</b> 26		<b>PAGE NO:</b> 90			Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL			
<b>Description (continued):</b> weather forecasts. Primary users include the Tanker Airlift Control Center, flight managers, and base operations personnel. Ongoing software development concentrates on optimizing fuel, cargo, and mission planning and is relied upon for diplomatic clearances and special routings. FY08 funding will purchase two (2) ACFP server suites to support classified flight planning and a contingency remote site suite at McConnell AFB enabling emergency failover/continuity of operations.  c. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): The DSATCOM program constitutes the primary acquisition support vehicle for deployed AMC Tanker Airlift Control Element (a mobile command and control organization deployed to support strategic and theater air mobility operations at fixed, enroute and deployed locations where air mobility operational support is nonexistent or insufficient) and Mission Support Team C2 operations. Resources directly support C2 and In-Transit Visibility (ITV) over deployed and enroute personnel, aircraft, and cargo. FY08 funds will purchase five Hardside Expandable Light Air Mobile Shelter (HELAMS) Mark V Shelters. The HELAMS is the basis for the AN/TSC-159 Mobile Air Reporting and Control (MARC) shelter--a rapidly deployable, self-contained, C2 / ITV command center. The MARC deploys to austere locations and is a crucial part of Contingency Response Groups supporting the Open-the-Airbase force module.  2. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM: The AFSOC TAC C2 program funds the procurement of enhanced communications systems and equipment essential for Special Tactics (ST) operations. Special Tactics operators are combat controllers, pararescue personnel and combat weather personnel. ST operators input intelligence, weather and assault zone assessments into AFSOC's C2 network and receive/relay mission taskings. The AFSOC TAC C2 program enables personnel to perform special reconnaissance, time critical targeting, survey and assessment and combat weather forecasting. AFSOC TAC C2 systems are necessary for operators to perform austere airfield control, drop zone control, terminal attack control and personnel and equipment recovery. FY08 funds procure multiple devices to support ST missions such as machine-to-machine targeting; self-healing communications networking devices that link C2 nodes, ST operators and aircraft into one network and multi-band, multi-mode beacons used to guide aircraft to drop zones, landing zones or extraction zones in support of combat operations.					
	<b>P-1 ITEM NO</b> 26		<b>PAGE NO:</b> 91		Page 2 of 2

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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

MOBILITY COMMAND AND CONTROL

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. GLOBAL C2 ARCHITECTURE									
A. LAN	A		\$3,729		\$4,554		\$4,941		\$5,208
B. ACFP	A		\$750		\$750		\$750		\$750
C. DSATCOM	A		\$3,009		\$4,400		\$4,400		\$4,400
2. AFSOC TAC C2 PROGRAM	A		\$272		\$305		\$329		\$338
TOTALS:			\$7,760		\$10,009		\$10,420		\$10,696

**Remarks:**

Cost information is in thousands of dollars.

**P-1 ITEM NO**  
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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 C2 ARCHITECTURE(1)										
LAN										
FY2006(2)			HQ AMC	OPT/FP	MULTIPLE	Dec-05	Feb-06			
FY2007(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-06	Sep-07			
FY2008(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-07	Jan-08	Yes		
FY2009(2)			HQ AMC	OPT/FP	MULTIPLE	Oct-08	Jan-09	Yes		
ACFP										
FY2006(3)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ ST LOUIS, MO	Jan-06	Apr-06			
FY2007(3)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ ST LOUIS, MO	Mar-07	Sep-07	Yes		
FY2008(3)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ ST LOUIS, MO	Jan-08	Sep-08	Yes		
FY2009(3)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ ST LOUIS, MO	Jan-09	Sep-09	Yes		
DSATCOM										
			<b>P-1 ITEM NO</b> 26				<b>PAGE NO:</b> 93	Page 1 of 3		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006(4)			HQ AMC	MIPR/OPT/FFP	NAVY/BRITISH AEROSPACE SYSTEMS/ UK	Dec-05	Aug-06			
FY2007(4)			HQ AMC	MIPR/OPT/FFP	NAVY/BRITISH AEROSPACE SYSTEMS/ UK	Dec-06	Aug-07			
FY2008(4)			HQ AMC	MIPR/OPT/FFP	NAVY/BRITISH AEROSPACE SYSTEMS/ UK	Dec-07	Aug-08	Yes		
FY2009(4)			HQ AMC	MIPR/OPT/FFP	NAVY/BRITISH AEROSPACE SYSTEMS/ UK	Dec-08	Aug-09	Yes		
AFSOC TAC C2 PROGRAM										
FY2006			HQ AFSOC	MIPR/FFP	MARINES/SIEMENS ROLM/VIENNA, VA	Jan-06	Aug-06			
FY2007			HQ AFSOC	MIPR/FFP	UNKNOWN	Mar-07	Aug-07	Yes		
FY2008			HQ AFSOC	MIPR/FFP	UNKNOWN	Mar-08	Aug-08	Yes		
FY2009			HQ AFSOC	MIPR/FFP	UNKNOWN	Mar-09	Aug-09	Yes		
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 26				<b>PAGE NO:</b> 94	Page 2 of 3		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(1) Quantities and unit costs vary due to different site configurations/computer items being procured.</p> <p>(2) Utilizes Air Force Computer Acquisition Center 308 and Desktop IV &amp; V contracts. Multiple award and delivery dates to multiple vendors; award/delivery dates reflect date of first award and delivery.</p> <p>(3) Contract awarded Oct 02 (nine option years) to Hewlett Packard, St Louis, MO.</p> <p>(4) 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.</p>										
<b>P-1 ITEM NO</b> 26			<b>PAGE NO:</b> 95			Page 3 of 3				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$39,053	\$47,120	\$78,189	\$58,122	\$61,786	\$56,847	\$57,936	\$59,062
<p><b>Description:</b></p> <p>This 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 &amp; 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.</p> <p>1. <b>TACTICAL SECURITY SYSTEMS:</b> Tactical Security Systems provide integrated electronic security systems designed for rapid deployment and worldwide operation. 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 include line and wide-area detection and assessment systems such as ground 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. FY08 funding increases represent Air Force commitment to fund installation, integration, and sustainment of Integrated Base Defense Security Systems (IBDSS) components at Air Force locations worldwide in order to effectively enhance capabilities of security personnel in mission performance.</p>								
	<b>P-1 ITEM NO</b> 27		<b>PAGE NO:</b> 96		Page 1 of 5			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b>					
<p>a. <b>AIR BASE GROUND DEFENSE:</b> These funds 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 and headquarters starter kit configurations, 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. FY08 funding procures and installs TASS equipment.</p>					
<p>b. <b>ANTITERRORISM:</b> 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. FY08 funding procures and installs equipment in support of these antiterrorism efforts.</p>					
<p>c. <b>FLIGHT LINE SECURITY:</b> Flight line security equipment reduces risk to Air Force personnel, weapon systems and facilities deployed 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. Current Integrated Base Defense Security System contracts enable the Air Force to meet flight line security requirements in accordance with the Aerospace Expeditionary Force concept. FY08 funding continues procurement of 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 (perimeter, tactical and flight line). In addition, FY08 funds procure and install TASS alarms, sensors, annunciators (electrically controlled signal board or indicator) and Closed Circuit Television (CCTV) in support of the fight against terrorism.</p>					
<p>2. <b>STRATEGIC SECURITY SYSTEMS:</b> 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</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> Whiteman AFB, MO.  a. AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: These 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 systems/equipment. FY08 continues funding the installation and integration of the perimeter and exterior/interior security system at Weapon Storage Areas (WSAs). FY08 funds provide security upgrade planning at various other WSAs and priority AF locations.  b. FIXED-SITE SECURITY: FY08 funds support Fixed-Site Security projects 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: FY08 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. INTEGRATED BASE DEFENSE SECURITY SYSTEMS (IBDSS): IBDSS effectively reduce the dependence upon future security manpower and enhances the capability of existing manpower. Funds procure installation, integration, and sustainment of IBDSS components at nearly every Air Force location worldwide. FY08 funds will also provide for installations of common, state-of-the-art automated entry control equipment at Air Force installations. Enhanced entry control will increase security, integrate local AF bases with existing national and global security databases, automate visitor control and processing, and reduce security force manpower gaps.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> <p>b. <b>FIXED-SITE SECURITY:</b> Fixed site security projects support 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. 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. FY08 funds provide for technology upgrades to existing entry control systems.</p> <p>4. <b>OTHER SECURITY SYSTEMS:</b> Funds provide for design, acquisition, integration, installation and testing of interior/exterior physical security systems for Air Force major commands worldwide. Funds are also utilized for the planning of logistical support.</p> <p>a. <b>VISUAL DETECTION AND ASSESSMENT SYSTEM (VDAS):</b> The VDAS (formerly the Flight line Security Enhancement Program) provides a 24-hour surveillance, assessment and intrusion detection capability to enhance protection of United States Air Forces Europe (USAFE) flight line areas. This program is being implemented at operating bases throughout the European Theater. Phase 1 installs CCTV and thermal imagers on elevated pan-tilt-zoom mounts and provides a standalone capability of flight line surveillance and assessment. Phase 2 integrates one or more sensor systems, alarm annunciation equipment and delay systems with Phase 1 equipment to provide an intrusion detection capability to help reduce the flight line risk. Funds are also being utilized for CCTV and thermal imager system modification/upgrade efforts.</p> <p>b. <b>JOINT SERVICE INTERIOR INTRUSION DETECTION SYSTEMS (JSIIDS):</b> JSIIDS is used for protection of base resources outside of the Continental United States. The JSIIDS program procures and installs a certified AF annunciator system to replace the aging JSIIDS annunciator, which has been in operation at European bases for over 20 years. FY08 funds continue procurement and installation of JSIIDS at these locations: United Kingdom: Royal Air Force (RAF) Fairford, RAF Molesworth/Alconbury, RAF Mildenhall, RAF Lakenheath; Turkey: Incirlik AB; and Germany: Ramstein AB, Vogelweh and Sembach.</p> <p>c. <b>ADVANCED VIDEO SURVEILLANCE EQUIPMENT:</b> No FY08 funding requested.</p> <p>d. <b>FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM:</b> No FY08 funding requested.</p> <p>e. <b>IBDSS INITIAL MOODY:</b> No FY08 funding requested.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM		
<b>Description (continued):</b>  f. SCHRIEVER AFB, GROUND SPACE ELECTRONIC SECURITY SYSTEM REPLACEMENT: No FY08 funding requested.  In FY07 AIR FORCE PHYSICAL SECURITY SYSTEM received \$6.0M in Congressional adds in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).				
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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

AIR FORCE PHYSICAL SECURITY SYSTEM

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TACTICAL SECURITY SYSTEMS			{ \$10,219 }		{ \$8,152 }		{ \$25,397 }		{ \$23,512 }
AIR BASE GROUND DEFENSE	A		\$3,244		\$2,681		\$3,574		\$5,039
ANTI-TERRORISM	A		\$1,946		\$1,250		\$9,127		\$8,195
FLIGHTLINE SECURITY	A		\$5,029		\$4,221		\$12,696		\$10,278
STRATEGIC SECURITY SYSTEMS			{ \$24,591 }		{ \$30,338 }		{ \$32,053 }		{ \$12,799 }
AIR LAUNCH CRUISE MISSILE	A		\$1,364		\$1,415		\$1,471		\$1,509
FIXED-SITE SECURITY	A		\$22,642		\$28,355		\$29,926		\$10,617
MINUTEMAN SQUADRON SECURITY	A		\$585		\$568		\$656		\$673
NON-STRATEGIC SECURITY SYSTEMS									
INTEGRATED BASE DEFENSE SECURITY SYSTEMS (IBDSS)	A						\$14,000		\$12,500
FIXED-SITE SECURITY	A						\$4,000		\$6,500
OTHER SECURITY SYSTEMS			{ \$4,243 }		{ \$8,630 }		{ \$2,739 }		{ \$2,811 }
VISUAL DETECTION AND ASSESSMENT SYSTEM	A		\$1,946		\$2,286		\$2,387		\$2,451
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS	A		\$297		\$344		\$352		\$360
ADVANCED VIDEO SURVEILLANCE EQUIPMENT	A		\$1,000		\$1,000				

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM
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<b>PROCUREMENT ITEMS</b>	<b>ID CODE</b>	<b>FY2006</b>		<b>FY2007</b>		<b>FY2008</b>		<b>FY2009</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM	A		\$1,000		\$2,000				
IBDSS INITIAL MOODY	A				\$1,600				
SCHRIEVER AFB, GROUND SPACE ELEC SECURITY SYSTEM REPL	A				\$1,400				
<b>TOTALS:</b>			\$39,053		\$47,120		\$78,189		\$58,122

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-06	Mar-06			
FY2007(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Mar-07	May-07	Yes		
FY2008(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-5,8)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-09	Mar-09	Yes		
ANTI-TERRORISM										
FY2006(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-06	Mar-06			
FY2007(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Mar-07	May-07	Yes		
FY2008(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-5,8)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-09	Mar-09	Yes		
FLIGHTLINE SECURITY										
FY2006(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-06	Mar-06			
FY2007(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Mar-07	May-07	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-08	Mar-08	Yes							
FY2009(1-5,8)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-09	Mar-09	Yes							
STRATEGIC SECURITY SYSTEMS															
AIR LAUNCH CRUISE MISSILE															
FY2006(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-06	Mar-06								
FY2007(1-5)			11WING	DO/CPAF	MULTIPLE	Jan-07	Mar-07								
FY2008(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-08	Mar-08	Yes							
FY2009(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-09	Mar-09	Yes							
FIXED-SITE SECURITY															
FY2006(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-07	May-07	Yes							
FY2007(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-07	May-07	Yes							
FY2008(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-08	May-08	Yes							
FY2009(1-5,8)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-09	May-09	Yes							
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 27</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 104</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 2 of 6</td> </tr> </table>											<b>P-1 ITEM NO</b> 27		<b>PAGE NO:</b> 104		Page 2 of 6
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
MINUTEMAN SQUADRON SECURITY										
FY2006(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-06	Mar-06			
FY2007(1-5)			11WING	DO/CPAF	MULTIPLE	Jan-07	Mar-07			
FY2008(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-5)			11WING	DO/CPAF	MULTIPLE	Feb-09	Mar-09	Yes		
NON-STRATEGIC SECURITY SYSTEMS										
INTEGRATED BASE DEFENSE SECURITY SYSTEMS (IBDSS)										
FY2008(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-5,8)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Feb-09	Mar-09	Yes		
FIXED-SITE SECURITY										
FY2008(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-08	May-08	Yes		
FY2009(1-5,9)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-09	May-09	Yes		
OTHER SECURITY SYSTEMS										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
VISUAL DETECTION AND ASSESSMENT SYSTEM										
FY2006(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-06	Mar-06			
FY2007(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-07			
FY2008(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-09	Mar-09	Yes		
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS										
FY2006(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-06	Mar-06			
FY2007(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-07			
FY2008(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-08	Mar-08	Yes		
FY2009(1-2,6)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-09	Mar-09	Yes		
ADVANCED VIDEO SURVEILLANCE EQUIPMENT										
FY2006			ANGRC	SS/FFP	AVANTOR SYSTEMS CORPORATION/ ORLANDO, FL	Sep-06	Dec-06			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	OTH/OTH	UNKNOWN	Apr-07	Jul-07	Yes		
FORCE PROTECTION NEAR REAL TIME SURVEILLANCE SYSTEM										
FY2006(9)			HQ AIA	SS/OTH	ITAC/ RESTON, VA	Mar-07	Jul-07	Yes		
FY2007(9)			HQ AIA	SS/OTH	ITAC/ RESTON, VA	Mar-07	Jul-07	Yes		
IBDSS INITIAL MOODY										
FY2007(1-5,7)			AFMC/ESC	DO/FFP W/OPT	MULTIPLE	Apr-07	Aug-07	Yes		
SCHRIEVER AFB, GROUND SPACE ELEC SECURITY SYSTEM REPL										
FY2007(9)			AFSPC/SMC	OTH/OTH	UNKNOWN	Apr-07	Aug-07	Yes		
<b>Remarks:</b>										
<p>(1) Unit costs vary due to various types and quantities of physical security equipment procured for each site.</p> <p>(2) Award/delivery dates represent the date of first award/delivery.</p> <p>(3) Locations of PCO varies from AFMC/ESC; AFMC/46TW; GSA, Ft Worth TX; Department of Energy/Sandia National Laboratories, Albuquerque NM; USAFE Europe; and AFSPC/SMC.</p> <p>(4) Multiple contract methods and types. AFMC/ESC Prime Contractors include: ABACUS Technology Corp., MD; ECSI International, Inc., NJ; Northrop Grumman Space &amp; Missile Systems Corp., CA; and L-3 Communications Government Services, Inc., VA.</p> <p>(5) Other typical contractors include BAE, Eglin AFB, FL; Diebold, Northridge, CA; Dept of Energy/Sandia Natl Lab, NM.</p>										
			<b>P-1 ITEM NO</b> 27			<b>PAGE NO:</b> 107				Page 5 of 6

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(6) Task Order/Labor Hour contracts to Kylmar, LTD, Andover, UK. Time &amp; Material contracts to Dept of Energy/Sandia Natl Lab, NM &amp; 46TW. Delivery order contract to Vindicator Technologies, Austin, TX.</p> <p>(7) 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.</p> <p>(8) Contract Type FFP W/OPT for FY09 Basic Contract TBD.</p> <p>(9) Contract information TBD.</p>										
<b>P-1 ITEM NO</b> 27			<b>PAGE NO:</b> 108			Page 6 of 6				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$58,508	\$58,504	\$33,423	\$34,286	\$35,220	\$35,604	\$36,274	\$37,184

**Description:**  
 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:** FY08 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. GREEN FLAG provides close air combat support training for ground forces (US Army, USMC). FY08 procures the production and fielding of the P5CTS.
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. FY08 procures and fields these systems.
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

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> 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 to 80% of legacy systems. FY08 funding procures and fields these high-fidelity training aids for the Dare County Range, NC, and the Nellis Test and Training Range (NTTR), NV.  b. MINIATURE MULTIPLE UNMANNED THREAT EMITTER SYS-M3P: FY08 modernizes the Miniature Multiple Unmanned Threat Emitter System.  c. TURBO TRAINS: FY08 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. UMTE MODERNIZATION: No FY08 funding requested.  e. COPE THUNDER LINK 16 TERMINAL: No FY08 funding requested.  f. JOINT THREAT EMITTER, MOUNTAIN HOME AFB: No FY08 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 VOICE SIMULATION SYSTEM (BVSS): No FY08 funding requested.  b. DIRECTION FINDING/SIGNALS INTELLIGENCE/ELECTRONIC INTELLIGENCE/COMMUNICATIONS INTELLIGENCE COLLECTION VANS: This program addresses the Joint National Training Capability (JNTC) pillar to establish an adaptive and credible opposing force (OPFOR) by providing a multi-dimensional adversary, diverse target/threat networks and presenting challenges to support signals intelligence training. An Army led program it will provide OPFOR collection units with the capability to monitor blue force (BLUFOR) electronic signatures, access their vulnerabilities, provide the OPFOR commander real time intelligence and establish the environment for an adaptive OPFOR. These activities will ensure that BLUFOR					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> develops sound techniques, tactics & procedures (TTPs) to effectively employ and operate EW systems.  c. <b>MULTI-SPECTRAL THREAT SYSTEMS:</b> 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 and RCS signature spectrums. Multiple mobile system(s) incorporate exploitable C2 architectures, aircrew feedback, debrief functions, and day/night training. Systems planned for acquisition include: (a) SA-6 Gainful TTL, (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. <b>OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS INCLUDE:</b>  (1) C3I Battle Management System (BMS): No FY08 funding requested.  (2) Command and Control (C2) Network: No FY08 funding requested.  (3) Mobile Commercial Network Infrastructure Training Range (MNCI-TR). Previously identified as "Commercial Communications Network." The MNCI-TR creates a cellular network infrastructure (CNI) implementing both Global System for Mobile Communication (GSM) technologies. It provides a realistic radio frequency signals environment that is needed for testing and training of US forces in urban and suburban battlespace environments without the constraints associated with leased commercial signals.  e. <b>JOINT THREAT EMITTER:</b> No FY08 funding requested.  f. <b>CONCEALMENT, COUNTERMEASURES, AND DECOY (CCD) SYSTEMS:</b> No FY08 funding requested.  g. <b>MAN-PORTABLE AIR DEFENSE (MANPAD) SURFACE-TO-AIR MISSILE (SAM) SIMULATOR SYSTEM:</b> No FY08 funding requested.  h. <b>URBAN TARGET COMPLEX:</b> FY08 funds procure urban complex equipment for a training range environment. Real world threat forces in the urban environment employ diverse equipment/weapons and tactics to sustain their terrorists activities. Terrorists use multiple communication methods to					
	<b>P-1 ITEM NO</b> 28		<b>PAGE NO:</b> 111		Page 3 of 4

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES		
<b>Description (continued):</b> include satellite, cell and land line phones to communicate as well as various radios. They employ a mixture of individual weapons and intermingle with local populace making it hard to distinguish an enemy combatant. This program procures equipment to enable the OPFOR to replicate the asymmetric enemy threat that currently exists in the contemporary urban environment.  i. LASER EVALUATION SCORING SYSTEM: No FY08 funding requested.  j. CONNECTIVITY FOR JOINT COMMON GROUND STATION (CGS) AND JOINT-SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM (J-STARS): No FY08 funding requested.  k. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED): No FY08 funds requested.  l. MARITIME THREAT SYSTEMS: FY08 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 and diesel submarine attacks. This equipment also supports Naval airborne, surface, and shallow-water mine countermeasures systems.  m. GPS DENIED ENVIRONMENT: No FY08 funding requested.  5. RED INTEGRATED AIR DEFENSE: No FY08 funding requested.  6. RED FLAG AK-PARC UPGRADES: No FY08 funding requested.  In FY07 COMBAT TRAINING RANGES received \$23.3M in Congressional adds in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).				
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT TRAINING RANGES									
1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES			{\$4,473}		{\$5,060}		{\$4,693}		{\$4,756}
P5 COMBAT TRAINING SYSTEM AND LEGACY SYSTEM UPGRADES	A		\$4,473		\$5,060		\$4,693		\$4,756
2. AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS			{\$3,418}		{\$3,453}		{\$3,701}		{\$3,841}
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)	A		\$3,418		\$3,453		\$3,701		\$3,841
3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES			{\$18,286}		{\$20,184}		{\$12,219}		{\$12,449}
a. JOINT THREAT EMITTER	A		\$6,126		\$9,488		\$9,503		\$9,656
b. MINIATURE MULTIPLE THREAT EMITTER SIMULATOR-M3P	A		\$1,745		\$1,756		\$1,837		\$1,890
c. TURBO TRAINS	A		\$815		\$840		\$879		\$903
d. UMTE MODERNIZATION	A		\$8,000		\$2,600				
e. COPE THUNDER LINK 16 TERMINAL	A		\$1,600						
f. JOINT THREAT EMITTER MOUNTAIN HOME	A				\$5,500				
4. JOINT NATIONAL TRAINING CAPABILITY (JNTC)			{\$20,331}		{\$21,707}		{\$12,810}		{\$13,240}
a. BATTLEFIELD VOICE SIMULATION SYSTEM (BVSS)	A		\$1,757						

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES
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PROCUREMENT ITEMS	ID CODE	FY2006		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		\$1,250
c. MULTI-SPECTRAL THREAT SYSTEM	A		\$3,142		\$6,307		\$7,250		\$7,750
d. OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS			{\$900}		{\$2,200}		{\$1,900}		{\$1,750}
d.1. C3I BATTLE MANAGEMENT SYSTEM (BMS)	A		\$450		\$350				
d.2. COMMAND AND CONTROL (C2) NETWORK	A				\$350				
d.3. MNCI-TR	A		\$450		\$1,500		\$1,900		\$1,750
e. JOINT THREAT EMITTER (JTE)	A		\$11,546		\$4,600				
f. CONCEALMENT, COUNTERMEASURES, AND DECOY (CCD) SYSTEMS	A		\$391		\$900				
g. MANPAD SURFACE-TO-AIR MISSILE (SAM) SIMULATOR SYSTEM	A				\$3,600				
h. URBAN TARGET COMPLEX	A		\$1,304		\$1,000		\$1,360		\$1,440
i. LASER EVALUATION SCORING SYSTEM (LESS)	A		\$300						
j. CONNECTIVITY OF JOINT COMMON GROUND STATION AND J-STARS	A		\$300						
k. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED)	A		\$391		\$250				
l. MARITIME THREAT SYSTEMS	A				\$600		\$800		\$1,050

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	DATE: FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
m. GPS DENIED ENVIRONMENT	A		\$300		\$250				
5. RED INTEGRATED AIR DEFENSE									
RED INTEGRATED AIR DEFENSE	A		\$12,000						
6. RED FLAG AK-PARC UPGRADES									
RED FLAG AK-PARC UPGRADES	A				\$8,100				
<b>TOTALS:</b>			\$58,508		\$58,504		\$33,423		\$34,286

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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 RANGES										
1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES										
P5 COMBAT TRAINING SYSTEM AND LEGACY SYSTEM UPGRADES										
FY2006(1)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/ SAN DIEGO, CA	Mar-06	Mar-07			
FY2007(1)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/ SAN DIEGO, CA	Mar-07	Mar-08	Yes		
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. AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS										
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)										
FY2006(2)			HQ ACC	MIPR/OTH	NAVY/MULTIPLE	Mar-06	Nov-06			
FY2007(2)			HQ ACC	MIPR/OTH	NAVY/MULTIPLE	Mar-07	Nov-07	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>								
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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						
FY2008(2)			HQ ACC	MIPR/OTH	NAVY/MULTIPLE	Mar-08	Nov-08	Yes							
FY2009(2)			HQ ACC	MIPR/OTH	NAVY/MULTIPLE	Mar-09	Nov-09	Yes							
3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES(3)															
a. JOINT THREAT EMITTER															
FY2006(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-07	Dec-07	Yes							
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-07	Dec-07	Yes							
FY2008(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-08	Oct-09	Yes							
FY2009(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-09	Sep-10	Yes							
b. MINIATURE MULTIPLE THREAT EMITTER SIMULATOR-M3P															
FY2006(5)			AFMC/OO-ALC	DO/FFP	HARRIS COPORATION/ MELBOURNE, FL	Feb-06	Feb-07								
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 28</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 117</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">Page 2 of 10</td> </tr> </table>											<b>P-1 ITEM NO</b> 28		<b>PAGE NO:</b> 117		Page 2 of 10
	<b>P-1 ITEM NO</b> 28		<b>PAGE NO:</b> 117		Page 2 of 10										

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-07	Jan-08	Yes		
FY2008(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-08	Feb-09	Yes		
FY2009(5)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Feb-09	Feb-10	Yes		
c. TURBO TRAINS										
FY2006(6)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/ COLORADO SPRINGS, CO	Apr-06	Nov-06			
FY2007(6)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/ COLORADO SPRINGS, CO	Apr-07	Nov-07	Yes		
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										
FY2006			AFMC/OO-ALC	C/CPFF	DRS/ BUFFALO, NY	Mar-06	Apr-07			
FY2007			AFMC/OO-ALC	C/CPFF	DRS/ BUFFALO, NY	Nov-06	Dec-07			
			<b>P-1 ITEM NO</b> 28				<b>PAGE NO:</b> 118	Page 3 of 10		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
e. COPE THUNDER LINK 16 TERMINAL										
FY2006			HQ PACAF	MIPR/OTH/FFP	NAVY/NAVY/MULTIPLE (1)	Sep-06	Jun-07			
f. JOINT THREAT EMITTER MOUNTAIN HOME										
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-07	Oct-08	Yes		
4. JOINT NATIONAL TRAINING CAPABILITY (JNTC)										
a. BATTLEFIELD VOICE SIMULATION SYSTEM (BVSS)										
FY2006(7)			AFMC/ESC	MIPR/FP W/OPT	NAVY/NAVAIR/ATR/NAS PATUXENT RIVER, MD	Mar-06	Aug-06			
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	Yes		
		<b>P-1 ITEM NO</b> 28			<b>PAGE NO:</b> 119			Page 4 of 10		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(8)			11WING	MIPR/FFP	ARMY/MULTIPLE	Jan-09	Jun-10	Yes	
c. MULTI-SPECTRAL THREAT SYSTEM									
FY2006(9)			11WING	MIPR/FFP	NAVY/MULTIPLE	Feb-06	Jan-07		
FY2007(9)			11WING	MIPR/FFP	NAVY/MULTIPLE	Jan-07	Jan-08		
FY2008(9)			11WING	MIPR/FFP	NAVY/MULTIPLE	Jan-08	Jan-09	Yes	
FY2009(9)			11WING	MIPR/FFP	NAVY/MULTIPLE	Jan-09	Jan-10	Yes	
d. OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS									
d.1. C3I BATTLE MANAGEMENT SYSTEM (BMS)									
FY2006(10)			11WING	MIPR/FFP	ARMY/MULTIPLE	Mar-06	Sep-06		
FY2007(10)			11WING	MIPR/FFP	ARMY/UNKNOWN	Mar-07	Sep-07	Yes	
d.2. COMMAND AND CONTROL (C2) NETWORK									
FY2007			11WING	MIPR/FFP	ARMY/UNKNOWN	Apr-07	Jun-07	Yes	
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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.3. MNCI-TR										
FY2006			11WING	MIPR/FFP	ARMY/SRC/HUNTSVILLE, AL	Mar-06	Sep-06			
FY2007			11WING	MIPR/FFP	ARMY/SRC/HUNTSVILLE, AL	Jan-07	May-08			
FY2008			11WING	MIPR/FFP	ARMY/SRC/HUNTSVILLE, AL	Jan-08	Jun-09	Yes		
FY2009			11WING	MIPR/FFP	ARMY/SRC/HUNTSVILLE, AL	Jan-09	Jun-10	Yes		
e. JOINT THREAT EMITTER (JTE)										
FY2006(4)			AFMC/OO-ALC	OPT/FFP	MTC/DAYTON, OH/// NORTHROP-GRUMMAN/ BUFFALO, NY	Apr-07	Dec-07	Yes		
FY2007(4)			AFMC/OO-ALC	OPT/FFP	MTC/DAYTON, OH/// NORTHROP-GRUMMAN/ BUFFALO, NY	Apr-07	Oct-08	Yes		
f. CONCEALMENT, COUNTERMEASURES, AND DECOY (CCD) SYSTEMS										
FY2006(11)			11WING	MIPR/FFP	ARMY/MULTIPLE/WHITE SANDS, NM	Mar-06	May-06			
		<b>P-1 ITEM NO</b> 28			<b>PAGE NO:</b> 121			Page 6 of 10		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(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	UNKNOWN	Mar-07	Jun-08	Yes		
h. URBAN TARGET COMPLEX										
FY2006			11WING	MIPR/FFP	AIR FORCE/ 98 RANGE WING/ NELLIS AFB, NV	Mar-06	Mar-07			
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-09	Yes		
FY2009			11WING	MIPR/FFP	AIR FORCE/ 98 RANGE WING/ NELLIS AFB, NV	Jan-09	Jun-10	Yes		
i. LASER EVALUATION SCORING SYSTEM (LESS)										
FY2006			HQ ACC	MIPR/FFP	NAVY/NAVY/ PT MUGU, CA	Mar-06	Feb-07			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
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	
j. CONNECTIVITY OF JOINT COMMON GROUND STATION AND J-STARS										
FY2006			AFMC/OO-ALC	MIPR/CPFF	ARMY/705 EXS/KIRTLAND AFB, NM	Mar-06	Sep-06			
k. TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED)										
FY2006			11WING	MIPR/CPFF	ARMY/ARMY/UNITECH SOLUTIONS/ORLANDO, FL	Mar-06	Jan-07			
FY2007			11WING	MIPR/CPFF	ARMY/ARMY/UNITECH SOLUTIONS/ORLANDO, FL	Mar-07	Jan-08	Yes		
I. MARITIME THREAT SYSTEMS										
FY2007			11WING	MIPR/FFP	NAVY/CORNICTEC/ ELLICOTT, MD // ARGON ST/ FAIRFAX, VA	Jan-07	Jun-08			
FY2008			11WING	MIPR/FFP	NAVY/CORNICTEC/ ELLICOTT, MD // ARGON ST/ FAIRFAX, VA	Jan-08	Jun-09	Yes		
FY2009			11WING	MIPR/FFP	NAVY/CORNICTEC/ ELLICOTT, MD // ARGON ST/ FAIRFAX, VA	Jan-09	Jun-10	Yes		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
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	
m. GPS DENIED ENVIRONMENT										
FY2006			11WING	MIPR/FFP	NAVY/ATSO/PT MUGU, CA// TMC/LAS CRUCES, NM	Apr-06	Mar-07			
FY2007			11WING	MIPR/FFP	NAVY/ATSO/PT MUGU, CA// TMC/LAS CRUCES, NM	Jan-07	Jun-08			
5. RED INTEGRATED AIR DEFENSE										
RED INTEGRATED AIR DEFENSE										
FY2006			AFMC/OO-ALC	MIPR/FFP	ARMY/SRC/HUNTSVILLE, AL	Mar-06	May-08			
6. RED FLAG AK-PARC UPGRADES										
RED FLAG AK-PARC UPGRADES										
FY2007(13)			HQ PACAF	MIPR/FFP	NAVY/UNKNOWN	Mar-07	Sep-07	Yes		
<b>Remarks:</b>										
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.										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(1) P5CTS: The basic contract (with 10 year option) was awarded to Cubic Defense Systems, San Diego, CA on 3 Jun 03. DRS Technologies, Buffalo, NY is a subcontractor.</p> <p>(2) Joint Advanced Weapons Scoring System (JAWSS) procured by Naval Warfare Assessment Station, Corona, CA, and Naval Air Warfare Center, Point Mugu, CA.</p> <p>(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.</p> <p>(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.</p> <p>(5) Mini-MUTES: Basic contract was awarded to Harris Corporation, Melbourne, FL on 28 Jul 1997.</p> <p>(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.</p> <p>(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.</p> <p>(8) IO vans: Multiple contractors include: EWA GSI - San Antonio, TX; L3/Titan - Melbourne, FL; Argon ST - Camarillo, CA</p> <p>(9) Multi-spectral: Multiple contractors include: DRS - Buffalo, NY; ATSO - Pt Mugu, CA; Argon ST - Camarillo, CA</p> <p>(10) BMS: Multiple Army contractors include: Ericsson Microwave Systems, Gothenburg, Sweden; General Dynamics AIS Div, Tempe, AZ</p> <p>(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.</p> <p>(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</p> <p>(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 &amp; Materials, MIPR, etc.; contract vehicles include Design and Engineering Support Program II (DESP II), FA8222-05-D-0001 Task Order 33; other contractors TBD.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$0	\$3,392	\$10,700	\$69,791	\$73,362	\$21,755	\$36,622	\$32,251
<p><b>Description:</b></p> <p>National Security Strategy (NSS) requires the US to maintain sufficient nuclear forces to deter any foreign leadership with access to strategic nuclear forces from acting against US vital national interests. A key element of the NSS is strategic deterrence strategy. 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.</p> <p>The Minimum Essential Emergency Communications Network (MEECN) systems provide that assured communications connectivity between the President and the strategic nuclear forces in stressed environments.</p> <p>GROUND ELEMENT MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN) SYSTEM (GEMS): GEMS replaces Air Combat Command (ACC) and Air Mobility Command (AMC) fixed and deployable communications elements for bomber, tanker, reconnaissance, and other alert communications facilities supporting both inter-site and intra-site strategic Command, Control, and Communications (C3) requirements. Nuclear Command and Control Technology Performance Criteria requires that communication facilities with strategic responsibilities receive Emergency Action Messages (EAMs) and function as part of the Nuclear Command System (NCS). GEMS will be comprised of Military Strategic, Tactical and Relay (MILSTAR) satellite Extremely High Frequency/Advanced EHF (EHF/AEHF), Very Low Frequency/Low Frequency (VLF/LF), Ultra High Frequency (UHF), and aircrew alerting components. These components will provide secure, survivable inter-site, intra-site, and mobile communications to bomber, tanker, reconnaissance, and other communications facilities with strategic responsibilities. The EHF communications path is used to support intelligence, operations plan execution, command and control, employment of nuclear forces, and weather and missile warning operations. FY08 funding represents implementation of a restructured program to meet Air Force planning and priorities. Development funding is in Program Element 0303131F, Minimum Essential Emergency Communications Network (MEECN).</p>								
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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													
SATELLITE SIMULATOR (SATSIM)	A						\$3,392						
GEMSTERMINAL	B									\$10,700			\$69,791
TOTALS:							\$3,392			\$10,700			\$69,791

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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									
SATELLITE SIMULATOR (SATSIM)									
FY2007			AFMC/ESC	SS/FFP	LINCOLN LABS/BEDFORD, MA	May-07	Feb-08	Yes	
GEMS TERMINAL									
FY2008(1)			AFMC/ESC	OPT/FFP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	May-08	Aug-08	No	Apr-08
FY2009(1)			AFMC/ESC	OPT/FFP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Jan-09	Apr-09	No	Apr-08
<b>Remarks:</b>									
(1) Base contract, Rockwell Collins, #FA872605-D-0003, awarded 16 Jun 05									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$4,457	\$4,632	\$7,421	\$7,805	\$8,363	\$8,493	\$8,662	\$8,832

**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.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b>					
<p>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.</p>					
<p>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.</p>					
<p>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.</p>					
<p>2. HQ AIR INTELLIGENCE AGENCY SUPPORT: AIA 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.</p>					
<p>a. TELECOMMUNICATIONS MONITORING ASSESSMENT PROGRAM (TMAP): No FY08 funding requested.</p>					
<p>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.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b>					
<p>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.</p> <p>a. ELECTRONIC COMBAT (EC) ANALYST NETWORK: FY08 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.</p> <p>b. COMBAT ANALYSIS SYSTEM: FY08 funding provides field commander support systems, including automated support systems for IO training.</p> <p>c. FIELD COMMANDERS SUPPORT: FY08 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).</p> <p>d. COMPUTER TRAINING SIMULATION: FY08 funding provides for computer hardware, which hosts IO planning analysis tools used for training at centers worldwide.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b>  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. Beginning in FY08 funds to support SENSOR HARVEST will be requested as a separate subproject in this P-1 line; Sensor Harvest funds were previously requested as part of TMAP request under AIA.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFIOC SUPPORT			{\$1,782,000}		{\$1,865,000}		{\$5,538,000}		{\$5,677,000}
C2W OPS SUPPORT	A						\$362,000		\$374,000
IO TECHNOLOGY ALLIANCE	A						\$456,000		\$457,000
OFFENSIVE IW (IW SUPPORT)	A		\$341,000		\$357,000		\$3,161,000		\$3,189,000
EWIR	A		\$1,441,000		\$1,508,000		\$1,559,000		\$1,657,000
HQ AIA			{\$1,396,000}		{\$1,428,000}		{\$207,000}		{\$416,000}
TMAP	A		\$1,396,000		\$1,428,000				
IO PLANNING TOOLS	A						\$207,000		\$416,000
JIOC			{\$1,279,000}		{\$1,339,000}		{\$1,366,000}		{\$1,400,000}
EC ANALYST NETWORK	A		\$340,000		\$344,000		\$355,000		\$356,000
COMBAT ANALYSIS SYSTEM	A		\$544,000		\$574,000		\$584,000		\$586,000
FIELD COMMANDERS SUPPORT	A		\$130,000		\$110,000		\$114,000		\$134,000
COMPUTER TNG SIM	A		\$139,000		\$183,000		\$183,000		\$183,000
IO RED TEAM SUPPORT	A		\$126,000		\$128,000		\$130,000		\$141,000
AFIAA							{\$310,000}		{\$312,000}

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SENSOR HARVEST	A						\$310,000		\$312,000
<b>TOTALS:</b>			\$4,457,000		\$4,632,000		\$7,421,000		\$7,805,000

**Remarks:**  
Cost information is in actual dollars.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$12,366	\$31,834	\$27,798	\$29,744	\$40,321	\$39,457	\$40,417	\$40,093
<p><b>Description:</b></p> <p>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.</p> <ol style="list-style-type: none"> <li>1. <b>CARGO MOVEMENT OPERATIONS SYSTEM (CMOS):</b> 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. FY08 funds procure end-of-service-life replacement hardware to support contingency operations in a sustainment posture. Funding mitigates increased capability demands on older hardware and supports deployable CMOS hardware and associated Automatic Identification Technology (AIT). FY08 funds will also enable the Air Force to complete Blocks 4 &amp; 5 of the US Army's Transportation Coordination Automated Information for Movement System II (TC-AIMS II) program. Air Force synergy completing this important program will provide critical system enhancements to provide Joint Services comprehensive theater distribution and traffic management capabilities.</li> <li>2. <b>FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS):</b> 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</li> </ol>								
	<b>P-1 ITEM NO</b> 31		<b>PAGE NO:</b> 135		Page 1 of 3			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS			
<b>Description (continued):</b> critical warfighting commodity; On-Line Transaction Processing capability to reduce accounting errors in a \$4.0 billion annual business; mitigating personnel 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. FY08 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 the foundation for the Air Force's Planning, Programming, Budgeting, and Execution System. This system, being developed using the spiral development approach and integrated into the GCSS-AF architecture, currently includes: Enterprise Data View and Budget Formulation Increments. The FIRST deployment is to provide an integrated, modern, and seamless financial management system that enables authorized users from Headquarters US Air Force to plan, program, and execute budgets down to base level. The Enterprise Data View (EDV) and Commanders Resource Integration System (CRIS) migration to the GCSS-AF Integrated Framework (IF), to develop a consolidated data warehousing solution, requires additional Business Intelligence (BI) tools to support data query and extraction capability for the 13,500 registered users of EDV-CRIS. FIRST is in post Milestone B and conducting development of Budget Formulation capabilities. The Enterprise Data View increment is in sustainment. Each incremental development meets the requirements for Chief Financial Officer Act compliance and DOD's Business Enterprise Architectures. FY08 funds procure hardware Test and Deployment Range (TDR) and licenses for deployment of the FIRST Budget Formula increment. Development funding for FIRST is in Program Element 0901538F, Financial Management Information Systems Development.					
4. DEFENSE ENTERPRISE ACCOUNT 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, 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, and AF Working Capital Fund (AFWCF) management. DEAMS will be compliant with the Clinger-Cohen					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS			
<b>Description (continued):</b> Act, Business Enterprise Architecture (BEA), and integrate into Global Combat Support Systems-Air Force (GCSS-AF). The COTS product is Joint Financial Management Improvement Program (JFMIP)-compliant. DEAMS will support elimination of unnecessary duplicative systems. DEAMS provides the capability to be utilized by other services within the DoD. Additionally, DEAMS will continue to incorporate legacy systems as required and establish a financial enterprise data warehouse capability for the Air Force. FY08 funds procure 20 Oracle developer licenses. Development funding for DEAMS is in Program Element 0901538F, Financial Management Information Systems Development.					
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. FY08 funds procure development hardware, application software and associated licenses, and peripherals to support deployment. Development funding for ECSS is in Program Element 0708610F, Logistics Information Technology.					
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 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. FY08 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.					
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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CARGO MOVEMENT OPERATIONS SYSTEM (CMOS)	A		\$468		\$511		\$878		\$1,094
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)	A		\$8,658		\$9,279		\$3,073		\$2,667
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)	A		\$739		\$782		\$813		\$835
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS)	A						\$38		\$1,521
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)	A		\$2,501		\$9,560		\$10,564		\$12,907
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE	A				\$11,702		\$12,432		\$10,720
<b>TOTALS:</b>			\$12,366		\$31,834		\$27,798		\$29,744

**Remarks:**

Cost information is in thousands of dollars.

**P-1 ITEM NO**  
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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)(4)										
FY2006(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-06	Aug-06			
FY2007(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-07	Aug-07	Yes		
FY2008(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-08	Aug-08	Yes		
FY2009(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-09	Aug-09	Yes		
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)										
FY2006(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Mar-06	Apr-06			
FY2007(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-06	Feb-07			
FY2008(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-07	Feb-08	Yes		
FY2009(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-08	Feb-09	Yes		
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)										
FY2006(3,7)			11WING	OPT/CPAF	MULTIPLE	May-06	Feb-07			
FY2007(3,7)			11WING	OPT/CPAF	MULTIPLE	May-07	Feb-08	Yes		
<b>P-1 ITEM NO</b> 31		<b>PAGE NO:</b> 139			Page 1 of 3					

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(3,7)			11WING	OPT/CPAF	MULTIPLE	May-08	Feb-09	Yes		
FY2009(3)			11WING	OPT/CPAF	MULTIPLE	May-09	Feb-10	Yes		
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS)										
FY2008(6)			11WING	OPT/FFP	ORACLE/RESTON, VA	Dec-07	Jan-08	Yes		
FY2009(6)			11WING	OPT/FFP	ORACLE/RESTON, VA	Dec-08	Jan-09	Yes		
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)										
FY2006(4)			AFMC/MSG	C/FFP W/OPT	ORACLE/RESTON, VA	Oct-05	May-07			
FY2007(4)			AFMC/MSG	OPT/FFP	ORACLE/RESTON, VA	May-07	May-08	Yes		
FY2008(4)			AFMC/MSG	OPT/FFP	ORACLE/RESTON, VA	May-08	May-09	Yes		
FY2009(4)			AFMC/MSG	OPT/FFP	ORACLE/RESTON, VA	May-09	May-10	Yes		
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2007(5)			AFMC/ESC	OPT/PAF W/OPT	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-06	Jan-07			
FY2008(4)			AFMC/ESC	OPT/FFP	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-07	Dec-07	Yes		
FY2009(5)			AFMC/ESC	OPT/FFP	LOCKHEED MARTIN CORPORATION/ ENDICOTT, NY	Dec-08	Dec-08	Yes		
<b>Remarks:</b>										
Quantity/unit costs vary depending on site configuration.										
(1) Multiple contracts to include: FY04 Automatic Identification Technology III contract with AIT III Intermecc 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.										
(2) 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.										
(3) Options to multiple contracts to include the following companies: Minerals Management Service-Gov Works, Herndon, VA; GTSI - Chantilly, VA. Award/Delivery dates represent the date of first award/delivery.										
(4) 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 September 6, 2006. Current GAO protest anticipated resolution in Mar 2007.										
(5) GCSS-AF contract F01630-96-d-004 awarded 15 Aug 96 with 10 option years and an awarded two-year extension.										
(6) DEAMS contractor is Oracle, in Reston, VA.										
(7) Options to purchase Oracle EPB user licenses utilizing GSA to include maintenance: GSA Huntsville, Al.; Mythics Inc. Virginia Beach, VA.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$40,413	\$23,467	\$22,702	\$22,677	\$29,232	\$27,258	\$27,845	\$28,266

**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. Starting in FY08, enhanced force level capabilities will be provided through the Applications Development project and unit level capabilities through the Unit Level project within Program Element 0207410F, Air & Space Operations Center (AOC).

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 FY08 funds procure 1) a full complement of fully configured equipment for initial unit-level operations installations at a minimum of one Air National Guard site; 2) fully configured hardware upgrades for fielded force and unit level (operations and intelligence) installations necessary to sustain operations and to support fielding of force level capabilities; and 3) required software licenses, Type 1 training, Interim Contractor Support (ICS), contract engineering and System Program Office support associated with the fielding of TBMCS Force Level and Unit Level spiral software releases.

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TBMCS				{21,759}			{11,181}			{12,381}			{12,698}
FORCE	A			\$10,762			\$5,837			\$6,334			\$6,541
UNIT	A			\$8,366			\$3,941			\$4,614			\$4,721
CIS (INTEL)	A			\$2,631			\$1,403			\$1,432			\$1,436
COTS SOFTWARE LICENSES				\$5,617			\$5,268			\$5,413			\$5,630
TYPE 1 TRAINING (1)				\$5,512			\$1,785			\$1,275			\$675
INTERIM CONTRACTOR SUPPORT (ICS) (1-2)				\$1,225			\$525			\$597			\$615
SYSTEM ENGINEERING				\$2,744			\$1,969			\$1,451			\$1,495
PROGRAM SUPPORT				\$3,556			\$2,739			\$1,585			\$1,565
<b>TOTALS:</b>				\$40,413			\$23,467			\$22,702			\$22,677

**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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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Feb-06	Apr-06			
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07			
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-07	Feb-08	No	Nov-07	
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	No	Nov-08	
UNIT										
FY2006(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Feb-06	Apr-06			
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07			
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-07	Feb-08	No	Nov-07	
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	No	Nov-08	
CIS (INTEL)										
FY2006(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Feb-06	Apr-06			
FY2007(1-3)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-06	Feb-07			
		<b>P-1 ITEM NO</b> 32			<b>PAGE NO:</b> 144			Page 1 of 2		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-07	Feb-08	No	Nov-07	
FY2009(1-4)			AFMC/ESC	OTH/FFP	MULTIPLE	Dec-08	Feb-09	No	Nov-08	
<b>Remarks:</b>  (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.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM				
	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$21,124	\$25,524	\$43,659	\$35,286	\$53,646	\$29,015	\$22,374	\$31,722
<p><b>Description:</b></p> <p>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 Coalition/Joint Force Air Component Commander (C/JFACC) for planning, executing and assessing theater-wide air and space operations. The C/JFACC provides air and space support to the Coalition/Joint Forces Commander (C/JFC) by coordinating, deconflicting and assessing the progress of various weapon systems to advance the C/JFC's campaign. The C/JFACC employs the weapon system to plan, execute and assess theater-wide air and space operations. The AOC-WS develops operational strategy and planning documents. The weapon system also disseminates tasking orders, executes day-to-day peacetime and combat air and space operations, and provides rapid reaction to immediate situations by exercising positive control of friendly forces. In order to support the C/JFACC mission, the program fields to other, supporting C2 locations. In prior budget years the AOC-WS was referred to as the Air Operations Center (AOC).</p> <p>1. AOC-WS PROGRAM: The AOC-WS program provides system hardware, software, technical documents and technology refresh to standardize and sustain the weapon system. The program consists of Falconer AOCs, Tailored Falconers, Functional AOCs, and Support entities. Tailored Falconers, Functional AOCs, and Support entities come in different configurations to meet the mission requirements of the theater, Combatant Commander, or specialized support. The program will upgrade all sites to a standard AOC-WS configuration according to mission. This will also provide a single integrated technical manual package to the user. Increment 10.1 deliveries include initial hardware/software procurement, technical manuals, , and required technical refresh. These deliveries are fielded in priority order to critical AOCs to include Falconers, Functionals, Tailored Falconers, and AOC Support entities. Development funds are in Program Element 0207410F, Air &amp; Space Operations Center (AOC).</p> <p style="margin-left: 40px;">a. INCREMENT FIELDING: FY08 funding will continue standardization of the remaining AOC entities to ensure standardization throughout the weapon system. This includes fielding common infrastructure to support the 10.1 baseline and critical capabilities that provide 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 the Component Numbered Air Force Warfighting Headquarters construct supporting Operations IRAQI</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM			
<b>Description (continued):</b> FREEDOM and ENDURING FREEDOM to ensure development and execution of Air Tasking Order and time sensitive targeting to reduce loss of life to friendly forces. The AOC-WS directly supports Operation NOBLE EAGLE to ensure C2 and ISR support for Homeland Defense.  b. TECH REFRESH: FY08 funds will be used to provide technical refresh to currently fielded Falconers, Functionals, Tailored Falconers, and AOC Support elements. The AOC-WS program must continue to update information technology equipment to keep pace with AF and joint service C2 systems employed in the AOC.  c. TECHNICAL DOCUMENTATION: FY08 funds will be used to develop and procure standardized flight manuals that support equipment operations, training, and maintenance. Technical documentation provides standardized operational, maintenance, and support manuals to ensure equipment meets operational availability for 24/7 operations and operators can effectively use capabilities provided  d. PROGRAM SUPPORT: FY08 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 FY08 funding requested.  3. AOC MULTIFUNCTION INFORMATION DISTRIBUTION SYSTEM LOW VOLUME TERMINAL: No FY08 funding requested.  In FY07 AIR AND SPACE OPERATIONS CENTER-WEAPON SYSTEM received a \$0.5M Congressional add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR AND SPACE OPERATIONS CENTER WEAPON SYSTEM
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AOC-WS PROGRAM				{19,610}			{22,850}			{43,659}			{35,286}
INCREMENT FIELDING	A			\$5,152			\$14,972			\$29,059			\$21,486
TECHNICAL REFRESH	A			\$7,358			\$3,812			\$11,700			\$10,900
TECHNICAL DOCUMENTATION	A			\$3,100			\$1,340			\$1,200			\$1,200
PROGRAM SUPPORT	A			\$4,000			\$2,726			\$1,700			\$1,700
CAOC-X	A			\$1,514			\$2,174						
AOC MULTIFUNCTION INFO DISTR SYSTEM LOW VOL TERM	A						\$500						
<b>TOTALS:</b>				\$21,124			\$25,524			\$43,659			\$35,286

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
AOC-WS PROGRAM										
INCREMENT FIELDING										
FY2006(1-3)			AFMC/ESC	MIPR/C/IDIQ	MULTIPLE	Aug-06	Dec-06			
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	Jun-07			
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-07	Jun-08	Yes		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-08	Jun-09	Yes		
TECHNICAL REFRESH										
FY2006(1-3)			AFMC/ESC	MIPR/C/IDIQ	MULTIPLE	Sep-06	Dec-06			
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	Sep-07			
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Jan-08	Jun-08	Yes		
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Feb-09	Jun-09	Yes		
TECHNICAL DOCUMENTATION										
FY2006(1-3)			AFMC/ESC	MIPR/C/IDIQ	MULTIPLE	Sep-06	Dec-06			
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Nov-06	May-07			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-07	May-08	Yes	
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Dec-08	May-09	Yes	
PROGRAM SUPPORT									
FY2006(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Sep-06	Dec-06		
FY2007(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-06	Sep-07		
FY2008(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-07	Sep-08	Yes	
FY2009(1-3)			AFMC/ESC	MIPR/OPT/IDIQ	MULTIPLE	Oct-08	Sep-09	Yes	
CAOC-X									
FY2006(1,3-4)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Feb-06	May-06		
FY2007(1,3-4)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Feb-07	May-07	Yes	
AOC MULTIFUNCTION INFO DISTR SYSTEM LOW VOL TERM									
FY2007(5)			AFMC/ESC	OTH/OTH	UNKNOWN	May-07	Jul-07	Yes	
<b>Remarks:</b>									
Multiple award delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.									
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(1) Quantity and Unit Cost vary due to unique AOC site configurations and capabilities.</p> <p>(2) Contractors for the AOC WS, Increment Fielding, Technical Refresh, Technical Documentation, and Systems Program Support include: ITSP BRIDGE Contract, Gemini Ind, Inc, Billerica, MA; FA8721-06-F-8007 Awarded Jan 2006, 1 Year + 6 mos Option; Professional Assistance &amp; Support Services (PASS) - The Air and Space Operations Center Weapon System selected a Weapon System Integrator (Lockheed Martin IS&amp;S) through full and open competition, to ensure system of systems perspective and systems engineering rigor.</p> <p>(3) Multiple Purchase Requests &amp; Military Interdepartmental Purchase Requests (PR's/MIPRS) will be executed by multiple agencies to procure hardware on CPAF and IDIQ contracts.</p> <p>(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.</p> <p>(5) Contract information TBD.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$341,750	\$332,536	\$323,347	\$364,445	\$474,462	\$541,257	\$561,411	\$608,274
<p><b>Description:</b></p> <p>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, Information System Security Program (ISSP), Joint Network Management System (JNMS), AF Network Operations and Security Center (AFNOSC), Air Force Directory Service (AFDS), Public Key Infrastructure (PKI), Common Access Card (CAC), common servers for the Global Combat Support System (GCSS-AF) integration framework infrastructure, Operationalizing and Professionalizing the Network (OPTN), and AF financial management Service-wide Support.</p> <p>1. <b>COMBAT INFORMATION TRANSPORT SYSTEM (CITS):</b> 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:</p> <p style="margin-left: 40px;">a. <b>INFORMATION TRANSPORT SYSTEM (ITS):</b> ITS product area implements and upgrades a broad-band, fiber-optic digital information transport network to provide near-instantaneous information transfer for each base and selected geographically separated units. ITS provides reliable and survivable information transport and will have sufficient capacity to meet the classified and unclassified data, voice, video, imagery and telemetry requirements at each fixed location. Most Air Force bases have an existing infrastructure that is incapable of supporting the current and future communications needs of the warfighter. Initial capability will include data transport with other information types, incorporated as technology and funding permit. Integration of AF and joint information operations will allow immediate threat awareness and impact, intelligence gathering and assessments and</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> other relevant situational awareness of the battlespace. 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. FY08 funds direct mission support and procures ITS installation projects for the highest priority bases. 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 for base Network Control Centers, MAJCOM Network Operations and Security Centers, and the Air Force Network Operations and Security Center (AFNOSC). 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. NM/ND provides the information assurance, network management and telephonic management and protection tools for each Air Force base 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 and MAJCOM-level operations centers and provide critical training and support needed to fight cyber threats. FY08 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. Through these efforts NM/ND is putting the leading edge network infrastructure in place, which is critical for AFNetOps Transformation to include the implementation of the Integrated NOSC construct.  c. VOICE SWITCHING SYSTEM (VSS): The VSS product area provides technology upgrades, line expansion to existing base telephone systems and new commercial-off-the-shelf (COTS) digital switching equipment to replace telephone switches no longer capable of meeting mission requirements. Increased capacity and standard interfaces of new or upgraded equipment (dial central offices, information transport nodes, remote switching centers, private branch exchanges, etc.) improves intrabase connectivity and capability to move information worldwide. Funding ensures bases will have this initial capability and plans for new mission growth and increasing demands for fax machine and secure telephone dial-in connectivity. 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.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> FY08 funding procures upgrades to six regional Multifunction Switches that will eliminate local base switches reducing manpower and operations and maintenance costs.					
2. INFORMATION SYSTEM SECURITY PROGRAM (ISSP): FY08 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): JNMS is a joint communications planning and management system for all services supporting Combatant Commanders, Joint Task Force Commanders and Joint Special Operations Task Force Commanders. JNMS provides communications planners with capabilities to conduct high-level planning (war planning), detailed networking planning and engineering, network monitoring, control and reconfiguration, spectrum planning and management and enables security of systems and networks supporting joint operations. JNMS will operate on the SIPRNET with a NIPRNET status feed through one-way guard. The system replaces the Joint Information Infrastructure Control System-Deployed that was fielded as proof of concept. JNMS will be used to establish network connectivity between all services in the theater of operations. It also allows for crisis action planning prior to deployment to include planning for deploying mobile networks and then activating and redeploying to meet changing mission requirements. FY08 funds procure direct mission support and installation of critical information equipment capabilities for worldwide joint network operations.					
4. AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC): No FY08 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 Air Force Personnel Center (AFPC), 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-					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> Portal. AFDS ensures that AF user identities are common and synchronized across the 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 (GCSS-AF/IF) and MAJCOM's Active Directory (AD) network environments. AFDS also provides GAL Distribution Services to the warfighter for the USAF and DoD email systems. The warfighter is able to easily communicate with other warfighters as a result. AFDS has connections on the unclassified and classified network with all MAJCOMs, AF components in the Pentagon; USSTRATCOM, USTRANSCOM, the AF component of CENTCOM and NORTHCOM. 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 utilize 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 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. FY08 funding procures servers and equipment supporting enterprise identity management and the e-mail GAL.  6. PUBLIC KEY INFRASTRUCTURE (PKI): No FY08 funding requested.  7. COMMON ACCESS CARD (CAC): No FY08 funding requested.  8. GLOBAL COMBAT SUPPORT SYSTEM-AIR FORCE (GCSS-AF): No FY08 funding requested.  9. AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP): No FY08 funding requested.  10. SERVICE-WIDE SUPPORT: FY08 funds support the Air Force financial management (FM) transformation of services and implementation/standup of the AF Financial Services Center (AFFSC) and Center of Expertise. These FM initiatives will employ current technology to increase decision support capability, decrease transaction processing time, reduce operating cost and improve financial accountability. This effort will adapt AF budget, cost and financial services to the Service Delivery Model (SDM).					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT INFORMATION TRANSPORT SYSTEM (CITS)			{\$320,059}		{\$322,011}		{\$307,007}		{\$351,023}
INFORMATION TRANSPORT SYSTEM (ITS)	A		\$139,698		\$144,346		\$144,650		\$157,329
NETWORK MANAGEMENT/NETWORK DEFENSE (NM/ND)	A		\$155,525		\$151,086		\$152,239		\$168,348
VOICE SWITCHING SYSTEM (VSS)	A		\$24,836		\$26,579		\$10,118		\$25,346
INFORMATION SYSTEMS SECURITY PROGRAM	A		\$348		\$1,995		\$4,131		\$7,152
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)	A		\$3,492		\$6,786		\$4,471		\$5,214
AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC)	A				\$740				
AIR FORCE DIRECTORY SERVICE (AFDS)	A		\$663		\$1,004		\$1,038		\$1,056
PUBLIC KEY INFRASTRUCTURE (PKI)	A		\$3,129						
COMMON ACCESS CARD (CAC)	A		\$1,347						
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE			{\$9,812}						
GCSS-AF ARCHITECTURE	A		\$9,812						

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP)	A		\$2,900						
SERVICE-WIDE SUPPORT	A						\$6,700		
<b>TOTALS:</b>			\$341,750		\$332,536		\$323,347		\$364,445

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
COMBAT INFORMATION TRANSPORT SYSTEM (CITS)									
INFORMATION TRANSPORT SYSTEM (ITS)									
FY2006(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05		
FY2007(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Dec-06	Feb-07		
FY2008(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-07	Feb-08	Yes	
FY2009(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-08	Feb-09	Yes	
NETWORK MANAGEMENT/NETWORK DEFENSE (NM/ND)									
FY2006(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05		
FY2007(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06		
FY2008(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-07	Dec-07	Yes	
FY2009(1-2)			AFMC/ESC	DO/FFP	MULTIPLE	Nov-08	Dec-08	Yes	
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
VOICE SWITCHING SYSTEM (VSS)										
FY2006(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Jan-06	Mar-06			
FY2007(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Nov-06	Dec-06			
FY2008(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-07	Mar-08	Yes		
FY2009(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-08	Mar-09	Yes		
INFORMATION SYSTEMS SECURITY PROGRAM										
FY2006(1,5)			AFMC/ESC	DO/FFP	MULTIPLE	Aug-06	Oct-06			
FY2007(1,5)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-07	Jun-07			
FY2008(1,5)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-08	Jun-08	Yes		
FY2009(1,5)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-09	Jun-09	Yes		
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)										
FY2006(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Mar-06	May-06			
FY2007(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Mar-07	May-07	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-07	Feb-08	Yes		
FY2009(1-2)			HQ AFCA	DO/FFP	MULTIPLE	Dec-08	Feb-09	Yes		
AIR FORCE NETWORK OPERATIONS AND SECURITY CENTER (AFNOSC)										
FY2007			HQ ACC	C/FFP	UNKNOWN	Mar-07	May-07	Yes		
AIR FORCE DIRECTORY SERVICE (AFDS)										
FY2006(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Jul-06	Aug-06			
FY2007(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Jul-07	Aug-07	Yes		
FY2008(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Nov-07	Feb-08	Yes		
FY2009(1-2)			AFMC/SSG	DO/FFP	MULTIPLE	Nov-08	Feb-09	Yes		
PUBLIC KEY INFRASTRUCTURE (PKI)										
FY2006(1,3)			AFMC/ESC	DO/FFP	MULTIPLE	Dec-05	Jan-06			
COMMON ACCESS CARD (CAC)										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006(1)			AFMC/ESC	DO/FFP	MULTIPLE	Mar-06	Jul-06			
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE										
GCSS-AF ARCHITECTURE										
FY2006(1,4)			AFMC/SSG	MIPR/IDIQ	GSA/MULTIPLE	Nov-05	Dec-05			
AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP)										
FY2006			HQAFRC	C/FFP	UNKNOWN	Mar-07	Apr-07	Yes		
SERVICE-WIDE SUPPORT										
FY2008			11WING	C/FFP	UNKNOWN	Jan-08	May-08	Yes		
<b>Remarks:</b>										
<p>(1) Multiple award and delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.</p> <p>(2) Multiple contractors will be used to satisfy requirements. Contracts are typically, but not exclusively, accomplished via NETCENTS. CITS: Typical contractors include EDS, Herndon, VA; NG, McLean, VA; General Dynamics, Needham, MA; Avaya, St. Petersburg, FL; NexteraOne, Portland, OR; 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.</p> <p>(3) Multiple contractors will be used to satisfy requirements. Contracts are typically, but not exclusively, from the Standard Systems Group Commercial Information Technology-Product Area Directorate (CIT-PAD). PKI: typical vendors are Sun Microsystems, Palo Alto, CA, and Dell, Round Rock, TX.</p>										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(4) Multiple contractors will be used to satisfy requirements. Contracts are typically, but not exclusively, from the Standard Systems Group Commercial Information Technology-Product Area Directorate (CIT-PAD). GCSS typical vendors: ORACLE/AMARC, Davis Monthan AFB, AZ (PCO is DISA St Louis, MO).</p> <p>(5) Given the close linkage between CITS and ISSP, ISSP will be executed through the CITS contractors listed above.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> USCENTCOM				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$31,582	\$32,396	\$113,553	\$50,586	\$44,887	\$37,883	\$38,626	\$39,391
<p><b>Description:</b></p> <p>United States Central Command's (USCENTCOM) objectives are to maintain and enhance regional stability in the Middle East as well as engage in humanitarian and security assistance programs. Since USCENTCOM has the Middle East and its inherent peace problems as its Area of Responsibility (AOR), this Combatant Command is key with regard to the Global War on Terror. The Air Force (AF) is the executive agent for USCENTCOM which is geographically separated from its AOR by over 7,000 miles. To meet its mission responsibilities with this geographical handicap, USCENTCOM relies on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority. Funding in FY08 funds will significantly improve communications reliability, capacity, and security in a number of operating locations in Southwest Asia. Introduction of newer technology systems will reduce the Air Force's need to activate Guard and Reserve units to maintain and operate older, more manpower-intensive tactical communications systems. In FY08, an addition of \$78.0M in funds represents significant investment in communications and electronics equipment supporting Host Nation mandated moves and a critically needed renovation of USCENTCOM headquarters.</p> <p>1. <b>USCENTCOM COMMAND AND CONTROL SYSTEMS:</b> In FY08, \$46.0M of requested funds in this line item will provide for the outfitting of the to-be-relocated USCENTCOM forward deployed headquarters; per Host Nation request, the HQ will move from Camp Asalaya to Al Udeid Air Base. In addition to continued scheduled modernization of equipment in theater, the additional investment of funds will provide for move-related communications and command and control (C2) systems, including the Global Command and Control System (GCCS), classified and unclassified telephone switches, local area networking servers, information assurance tools, and enterprise software licenses.</p> <p>2. <b>JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE):</b> 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. FY08 funds provide the AF's proportional cost share required to procure C4 equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters. Equipment requirements are approved annually by the JCS and procurement for the AF share is executed by JCSE.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> USCENTCOM			
<b>Description (continued):</b>					
<p>3. AIR COMBAT COMMAND (ACC) COMMUNICATIONS: Central Air Forces (CENTAF) is the ACC component designated to support USCENTCOM operations in deployed theaters for the Air Force. FY08 funds provide for modernization and upgrade of communications and automation systems throughout the area of responsibility (AOR), to include but 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.</p>					
<p>4. USCENTCOM HEADQUARTERS: In FY08 the funds in this line item are specifically intended to procure communications infrastructure equipment for the critically needed total renovation and expansion of the USCENTCOM Headquarters Building at MacDill AFB, FL. Funds will procure a new commercial-class telephone switch and associated equipment, RED/BLACK phone system switches, radio room equipment, all local area network (LAN) infrastructure (routers, switches, etc.) to support unclassified and classified networks, Storage Area Network servers, and a complete audiovisual distribution system. Funding is critical to providing Commander, USCENTCOM, with a modern, state-of-the-art headquarters facility supporting all operations throughout the USCENTCOM area of responsibility.</p>					
<p>5. WARFIGHTING HEADQUARTERS ICE: No FY08 funding requested.</p>					
<p>In FY06, USCENTCOM received \$1.5M in additional funding under P.L. 109-234, the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.</p>					
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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

USCENTCOM

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
USCENTCOM COMMAND AND CONTROL SYSTEMS	A		\$3,103		\$3,330		\$50,045		\$3,557
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	A				\$3,438		\$3,860		\$4,260
ACC COMMUNICATIONS	A		\$26,979		\$25,628		\$27,270		\$28,574
USCENTCOM HEADQUARTERS RENOVATION	A						\$32,378		\$14,195
WARFIGHTING HEADQUARTERS ICE	A		\$1,500						
<b>TOTALS:</b>			\$31,582		\$32,396		\$113,553		\$50,586

**Remarks:**

Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
USCENTCOM COMMAND AND CONTROL SYSTEMS										
FY2006(1-2)			USCENTCOM	C/FFP	TELECOMMUNICATIONS SYSTEMS INC/ ANNAPOLIS, MD	Feb-06	Jun-06			
FY2007(2)			USCENTCOM	C/FFP	UNKNOWN	Feb-07	Jun-07	Yes		
FY2008(2)			USCENTCOM	C/FFP	UNKNOWN	Feb-08	Aug-08	Yes		
FY2009(2)			USCENTCOM	C/FFP	UNKNOWN	Feb-09	Aug-09	Yes		
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)										
FY2007(1-2)			11WING	C/FFP	MULTIPLE	Jan-07	Jun-07			
FY2008(2)			11WING	C/FFP	UNKNOWN	Jan-08	Aug-08	Yes		
FY2009(2)			11WING	C/FFP	UNKNOWN	Jan-09	Aug-09	Yes		
ACC COMMUNICATIONS										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006(1-2)			HQ ACC	C/FFP	MULTIPLE	Mar-06	Jul-06			
FY2007(1-2)			HQ ACC	C/FFP	MULTIPLE	Dec-06	Mar-07			
FY2008(2)			HQ ACC	C/FFP	UNKNOWN	Mar-08	Sep-08	Yes		
FY2009(2)			HQ ACC	C/FFP	UNKNOWN	Mar-09	Sep-09	Yes		
USCENTCOM HEADQUARTERS RENOVATION										
FY2008(2-3)			USCENTCOM	OTH/OTH	UNKNOWN	Dec-07	Mar-08	Yes		
FY2009(2-3)			USCENTCOM	OTH/OTH	UNKNOWN	Dec-08	Mar-09	Yes		
WARFIGHTING HEADQUARTERS ICE										
FY2006			AFMC/ESC	C/FFP	UNKNOWN	Mar-07	Feb-08	Yes		
<b>Remarks:</b>										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p>(1) Multiple contract awards for small acquisitions through different government contracts and contracting agencies, for example: 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: 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.</p> <p>(2) Quantity/unit costs vary because of different types/configurations of equipment being procured.</p> <p>(3) Multiple contract methods and types are expected to be utilized for the various sub-projects associated with this effort.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE BASED IR SENSOR PROGRAM SPACE				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$3,640	\$4,198	\$3,979	\$1,947	\$1,956	\$1,949	\$1,992	\$2,036
<p><b>Description:</b></p> <p>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.</p> <p>SBIRS MOBILE AND FIXED SITE COMMUNICATIONS/ELECTRONIC UPGRADES: FY08 funding procures DSP and SBIRS assets to maintain ongoing requirements for 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. This requirement is equivalent to a low cost modification line for aircraft programs.</p>								
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACE BASED IR SENSOR PROGRAM SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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			\$3,640			\$4,198			\$3,979			\$1,947
<b>TOTALS:</b>				\$3,640			\$4,198			\$3,979			\$1,947

**Remarks:**  
Total Cost information is in thousands of dollars.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: SPACE BASED IR SENSOR PROGRAM 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	
SBIRS MOBILE SYSTEM & FIXED SITE COMM ELECTRONIC UPGRADES										
FY2006(1-2)			AFSPC/SMC	MIPR/OTH	MULTIPLE	Aug-06	Jan-07			
FY2007(1-4)			AFSPC/SMC	OTH/CPFF	MULTIPLE	Oct-06	Mar-07			
FY2008(1-3,5)			AFSPC/SMC	OTH/CPFF	MULTIPLE	Jan-08	Jan-09	Yes		
FY2009(1-3,5)			AFSPC/SMC	OTH/CPFF	MULTIPLE	Jan-09	Jan-10	Yes		
<p><b>Remarks:</b></p> <p>(1) Unit costs and quantities vary due to multiple types of computer hardware being procured.</p> <p>(2) Procurement for SBIRS Mobile Site comm electronics upgrades will use a blanket purchase agreement (BPA) via DISA.</p> <p>(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.</p> <p>(4) FY07: \$3.673M is on Lockheed Martin EMD contract; the remainder will go on the DISA contract.</p> <p>(5) Procurement will include both Mobile System upgrade (on DISA contract) and Fixed Site upgrade (on EMD contract).</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$8,974	\$5,974	\$14,077	\$25,877	\$9,737	\$15,920	\$22,055	\$14,638

**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). FY08 GPS funding provides for increased anti-jam capabilities on GPS user equipment 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 0305164F, NAVSTAR Global Positioning System (User Equipment)(SPACE); GPS User Equipment is in Program Element 0603421F, NAVSTAR GPS III.

1. **PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR):** FY08 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 AF has lead service responsibility for DoD for PLGR procurement.

2. **KEY DATA LOADING INSTALLATION FACILITY (KLIF)/GPS SECURITY DEVICE:** FY08 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. FY08 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. Increased FY08 funding addresses technical problems and shortages with

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE			
<b>Description (continued):</b> production of Thermal Spray Kits (a government required anti-tamper measure) with the current commercial business model that delays SAASM receiver production.					
3. DEFENSE ADVANCED GPS RECEIVER (DAGR): DAGR, the follow-on to the PLGR, is the current generation self-contained handheld GPS receiver with precise positioning using SAASM. It is inter operable with existing PLGR interfaces and support equipment so present integration and support capabilities are minimally affected. DAGR is primarily used in the standalone mode but also is integrated in wheeled and tracked vehicles, in airborne and air-drop operations, and in weapons integration. The AF has lead service responsibility for DoD for DAGR procurement. FY08 funding procures military secure handheld GPS receivers (i.e., DAGRs).					
4. HANDHELD TESTING SUPPORT: FY08 funding provides testing support for user equipment. Testing includes engineering change proposals and product improvements for DAGR.					
5. OCS LAUNCH READINESS SUPPORT: This effort improves GPS Operational Control Segment (OCS) launch readiness. FY08 funding provides Launch, Anomaly and Disposal Operations (LADO) upgrades to address changes to the Air Force Space Control Network (AFSCN) Automated Remote Tracking Station (ARTS) interface, supports the Telecommunications Simulation Test Station (TSTS) at Cape Canaveral Air Force Station (CCAFS), and purchases the data rights to the underlying mathematical/computation algorithms used in the LADO mission planning COTS package.					
6. OCX MASTER CONTROL STATION (WITH SENSITIVE COMPARTMENTED INFORMATION FACILITY): No FY08 funding requested.					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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)				\$467			\$50			\$40			\$40
KLIF/GPS SECURITY DEVICE				\$3,459			\$1,915			\$4,441			\$3,366
DAGR	A			\$4,832			\$3,827			\$3,514			\$2,789
HANDHELD TESTING SUPPORT				\$216			\$182			\$182			\$182
OCS LAUNCH READINESS SUPPORT										\$5,900			
OCX MCS (W/SCIF)													\$19,500
<b>TOTALS:</b>				\$8,974			\$5,974			\$14,077			\$25,877

**Remarks:**  
Total Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 37		<b>PAGE NO:</b> 174	Page 1 of 1
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS 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	
DAGR										
FY2006(1)			AFSPC/SMC	OPT/FP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Mar-06	Oct-06			
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	Yes		
FY2009(1)			AFMC/SMC	OPT/FP	ROCKWELL COLLINS/ CEDAR RAPIDS, IA	Jan-09	Jun-09	Yes		
<b>Remarks:</b>  (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.										
			<b>P-1 ITEM NO</b> 37				<b>PAGE NO:</b> 175	Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$9,270	\$13,371	\$16,459	\$27,812	\$21,931	\$10,532	\$10,764	\$11,001
<p><b>Description:</b></p> <p>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).</p> <p>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.</p> <ol style="list-style-type: none"> <li>1. ICADS UPGRADE: FY08 funding purchases 4 antenna/receiver systems and 2 software development environment testbeds for ICADS Build 6.</li> <li>2. GNT UPGRADES: FY08 funding purchases 5 antenna/receiver systems and 2 software development environment testbeds for GNT Build 6.</li> <li>3. SPACE AND ATMOSPHERIC BURST REPORTING SYSTEM (SABRS): SABRS is the future neutron/gamma sensor that will fly as a secondary</li> </ol>								
	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 176		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE		
<b>Description (continued):</b> payload on a GEO satellite to replace the USNDS sensor payload on DSP satellites. SABRS integration funding is budgeted in Program Element 0305913F. FY08 funding procures necessary equipment for implementation of effort and selection of host platform.				
	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 177	Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ICADS UPGRADE	A		\$5,720		\$8,639		\$11,659		\$15,712
GNT UPGRADE	A		\$3,550		\$3,832		\$4,100		\$11,500
SABRS ON GEO HOST	A				\$900		\$700		\$600
TOTALS:			\$9,270		\$13,371		\$16,459		\$27,812

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM 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	
ICADS UPGRADE										
FY2006(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-05	Jun-07			
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	Yes		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-08	Jun-10	Yes		
GNT UPGRADE										
FY2006(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-05	Jun-07			
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	Yes		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ ALBUQUERQUE, NM	Dec-08	Jun-10	Yes		
SABRS ON GEO HOST										
		<b>P-1 ITEM NO</b> 38			<b>PAGE NO:</b> 179			Page 1 of 2		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NUDET DETECTION SYSTEM 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	
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	Yes		
FY2009(1-2)			AFSPC/SMC	MIPR/OTH/OTH	CLASSIFIED	Dec-08	Sep-10	Yes		
<p><b>Remarks:</b></p> <p>(1) Unit costs and quantities vary due to multiple types of computer hardware being procured.</p> <p>(2) The contract type to the Department of Energy Sandia National Laboratory is cost reimbursement based on a Work for Others agreement.</p>										
			<b>P-1 ITEM NO</b> 38			<b>PAGE NO:</b> 180	Page 2 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$50,251	\$84,971	\$50,268	\$66,282	\$63,527	\$66,160	\$67,459	\$68,796

**Description:**

The Air Force Satellite Control Network (AFSCN) is a global infrastructure of control centers, Remote Tracking Stations (RTS) and communications links that provide the highly reliable command, control and communications (C3) range systems required to support the nation's surveillance, navigation, communications and weather satellite operations. The AFSCN is the DoD common user network providing satellite 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 program systems. The AFSCN also provides mandatory launch and early orbit tracking operations in support of all major US launches. Development funding for AFSCN is in Program Element 0305110F, Satellite Control Network (SPACE).

This project procures integrated mission critical electronics and telecommunications equipment for aging C3 and range elements of the AFSCN. Principal efforts include:

1. NETWORK OPERATIONS UPGRADES: No FY08 funding requested.
2. RANGE AND COMMUNICATIONS UPGRADES: Several efforts are being implemented in order to improve and modernize the range and communications segment elements of the AFSCN, including integrated pre-deployment hardware/software validation, antenna replacements and equipment upgrades at the RTSs. These efforts significantly improve AFSCN capacity, reliability, data quality and ensure warfighter continued and upgraded access to real-time operational data. FY08 funds procure RTS block change equipment, replacement data link terminals, and associated communications equipment to continue the upgrades.
3. INTERIM SUPPLY SUPPORT: FY08 funds provide Interim Supply Support to include support services and initial spares under the Reformed Supply Support Process (a reengineering effort designed to form a partnership between government and industry that streamlines the weapon system spares

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE		
<b>Description (continued):</b> acquisition process) for the Satellite Control Network Contract and to transition to government supply support.  4. PROGRAM SUPPORT: FY08 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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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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													
NETWORK OPERATIONS UPGRADES	A			\$8,429			\$6,659						
RANGE & COMMUNICATIONS UPGRADES	A			\$32,336			\$70,231			\$38,575			\$55,506
INTERIM SUPPLY SUPPORT				\$2,363			\$1,710			\$5,349			\$4,541
PROGRAM SUPPORT				\$7,123			\$6,371			\$6,344			\$6,235
TOTALS:				\$50,251			\$84,971			\$50,268			\$66,282

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(1-2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Mar-06	Jul-06			
FY2007(1-2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Feb-07	Jun-07	Yes		
RANGE & COMMUNICATIONS UPGRADES										
FY2006(1-2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Mar-06	Aug-06			
FY2007(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Jan-07	May-07			
FY2008(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Dec-07	Apr-08	Yes		
FY2009(1-3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Dec-08	May-09	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<b>Remarks:</b>  (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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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$104,142	\$119,686	\$122,559	\$103,384	\$105,557	\$106,914	\$109,013	\$111,172

**Description:**  
 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. Many range assets are obsolete, unreliable, inefficient and costly to operate and maintain. Reliability has been a major issue due to reliance on equipment such as 25-year old computers, 1960s vintage high frequency (HF) transmitters, wire-wrap circuit boards, etc. This leads to costly use of redundant assets during launches and tests to ensure availability of range support.

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 replaces deficient, obsolete and difficult to sustain equipment with more efficient and reliable 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. Following are details of the FY08 program:

1. RANGE STANDARDIZATION and AUTOMATION Phase IIA: The RSA Phase IIA contract modernizes the control/display and communications segments to include: planning and scheduling, flight safety, digital telemetry, communications and weather equipment. FY08 funds pay for final integration,

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE			
<b>Description (continued):</b> testing and refinements to meet operational acceptance requirements for modernized planning and scheduling, flight safety, communications and weather systems, and Interim Contractor Support. FY08 is the final year of funding for the RSA Phase IIA program; further upgrades and replacement of obsolete control/display and communications equipment will occur through the ongoing spacelift range recapitalization effort described below.					
2. <b>SPACELIFT RANGE SYSTEM CONTRACT:</b> The SLRSC modernizes range instrumentation and implements proactive 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 increasing numbers of 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. The recapitalization projects are based on collection and analysis of RMA data, prioritization of deficiencies by the range operators, and conformance with the SLRS architecture to achieve the best overall return on investment.					
a. <b>MODERNIZATION EQUIPMENT:</b> FY08 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. FY08 funds also pay for shut down of legacy systems. Additionally, funds pay for Interim Supply Support (ISS), to include support services, spares transition packages, required reprocurement data, and transition common spares.					
b. <b>RECAPITALIZATION:</b> FY08 funds pay for recapitalization projects to include: upgrades to radar transmitters; replacement of radar site computers and peripherals; replacement of radar antenna feeds; upgrade of clock monitoring systems; upgrade of tracking station satellite communications; replacement of telemetry video distribution systems; replacement of high speed modems; refurbishment of high speed cameras; rehabilitation of analog telemetry recorders; replacement of lead air-filled cables; upgrade of spread spectrum analysis capabilities; upgrade of command destruct system antenna boresight capabilities; and, overhaul of cine-sextant tracking mounts. Additionally, FY08 funds pay for ISS to include: support services, spares transition packages, required reprocurement data, and transition common spares.					
3. <b>OTHER PROGRAM SUPPORT:</b>					
a. <b>PROGRAM SUPPORT:</b> FY08 funds support System Program Office activities to include, but not limited to: engineering, cost estimating, contract reconciliation, configuration management, information technology support, and other related program support.					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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													
RSA PHASE IIA				{\$18,446}			{\$18,866}			{\$11,200}			
MODERNIZATION EQUIPMENT	A			\$9,735			\$7,462			\$2,000			
INTERIM CONTRACTOR SUPPORT				\$8,331			\$11,404			\$9,200			
INITIAL SUPPLY SUPPORT				\$380									
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)				{\$66,936}			{\$83,887}			{\$91,459}			{\$82,684}
MODERNIZATION EQUIPMENT	A			\$27,929			\$37,126			\$37,289			\$14,300
RECAPITALIZATION				\$35,324			\$38,307			\$45,090			\$61,606
INITIAL SUPPLY SUPPORT							\$2,409			\$2,411			
RECAP INITIAL SUPPLY SUPPORT				\$3,683			\$6,045			\$6,669			\$6,778
PROGRAM SUPPORT				\$18,760			\$16,933			\$19,900			\$20,700
<b>TOTALS:</b>				\$104,142			\$119,686			\$122,559			\$103,384

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM 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	
SPACELIFT RANGE SYSTEM SPACE(1-3)										
RSA PHASE IIA										
MODERNIZATION EQUIPMENT										
FY2006(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEEDMARTIN/ SANTA MARIA, CA	Oct-05	Dec-05			
FY2007(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEEDMARTIN/ SANTA MARIA, CA	Oct-06	Dec-06			
FY2008(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEEDMARTIN/ SANTA MARIA, CA	Oct-07	Dec-07	Yes		
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)(3)										
MODERNIZATION EQUIPMENT										
FY2006(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/ CAPE CANAVERAL, FL	Oct-05	Feb-06			
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	Oct-07	Feb-08	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE
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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(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/CAPE CANAVERAL, FL	Oct-08	Feb-09	Yes	

**Remarks:**

- (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 and delivery date 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 FY08.
- (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.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$27,754	\$75,366	\$116,902	\$107,042	\$176,203	\$233,480	\$177,255	\$141,666
<p><b>Description:</b></p> <p>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.</p> <p>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 ten times more survivable, jam-resistant, worldwide, continuous secure communications supporting tactical warfighters. FY08 funds represent a one-time procurement of the Army-developed Advanced EHF upgrades, systems engineering, and program support for the twenty-six (26) Air Force terminals originally procured in FY99-01. This upgrade is critically important in order for these terminals to take advantage of the Extended Data Rate (XDR) capability at 8.0 Mbps available with Advanced EHF (AEHF). Currently, SMART-T terminals operate in Low Data Rate (LDR) mode at 2.4 Kbps and Medium Data Rate (MDR) mode at 1.5 Mbps over MILSTAR satellites. If the terminals are not upgraded, then they will have to operate at the lower data rates and will thus force all users on that net to operate at the lower data rate with adverse mission effects.</p> <p>2. SUPER HIGH FREQUENCY (SHF) TERMINALS: SHF 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. FY08 funds will be used to install a radome at Ramstein AB, upgrade the UPS and generator at New Boston AFS and support upgrades to the AF Support Terminal. Additionally, FY08 funds procure equipment to modernize wideband terminals, Jam-Resistant Secure Communications (network 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) subnet, sensor sites and DSCS hub station and leverage WGS</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE			
<b>Description (continued):</b> capabilities and interoperability with the Army, Navy, AF and State Department. Equipment procurement includes ground terminal modernization kits, fiber optic modems, patch panels, timing sources, interconnect facility links and equipment facilities.					
3. <b>GLOBAL BROADCAST SERVICE (GBS):</b> 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 reduces DoD reliance on costly leased commercial satellite communications. GBS Receive Suites, Satellite Broadcast Managers and WGS transmit 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. <b>GBS RECEIVE SUITES:</b> The receive suites link users to information sources via GBS, offering near-worldwide service. FY08 funds procure receive suites, upgrades, integration and installation, training, technical manual updates, systems engineering and program support.					
4. <b>GROUND MULTIBAND TERMINAL (GMT):</b> GMT terminals support warfighter tactical communications requirements utilizing WGS, DSCS and commercial satellite systems. The GMT provides the warfighter with flexible, lightweight, modular, scalable and integrated tactical quad-band SATCOM terminals operating 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. Funds procure GMTs and Tri-band Transportable Large Aperture Antennas (LAA). FY08 funds full-rate production of seventeen GMT terminals, system engineering and program support.					
5. <b>COMMAND and CONTROL SYSTEM - CONSOLIDATED (CCS-C):</b> CCS-C provides MILSATCOM satellite command and control capabilities following completion of the AF Satellite Control Network CCS basic sustainment contract in FY05. It also provides automated control of satellite launch and on-orbit operations for existing satellites (DSCS and Milstar) and systems in development (WGS and AEHF). FY08 funds for one set of encryption/decryption interface equipment, one telemetry and command server, one telemetry and command workstation, and network equipment to support Backup Satellite Operations Center - Vandenberg (BSOC-V), and two additional WGS orbit management workstations to support the three WGS Block I satellites at Schriever AFB.					
6. <b>MILSATCOM SUSTAINMENT MODIFICATIONS:</b> Provides minor modifications for MILSATCOM systems currently in sustainment and those currently fielding. FY08 funds procure Command and Control System - Consolidated (CCS-C) KI-17 (cryptographic equipment) Air Force Satellite Control					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE		
<b>Description (continued):</b> Network (AFSCN) compatibility upgrade. Sustainment modifications support MILSATCOM satellite control.				
7. GROUND MOBILE SHELTERS: Ground Mobiles (GMs) provide contingency and survivable command and control of the Advanced EHF (AEHF) and Milstar satellites. GM-1 and GM-2 will provide AEHF survivable support to USSTRATCOM and USNORTHCOM and GM-3 provides contingency support to 14th AF. FY08 funds upgrades to the Ground Mobile shelters to provide operational support during transition from Milstar to AEHF systems.				
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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													
ADVANCED EHF UPGRADES	A												
SYSTEM ENGINEERING													
PROGRAM SUPPORT													
2. SHF TERMINALS													
SHF/JRSC	A												
3. GBS													
A. GBS RECEIVE SUITES	A												
INTEGRATION & INSTALLATION													
SYSTEM ENGINEERING													
PROGRAM SUPPORT													

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{ \$9,624 }			{ \$65,007 }			{ \$61,878 }			{ \$87,451 }
GROUND TERMINALS	A			\$7,804			\$62,714			\$59,061			\$84,543
SYSTEM ENGINEERING				\$1,108			\$1,130			\$1,103			\$1,131
PROGRAM SUPPORT				\$712			\$1,163			\$1,714			\$1,777
5. CCS-C				{ \$285 }						{ \$535 }			
HARDWARE/SOFTWARE STRINGS	A			\$285						\$535			
6. MILSATCOM SUSTAINMENT MODIFICATIONS				{ \$247 }			{ \$254 }			{ \$258 }			{ \$260 }
MILSTAR SCMS MODS	A			\$247			\$254			\$258			\$260
7. GROUND MOBILE SHELTERS										{ \$7,191 }			
AEHF TERMINAL UPGRADES	A									\$7,191			
<b>TOTALS:</b>				\$27,754			\$75,366			\$116,902			\$107,042

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM 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	
1. SMART-T										
ADVANCED EHF UPGRADES										
FY2008(1)			USCENTCOM	MIPR/FFP	ARMY/RAYTHEON/ MARLBOROUGH, MA	Jan-08	Aug-08	Yes		
FY2009(1)			USCENTCOM	MIPR/FFP	ARMY/RAYTHEON/ MARLBOROUGH, MA	Jan-09	Aug-09	Yes		
2. SHF TERMINALS										
SHF/JRSC										
FY2006(2)			AFMC/ESC	MIPR/C/FFP	ARMY/MULTIPLE	Jul-06	Jul-06			
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	Yes		
FY2009(2)			AFMC/ESC	MIPR/C/FFP	ARMY/MULTIPLE	Feb-09	May-09	Yes		
3. GBS										
A. GBS RECEIVE SUITES										
FY2006(3-4)			AFMC/ESC	OPT/FFP W/OPT	RAYTHEON/RESTON, VA	Sep-06	Jan-07			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM 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	
FY2008			AFMC/ESC	C/FFP	UNKNOWN	Jan-08	Jul-08	Yes		
FY2009			AFMC/ESC	C/FFP	UNKNOWN	Jan-09	Jul-09	Yes		
B. WGS TRANSMIT SUITES										
4. GROUND MULTIBAND TERMINALS										
GROUND TERMINALS										
FY2006(5)			AFMC/ESC	C/FFP W/OPT	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-06	Nov-06			
FY2007(5)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-07	Sep-07	Yes		
FY2008(5)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-08	Sep-08	Yes		
FY2009(5)			AFMC/ESC	OPT/FFP	L-3 COMM. CORP/ HAUPPAUGE, NY	Mar-09	Sep-09	Yes		
5. CCS-C										
HARDWARE/SOFTWARE STRINGS										
FY2006(6)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./ LANHAM, MD	Nov-05	Apr-06			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM 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	
FY2008(6)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./ LANHAM, MD	Nov-07	Apr-08	Yes		
6. MILSATCOM SUSTAINMENT MODIFICATIONS										
MILSTAR SCMS MODS										
FY2006			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/ SUNNYVALE, CA	Feb-06	May-07			
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	Yes		
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	UNKNOWN	Dec-07	Mar-09	Yes		
<b>Remarks:</b>										
(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										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM 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	
<p>multiple contract award/delivery dates. Award/delivery dates reflect first award and delivery dates.</p> <p>(3) Base contract awarded in Nov 97 (8 option years); currently in renegotiation--future options TBD.</p> <p>(4) Unit costs vary because of different types/configurations of equipment being used.</p> <p>(5) Base contract awarded Mar 06. Options anticipated, but quantity not yet determined.</p> <p>(6) Base contract awarded in Mar 02 (8 option years)</p>										
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE				
	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$24,427	\$25,026	\$26,490	\$23,439	\$23,551	\$21,485	\$84,354	\$86,155
<p><b>Description:</b></p> <p>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.</p> <p>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).</p> <p style="margin-left: 40px;">a. BLACK SHELTER EQUIPMENT UPGRADE (MOD #S5000102401): No FY08 funding requested.</p> <p style="margin-left: 40px;">b. MONITOR STATION (MS) ANTENNA REPLACEMENT (MOD #S1100416101): No FY08 funding requested.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b> c. OCS COTS UPGRADE: This modification procures replacement of existing GPS OCS commercial equipment that has become obsolete/unsupportable. FY08 funds upgrade all Commercial Off-the-Shelf (COTS) workstations and associated software products that no longer receive vendor support and are otherwise being replaced with new products.  d. RADOME REPLACEMENT: No FY08 funding requested					
<b>2. 474N SEA-LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM:</b>  The primary mission of the 474N SLBM Detection and Warning System is to provide the Cheyenne Mountain Complex (CMC), CO, with credible tactical warning/attack assessment (TW/AA) data on all SLBMs penetrating the coverage area. This data includes an estimation of launch and impact locations and times. The secondary mission is to provide the CMC and other users with TW/AA data on Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. Additionally, PARCS and PAVE PAWS support the Space Situational Awareness mission by providing space vehicle 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 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).  a. PERIMETER ACQUISITION RADAR ATTACK CHARACTERIZATION SYSTEM (PARCS): The PARCS system at Cavalier Air Station (AS), ND, is a single faced, long-range phased array radar whose primary mission is to provide tactical warning and assessment of SLBM and ICBM attack against North America. In its secondary mission of space surveillance, PARCS provides 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.  1) PARCS EVOLUTIONARY MODERNIZATION: FY08 funding for PARCS Evolutionary Modernization program procures modifications that 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 craft the repair, to establish a new source of supply and repair, or to					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b> re-engineer replacement parts. No FY08 funds requested for (1) Data Transmission Controller, Mod #S532491. FY08 will fund: (2) Mission Software Emulator (Replace), Mod #10MS-03-003, and (3) Frequency Test Set, Modifications  b. PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS): PAVE PAWS radar is a ground based system with a primary mission to provide US Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attach Assessment (ITW/AA) data on all Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area. Launch and Predicted Impact (L&PI) information on SLBMs is provided to the Cheyenne Mountain Air Station (CMAS). The secondary mission is to provide credible ITW/AA data on all Intercontinental Ballistic Missiles (ICBMs) penetrating the coverage area. L&PI information on ICBMs is provided to the CMAS. The tertiary mission is to support the Space Surveillance Network (SSN) by providing near-earth satellite surveillance and tracking, reporting observational (metric) and Space Object Identification (SOI) data on man-made satellites.  A new co-primary mission is being assumed from Ground-Based Midcourse Defense (GMD) with the deployment of Upgraded Early Warning Radar (UEWR) at Beale AFB, CA. The UEWR mission is to detect, track and count the individual objects in a ballistic missile attack early in their trajectory. This data can be used by the GMD Fire Control Communications (GFC/C) Component for interceptor commitment and directing ground-based radar operational responses. The GFC Component will use the UEWR information to support intercepts from initial commit through final data uplinks to the defensive action vehicles. Operational acceptance and transfer to sustainment of UEWR is projected for FY08.  1) PAVE PAWS EVOLUTIONARY MODERNIZATION: FY08 funds the PAVE PAWS Evolutionary Modernization program which consists of modifications that replace obsolete or unsupportable system components and subsystems. The PAVE PAWS mission equipment and associated sustainment suites consist of a mix of unique, custom-built components that are obsolete and COTS based subsystems that are no longer supported by the original equipment manufacturers. The first phase of the modernization program upgrades the UEWR Analysis Suite (UAS) to acquire a high fidelity simulation environment for the investigation of site anomalies, the testing of software and hardware modifications/fixes and the fine tuning of system performance. The UAS consists of COTS equipment that requires updates to keep pace with evolving site configurations. Without the UAS upgrade, maintenance response to serious UEWR anomalies will be prolonged, forcing use of operational equipment for anomaly resolution and requiring significant operational downtime, disrupting the site's operational mission and on-going missile defense activities. FY08 funds acquire UAS mission and signal processors, work stations, communications interfaces, and software tools to match the operational sites. Funds also provide for documentation, installation, integration, check-out and validation of equipment in the existing Centralized Integration Support Facility at Peterson AFB, CO.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b>					
<p>3. AIR FORCE SPACE SURVEILLANCE SYSTEM (AFSSS): 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 FY08 AFSSS modernization effort consists of modifications that replace unsupportable and unreliable system components as follows:</p> <ul style="list-style-type: none"><li>a. TRANSMITTER/RECEIVER SUBSYSTEM REFRESH: FY 08 funds will be used to engineer and procure crystal filters and the analog to digital utility bus.</li><li>b. MISSION PROCESSING SYSTEM: FY08 funds will be used to upgrade server network and storage infrastructure components to support ASCC processing requirement.</li></ul>					
<p>4. SPACE DEFENSE OPERATIONS CENTER MODERIZATION: No FY08 funds requested.</p>					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{\$13,037}			{\$11,894}			{\$5,365}			{\$5,320}
BLACK SHELTER EQUIP UPGRADE (MOD #S5000102401)	A			\$1,425									
MS ANTENNA REPLACEMENT	A			\$3,000									
OCS COTS UPGRADE	A			\$7,722			\$9,177			\$5,365			\$5,320
RADOME REPLACEMENT	A			\$890			\$2,717						
474N SEA LAUNCHED BALLISTIC MISSILE (SLBM), DETECTION AND WARNING SYSTEM													
PARCS													
PARCS EVOLUTIONARY MODERNIZATION				{\$6,437}			{\$8,451}			{\$5,095}			{\$4,309}
DATA TRANSMISSION CONTROLLER, MOD #S532491	A			\$921									
MISSION SOFTWARE EMULATOR (REPLACE), MOD #10MS-03-003	A			\$4,496			\$8,285			\$3,252			\$3,672
FREQUENCY TEST SETS, MOD	A			\$1,020						\$1,587			\$382
INTERIM SUPPLY ACTIVITY							\$166			\$256			\$255
PAVE PAWS													
PAVE PAWSEVOLUTIONARY MODERNIZATION	A									\$11,205			

	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 204	Page 1 of 2
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AFSSS EVOLUTIONARY MODERNIZATION				{ \$4,953 }			{ \$4,681 }			{ \$4,825 }			{ \$4,677 }
TRANSMITTER/RECEIVER SUBSYSTEM REFRESH	A			\$4,953			\$4,681			\$3,021			\$2,928
MISSION PROCESSING SYSTEM	A									\$1,804			\$1,749
SPACE DEFENSE OPERATIONS CENTER MODIFICATIONS													{ \$9,133 }
SPACE DEFENSE OPERATIONS CENTER MODIFICATIONS	A												\$9,133
<b>TOTALS:</b>				\$24,427			\$25,026			\$26,490			\$23,439

**Remarks:**  
Total Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 205	Page 2 of 2
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# UNCLASSIFIED

## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2007

**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 unsupported by the original vendors who have replaced them with new products. FY08 funding will upgrade all Commercial Off the Shelf (COTS) workstations and associated software products that have become obsolete or unsupported by the vendors who have replaced them with new products. If not funded we will be unable to replace OCS COTS equipment that is no longer supported by the vendor. This will result in lower operational availability. FY08 funding will upgrade remote site workstations and associated software products. FY08 funding will also upgrade the OCS test environment with the same equipment used for operations resulting in a high fidelity, rigorous test environment. Future funding will replace obsolete equipment identified by prior year obsolescence studies.

**Development Status/Major Development Milestones:** PDR - MAR 06; CDR - MAY 06; First Install - JUL 06

FINANCIAL PLAN \$ (in Millions)	PY		FY2006		FY2007		FY2008		FY2009		FY2010		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
<b>RDT&amp;E</b>														
<b>Ref. R-1 PE No:</b>														
<b>Total RDT&amp;E Costs</b>														
<b>Procurement</b>														
<b>Equipment Kits</b>			8	2.394	8	2.36	8	2.72	8	2.72	10	2.9	42	13.094
<b>Equipment Kits non-recurring</b>				3.006		3.657		0.403		0.349		1.371		8.786
<b>Engineering Change Orders</b>														
<b>Data</b>				0.102		0.1		0.1		0.1		0.1		0.502
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>				1.02		1.86		0.942		0.951		0.969		5.742
<b>Interim Contractor Support</b>														
<b>Other</b>														
<b>Total Procurement Costs</b>			8	6.522	8	7.977	8	4.165	8	4.12	10	5.34	42	28.124
<b>Hardware Installation</b>														
<b>PY Eqpt (0 kits)</b>														
<b>FY06 Eqpt (8 kits)</b>			8	1.2									8	1.2
<b>FY07 Eqpt (8 kits)</b>					8	1.2							8	1.2
<b>FY08 Eqpt (8 kits)</b>							8	1.2					8	1.2
<b>FY09 Eqpt (8 kits)</b>									8	1.2			8	1.2
<b>FY10 Eqpt (10 kits)</b>											10	1.4	10	1.4
<b>Total Installation Costs</b>			8	1.2	8	1.2	8	1.2	8	1.2	10	1.4	42	6.2
<b>Total Modification Costs</b>			8	7.722	8	9.177	8	5.365	8	5.32	10	6.74	42	34.324

<b>Method of Installation:</b> CONTRACTOR, FIELD INSTALL					<b>Admin. Lead-time(After 1 Oct):</b> 2 Month(s)					<b>Production Lead-time:</b> 2 Month(s)												
<b>Contract Date:</b>	<b>PY</b>		<b>FY2006</b>	Mar 06	<b>FY2007</b>	Jan 07	<b>FY2008</b>	Jan 08	<b>FY2009</b>	Jan 09	<b>FY2010</b>	Jan 10										
<b>Delivery Date:</b>	<b>PY</b>		<b>FY2006</b>	Jul 06	<b>FY2007</b>	Mar 07	<b>FY2008</b>	Mar 08	<b>FY2009</b>	May 09	<b>FY2010</b>	May 10										
<b>Installations:</b>	<b>PY</b>	<b>FY2006</b>				<b>FY2007</b>				<b>FY2008</b>				<b>FY2009</b>				<b>FY2010</b>				<b>Total</b>
		<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	
Input			8				8				8				8				10			42
Output				8				8				8				8				10		42



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**INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)** **DATE:** FEBRUARY 2007

**Modification Title and No:** PARCS Mission Software Emulator (RePlace III) AFSPC S2100335701 **Models of System Affected:** AN/FSQ-100

**Description/ Justification:** Replaces the increasingly unsupported components of prime mission equipment of the Perimeter Acquisition Radar Attack Characterization System (PARCS). This modification will engineer, produce, and test hardware components, firmware, and adaptive software that will emulate current operational system software.

**Development Status/Major Development Milestones:** Completion Dates: PARDP Critical Design Review Oct 07; RCC & ECU switch installs May 07 and DT&E Jun 07; In-Plant Hardware Integration Feb 08; In-Plant Software Baseline Complete Aug 08; PARDP DT&E Jul 09 and Operational Test & Evaluation Aug 09; Modification IOC (formal acceptance) Sep 09.

FINANCIAL PLAN \$ (in Actual Dollars)	PY		FY2006		FY2007		FY2008		FY2009		FY2010		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
<b>RDT&amp;E</b>														
<b>Ref. R-1 PE No:</b>														
<b>Total RDT&amp;E Costs</b>														
<b>Procurement</b>														
<b>Equipment Kits</b>					1	3.931	1	1.611					2	5.542
<b>Equipment Kits non-recurring</b>						1.936		0.794						2.73
<b>Engineering Change Orders</b>														
<b>Data</b>						0.344		0.075		0.101				0.52
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>						0.678		0.063		0.052				0.793
<b>Interim Contractor Support</b>														
<b>Other</b>						1.329		0.709		0.734				2.772
<b>Total Procurement Costs</b>					1	8.218	1	3.252		0.887			2	12.357
<b>Hardware Installation</b>														
<b>PY Eqpt (0 kits)</b>														
<b>FY06 Eqpt (0 kits)</b>														
<b>FY07 Eqpt (1 kits)</b>					1	0.067							1	0.067
<b>FY08 Eqpt (1 kits)</b>										1	2.731		1	2.731
<b>FY09 Eqpt (0 kits)</b>														
<b>FY10 Eqpt (0 kits)</b>														
<b>Total Installation Costs</b>					1	0.067				1	2.731		2	2.798
<b>Total Modification Costs</b>					1	8.285	1	3.252		3.618			2	15.155

**Method of Installation:** CONTRACTOR, FIELD INSTALL **Admin. Lead-time(After 1 Oct):** 4 Month(s) **Production Lead-time:** 2 Month(s)

**Contract Date:** PY FY2006 FY2007 Jan 07 FY2008 Jan 08 FY2009 Nov 08 FY2010

**Delivery Date:** PY FY2006 FY2007 Mar 07 FY2008 Mar 08 FY2009 Feb 09 FY2010

Installations:	PY	FY2006				FY2007				FY2008				FY2009				FY2010				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input								1							1							2
Output								1									1					2

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## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2007

**Modification Title and No:** PAVE PAWS Evolutionary Modernization

**Models of System Affected:** AN FPS 132

**Description/ Justification:** The FY08 PAVE PAWS Evolutionary Modernization program consists of modifications that replace obsolete or unsupportable system components and subsystems. The PAVE PAWS mission equipment and associated sustainment suites consist of mix of unique, custom-built components that are obsolete and COTS based subsystems that are no longer supported by the original equipment manufacturers. The first phase of the modernization program upgrades the UEWR Analysis Suite (UAS) to acquire a high fidelity simulation environment for the investigation of site anomalies, the testing of software and hardware modifications/fixes and the fine tuning of system performance.

**Development Status/Major Development Milestones:** SENSOR Contract#F19628-02-C-0010: Procurement Jan 08, Delivery Apr 08, Install Jun 08, Checkout & Test Jul 08, Certification Aug 08

FINANCIAL PLAN \$(in Millions)	PY		FY2006		FY2007		FY2008		FY2009		FY2010		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
<b>RDT&amp;E</b>														
<b>Ref. R-1 PE No:</b>														
<b>Total RDT&amp;E Costs</b>														
<b>Procurement</b>														
Equipment Kits							1	5.582					1	5.582
Equipment Kits non-recurring							1	0.013					1	0.013
Engineering Change Orders														
Data							1	0.71					1	0.71
Training Equipment														
Support Equipment														
Software							1	1.02					1	1.02
Interim Contractor Support														
Other							1	1.37					1	1.37
<b>Total Procurement Costs</b>							5	8.695					5	8.695
<b>Hardware Installation</b>														
PY Eqpt (0 kits)														
FY06 Eqpt (0 kits)														
FY07 Eqpt (0 kits)														
FY08 Eqpt (1 kits)							1	2.51					1	2.51
FY09 Eqpt (0 kits)														
FY10 Eqpt (0 kits)														
<b>Total Installation Costs</b>							1	2.51					1	2.51
<b>Total Modification Costs</b>							5	11.205					5	11.205

**Method of Installation:** CONTRACTOR, DEPOT INSTALL

**Admin. Lead-time(After 1 Oct):** 3 Month(s)

**Production Lead-time:** 6 Month(s)

<b>Contract Date:</b>	PY		FY2006		FY2007		FY2008	Oct 07	FY2009		FY2010											
<b>Delivery Date:</b>	PY		FY2006		FY2007		FY2008	Apr 08	FY2009		FY2010											
<b>Installations:</b>	PY	FY2006				FY2007				FY2008				FY2009				FY2010				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input											1											1
Output												1										1

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COUNTERSPACE SYSTEMS				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$14,300	\$31,276	\$22,846	\$28,224	\$26,892	\$37,699	\$38,439	\$39,201
<p><b>Description:</b></p> <p>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.</p> <p>1. <b>RAPID ATTACK IDENTIFICATION DETECTION AND REPORTING SYSTEM (RAIDRS):</b> 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.</p> <p style="padding-left: 40px;">a. <b>FIXED INTERFERENCE DETECTION SYSTEM:</b> Funding in FY08 provides for the production and fielding of six Interference Detection System (IDS) sensors to detect, characterize and report SATCOM RFI. The IDS sensors have a unique configuration, depending on the protected frequency band, and are installed at various sites to maximize global coverage.</p> <p style="padding-left: 40px;">b. <b>FIXED INTERFERENCE DETECTION/GEOLLOCATION SYSTEM:</b> Funding in FY08 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.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COUNTERSPACE SYSTEMS			
<b>Description (continued):</b> <ul style="list-style-type: none"><li>c. DEPLOYABLE INTERFERENCE DETECTION/GEOLLOCATION SYSTEM: No FY08 funds are requested.</li><li>d. SITE ACTIVATION: Funding in FY08 provides engineering activities at the fixed IDS and GLS locations.</li></ul> <p>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.</p> <ul style="list-style-type: none"><li>a. CCS UPGRADES: Funding in FY08 provides for the production, integration and fielding of an advanced counter communications technique to increase the capability of fielded CCS units. FY 2008 finding buys five advanced capability plug-in production units.</li><li>b. BLOCK 10 CCS: No FY08 funds requested.</li></ul>					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COUNTERSPACE SYSTEMS
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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													
FIXED INTERFERENCE DETECTION	A												
FIXED INTERFERENCE DETECTION/GEOLOCATION SYSTEMS	A												
DEPLOYABLE INTERFERENCE DETECTION/GEOLOCATION SYSTEM	A												
SITE ACTIVATION (1)													
COUNTER COMMUNICATIONS SYSTEM													
COUNTER COMMUNICATIONS SYSTEM UPGRADES	A												
BLOCK 10 COUNTER COMMUNICATIONS SYSTEM	A												
<b>TOTALS:</b>													

**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.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FIXED INTERFERENCE DETECTION										
FY2008(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-08	Apr-10	Yes		
FY2009(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-09	Apr-11	Yes		
FIXED INTERFERENCE DETECTION/GEOLOCATION SYSTEMS										
FY2008(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-08	Jul-09	Yes		
FY2009(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Jan-09	Jul-10	Yes		
DEPLOYABLE INTERFERENCE DETECTION/GEOLOCATION SYSTEM										
FY2007(1)			AFSPC/SMC	OPT/CPAF	INTEGRAL SYSTEMS INC/ LANHAM, MD	Feb-07	Jul-08	Yes		
			<b>P-1 ITEM NO</b> 43				<b>PAGE NO:</b> 212	Page 1 of 2		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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			
FY2008			AFSPC/SMC	C/CPAF	UNKNOWN	May-08	Sep-09	Yes		
BLOCK 10 COUNTER COMMUNICATIONS SYSTEM										
FY2006(2)			AFSPC/SMC	SS/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Jan-07	Jan-08			
FY2007(2)			AFSPC/SMC	SS/FFP	HARRIS CORPORATION/ MELBOURNE, FL	Jan-07	Jan-08			
<b>Remarks:</b>										
(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) Harris Corp. selected as sole source contractor for this project; approved by AFPEO SPACE (SMC/CC) in April 2006.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$130,570	\$147,823	\$208,863	\$376,363	\$334,953	\$394,877	\$461,700	\$473,889

**Description:**  
 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).

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

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> 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 roosting 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. FY08 funds will upgrade and refresh TDC technology to keep pace with obsolescence, end-of-life, diminishing manufacturing sources, and mandated upgrades such as Everything over Internet Protocol (EoIP), Internet Protocol Version 6 (IPv6), 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. FY08 funds will support spiral upgrading of the equipment to include fleet-wide installation of IP Modems to support the upgrade to EoIP as well as maintaining 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 implementation of a spiral upgrade/replacement process to incorporate new communications technologies and capabilities into the baseline. FY08 funds will continue to implement mandated upgrades including Voice over IP, initiate upgrading ICAP to EoIP, keep pace with evolving technology and provide direct mission support.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b>  c. NETWORK CONTROL CENTER-DEPLOYED (NCC-D): NCC-D, formerly known as Network Management System/Base Information Protection (NMS/BIP), provides the same network management/information protection and network planning capabilities for deployed operations that exist on 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. Funding includes implementation of a spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY08 funds will support spiral upgrading of the equipment to include the upgrade to EoIP, keep pace with evolving technology and provide direct mission support, including potential changes driven by the implementation of Air Force Network Operations.  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 usually co-located with the senior Army operational command post from corps through battalion level and below, if jointly validated, and 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 prepare and submit immediate air support request to the ASOC, conduct detailed target planning, transmit mission briefings to aircraft upon check-in, provide terminal attack control during attack execution and forward battle damage assessment to C2 organizations.  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 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).					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> The TACP/ASOC weapon system is comprised of four main components and 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. The components listed below and depicted on Exhibit P-5 are representative of the types of Tactical C-E equipment required to provide TACP/ASOC mission-critical capabilities and maintain operations effectiveness. Due to active TACP/ASOC 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. Development funding is in Program Element 0207423F, Advanced Communication Systems. Prime mission equipment is as follows:  a. <b>LASER TARGETING DEVICES:</b> 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 and 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. FY08 funding support the increase of Tactical Air Control Parties and Air Support Operations Centers required to support the expanded number of Army Brigade Combat Teams.  b. <b>COMPUTERS:</b> 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. 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. <b>MANPACK/HANDHELD RADIOS:</b> These multiband radios with ancillary equipment are capable of providing the required LOS and BLOS digital communications connectivity needed to perform the TACP mission and reduce the weight of equipment carried by dismounted TACP. 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 JTRS-compliant systems or other emerging technologies as they become					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> available.  d. TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS): Funds provide multiple radios, ROVER receivers and computers with software, ancillary equipment and system integration for the TACP VCS. FY08 funds procure an interim 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 Army Stryker armored vehicles designated for TACP use with Stryker Brigade Combat Teams (SBCT). The TACP-M program will provide an interim VCS using legacy technology, which will migrate to JTRS-compliant radios or other emerging technologies as they become available. In addition FY08 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); and ROVER receivers with computers, ancillary equipment, and control / display software. Remotely Operated Video Enhanced Receiver (ROVER) receivers allow attack aircraft with targeting pods and Unmanned Aerial Vehicles (UAVs) equipped with ROVER transmitters to transmit streaming video to personnel supporting ground commanders. FY08 funds will also continue to procure a VCS emerging radio technology to provide the TACPs with network communications capability which will migrate to JTRS-compliant radios as they become available.  3. TACTICAL RADIO SYSTEMS/JTRS: The Joint Tactical Radio System (JTRS) will be a family of software programmable tactical radios tied to satellite communications 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, 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 evaluating of waveform, radio, common ancillary, network management, and associated software. The JTRS JPEO adopted an moderate risk, incremental, acquisition strategy. Total waveforms being developed is reduced from 32 required waveforms to 12. JTRS radio form factors has been reduced as well. Additionally, the JPEO JTRS acquisition strategy stretches the development out by at least 2 years. With this acquisition strategy, JTRS terminals may not be available to support military requirements and the GWOT. The AF will purchase interim radios to meet operational requirements.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> The AF-established acquisition program office is developing JTRS procurement strategies to meet AF warfighter requirements for tactical communications (e.g., vehicular, handheld, manpack/dismounted, fixed stations) by collaborating with AFC2ISRC, ACC, JPEO JTRS and other services' JTRS program offices. This program supports procurement of prime mission equipment listed below and will field tactical communications capabilities using legacy radios or other existing technologies to fulfill tactical communication requirements and worldwide flying operations until JTRS are available. FY08 funds in this line will procure handheld tactical radio systems for AF ground users as well as vehicular, fixed station, and manpack/dismountable radios.  4. <b>BATTLEFIELD AIR OPERATIONS KIT (BAO Kit):</b> 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 of Line of Sight (LOS) targeting, Beyond Line of Sight (BLOS) targeting, situational awareness (SA) and information management while also reducing the risk of fratricide and substantially reducing the weight carried by individual Airmen. BAO Kit capabilities consist of machine-to-machine, BLOS targeting, LOS targeting, lightweight renewable energy, and a human machine interface (HMI). BAO Kit will significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid 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 requested in FY08 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. Development funds are in Program Element 0408011F, Special Tactics/Combat Control.  a. <b>LINE OF SIGHT TARGETING SYSTEM (formerly LITES):</b> No FY08 funding requested.  b. <b>BATTLEFIELD RENEWABLE INTEGRATED TACTICAL ENERGY SYSTEM (BRITES):</b> No FY08 funding requested.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> <p>c. BEYOND LINE OF SIGHT (BLOS) TARGETING SYSTEM: Previously identified as BATTLEFIELD AIR TARGETING-CAMERA AUTONOMOUS MICRO-AIR VEHICLE (BATCAM). 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.</p> <p>d. HUMAN MACHINE INTERFACE (HMI ): Previously identified as BATTLEFIELD AIR TARGETING MANUAL AIDS TO KNOWLEDGE (BATMAN). 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.</p> <p>e. SPECIAL OPERATIONS TACTICAL NETWORK (SOFTNET): No FY08 funding requested.</p> <p>f. MACHINE-TO-MACHINE (M2M) TARGETING AND INTEGRATION: No FY08 funding requested.</p> <p>5. TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT: No FY08 funding requested.</p> <p>In FY07 TACTICAL C-E EQUIPMENT received a \$1.1M Congressional Add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).</p>					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TDC PROGRAM				{\$92,111}			{\$44,866}			{\$65,848}			{\$92,839}
HUB AND SPOKE SATELLITE TERMINALS	A			\$14,444			\$8,269			\$10,042			\$26,123
INTEGRATED COMMUNICATIONS ACCESS PACKAGE	A			\$67,367			\$29,388			\$44,261			\$52,240
NETWORK CONTROL CENTER-DEPLOYED	A			\$10,300			\$2,658			\$7,045			\$9,976
PROGRAM SUPPORT							\$4,551			\$4,500			\$4,500
TACP MODERNIZATION				{\$16,085}			{\$59,517}			{\$92,113}			{\$142,366}
LASER TARGETING DEVICES	A						\$7,500			\$45,440			
COMPUTERS	A			\$5,866			\$4,052			\$4,361			
MANPACK/HANDHELD RADIOS	A			\$4,832			\$13,232			\$10,458			
TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS)	A			\$5,387			\$30,186			\$24,740			\$133,691
PROGRAM SUPPORT							\$4,547			\$7,114			\$8,675
TACTICAL RADIO SYSTEMS				{\$11,180}			{\$39,264}			{\$44,578}			{\$123,427}
HANDHELD RADIOS	A			\$11,180			\$39,264			\$42,587			\$67,562
MANPACK RADIOS	A												\$51,859

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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										\$1,991			\$4,006
BATTLEFIELD AIR OPERATIONS KIT				{\$11,194}			{\$4,176}			{\$6,324}			{\$10,326}
LINE OF SIGHT TARGETING SYS (LITES)	A			\$300									
BRITES	A			\$8,819									
BEYOND LINE OF SIGHT TARGETING SYS	A						\$2,198			\$4,680			\$8,324
HUMANMACHINE INTERFACE	A						\$778			\$684			\$762
BATMAN SOFTWARE MAINTENANCE				\$120									
SOFTNET	A			\$400									
M2M	A			\$423									
PROGRAM SUPPORT				\$1,132			\$1,200			\$960			\$1,240
TAC AIRBORNE CNTRL SYSTEM													{\$7,405}
TAC AIRBORNE CNTRL SYSTEM	A												\$7,405
<b>TOTALS:</b>				\$130,570			\$147,823			\$208,863			\$376,363

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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									
FY2006(1-2,6)			AFMC/ESC	MIPR/FFP	NAVY/MULTIPLE	Mar-06	Jan-07		
FY2007(1-2,6)			AFMC/ESC	MIPR/FFP	NAVY/MULTIPLE	Jan-07	Jan-08		
FY2008(1-2,6)			AFMC/ESC	MIPR/FFP	NAVY/MULTIPLE	Jan-08	Jan-09	Yes	
FY2009(1,6)			AFMC/ESC	MIPR/FFP	NAVY/MULTIPLE	Jan-09	Jan-10	Yes	
INTEGRATED COMMUNICATIONS ACCESS PACKAGE									
FY2006(1,3,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Mar-06	Jun-06		
FY2007(1,3,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-06	Jun-07		
FY2008(1,3,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-07	Jun-08	Yes	
FY2009(1,3,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-08	Jun-09	Yes	
NETWORK CONTROL CENTER-DEPLOYED									
FY2006(1,4,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Mar-06	Jul-06		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(1,4,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-07	Jul-07		
FY2008(1,4,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-08	Jul-08	Yes	
FY2009(1,4,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-09	Jul-09	Yes	
TACP MODERNIZATION									
LASER TARGETING DEVICES									
FY2007(1,6)			AFMC/ESC	MIPR/FFP	ARMY/ NORTHROP-GRUMMAN LASER LITTON/APOPKA, FL	Nov-06	Dec-06		
FY2008(1,6)			AFMC/ESC	MIPR/FFP	ARMY/ NORTHROP-GRUMMAN LASER LITTON/APOPKA, FL	Nov-07	Dec-07	Yes	
COMPUTERS									
FY2006(1,5)			AFMC/ESC	C/FFP	MULTIPLE	Mar-06	Jun-06		
FY2007(1)			AFMC/ESC	C/FFP	DYNAMIC RESEARCH SYSTEM/MELBOURNE, FL	Dec-06	Mar-07		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008(1)			AFMC/ESC	C/FFP	UNKNOWN	Nov-07	Mar-08	Yes		
MANPACK/HANDHELD RADIOS										
FY2006(1)			AFMC/ESC	DO/FFP	HARRIS CORP/ ROCHESTER, NY	Nov-05	Dec-05			
FY2007(1)			AFMC/ESC	DO/FFP	NORTHROP GRUMMAN/ ROCHESTER, NY	Dec-06	Mar-08			
FY2008(1)			AFMC/ESC	DO/FFP	UNKNOWN	Nov-07	Dec-07	Yes		
TACP VEHICULAR COMMUNICATIONS SYSTEMS (VCS)										
FY2006(1,6)			AFMC/ESC	OTH/OTH	MULTIPLE	Mar-06	Feb-07			
FY2007(1,6)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-06	Jun-07			
FY2008(1,9)			AFMC/ESC	OTH/OTH	UNKNOWN	Oct-07	Jun-08	Yes		
FY2009(1,9)			AFMC/ASC	OTH/OTH	UNKNOWN	Oct-08	Jun-09	Yes		
TACTICAL RADIO SYSTEMS										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
HANDHELD RADIOS										
FY2006(1)			AFMC/ESC	MIPR/FFP	GSA/ THALES COMMUNICATIONS, INC./ CLARKSBURG, MD	Sep-06	Jan-07			
FY2007(1)			AFMC/ESC	MIPR/FFP	GSA/ UNKNOWN	Apr-07	Jul-07	Yes		
FY2008(1)			AFMC/ESC	MIPR/FFP	GSA/ UNKNOWN	Jan-08	Oct-08	Yes		
FY2009(1)			AFMC/ESC	MIPR/FFP	GSA/ UNKNOWN	Jan-09	Oct-09	Yes		
MANPACK RADIOS										
FY2009(1)			AFMC/ESC	MIPR/FFP	ARMY/ UNKNOWN	Jan-09	Jan-10	Yes		
BATTLEFIELD AIR OPERATIONS KIT										
LINE OF SIGHT TARGETING SYS (LITES)										
FY2006			AFMC/ASC	MIPR/FFP	ARMY/LITTON SYSTEMS INC./ ORLANDO, FL	Oct-06	Apr-07			
			<b>P-1 ITEM NO</b> 44				<b>PAGE NO:</b> 226	Page 4 of 7		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
BRITES										
FY2006(1,10)			AFMC/ASC	C/FFP	MULTIPLE	Jan-07	Jun-07			
BEYOND LINE OF SIGHT TARGETING SYS										
FY2007(1,8)			AFMC/ASC	C/FFP W/OPT	AEROVIRONMENT/SIMI VALLEY, CA	Dec-06	Aug-07			
FY2008(1,8)			AFMC/ASC	OPT/FFP	AEROVIRONMENT/SIMI VALLEY, CA	Dec-07	Aug-08	Yes		
FY2009(1,8)			AFMC/ASC	OPT/FFP	AEROVIRONMENT/SIMI VALLEY, CA	Dec-08	Aug-09	Yes		
HUMAN MACHINE INTERFACE										
FY2007			AFMC/ASC	C/FFP W/OPT	UNKNOWN	Apr-07	Aug-07	Yes		
FY2008			AFMC/ASC	OPT/FFP	UNKNOWN	Mar-08	Jul-08	Yes		
FY2009			AFMC/ASC	OPT/FFP	UNKNOWN	Mar-09	Jul-09	Yes		
SOFTNET										
FY2006			AFMC/ASC	C/FFP	SMARTRONIX/ CALIFORNIA, MD	Sep-06	Mar-07			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
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	
M2M										
FY2006(1,7)			AFRL	OPT/CPFF	SRA INTERNATIONAL	Apr-06	Sep-07			
TAC AIRBORNE CNTRL SYSTEM										
TAC AIRBORNE CNTRL SYSTEM										
FY2009			AFMC/ASC	C/FFP	UNKNOWN	Dec-08	Mar-09	Yes		
<p><b>Remarks:</b></p> <p>(1) Quantity and unit cost vary because of different types/configurations being procured.</p> <p>(2) 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.</p> <p>(3) 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).</p> <p>(4) 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).</p> <p>(5) Multiple contractors via AFWAY program at HQ/SSG/AQH, Gunter AFB, AL.</p> <p>(6) Mutliple 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.</p> <p>(7) Task Order contract; base contract was awarded Nov 2003</p> <p>(8) Basic contract awarded Dec 2006 with three one-year options.</p>										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)						DATE: FEBRUARY 2007			
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
<p>(9) Contracts for VCS is unknown at this time. Full and Open competition.</p> <p>(10) Contractors: LAT Enterprises, Raleigh, NC, FA-8629-07-C-2373; Capitol Connections LLC, Middleburg, VA, FA-8629-07-C-2374</p>									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>	307	2,225	2,135	2,110	2,860	2,900	1,785	1,765
<b>COST</b> (in Thousands)	\$7,109	\$27,088	\$27,174	\$27,459	\$36,458	\$37,917	\$29,100	\$29,680

**Description:**  
 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 for CSEL. 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 35,000 CSEL radios, of which over 18,400 are for the Air Force. CSEL procurement will eliminate the reliance of aircrews, recovery forces, and isolated personnel on Vietnam-era survival radio technology and will improve 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, and RSA spare kits and a portable CSAR Interrogator Unit (PCIU) which enables Terminal Area Communications between CSEL and rescue forces.

FY08 funding procures CSEL radios, ancillary equipment, production engineering and associated support equipment as well as direct mission support. Failure to procure CSEL as expeditiously as possible extends the reliance of aircrews, recovery forces, and isolated personnel on dated survival radio technology.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: COMBAT SURVIVOR EVADER LOCATOR								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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		307		{\$7,109}	2,225		{\$27,088}	2,135		{\$27,174}	2,110		{\$27,459}
CSEL RADIO (1)	A	307		\$2,296	2,225		\$16,894	2,135		\$18,456	2,110		\$18,281
ANCILLIARY EQUIP (2)				\$724			\$3,888			\$4,306			\$4,808
PORTABLE CSAR INTERROGATOR UNIT (3)							\$1,480						
PRODUCTION ENGINEERING				\$927			\$988			\$1,017			\$1,047
DIRECT MISSION SUPPORT (4)				\$3,162			\$3,838			\$3,395			\$3,323
TOTALS:				\$7,109			\$27,088			\$27,174			\$27,459
<p><b>Remarks:</b>                      Total Cost information is in thousands of dollars.</p> <p>(1) Unit costs per FY are contingent upon the total radio quantity purchased by all three services.</p> <p>(2) 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.</p> <p>(3) 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.</p> <p>(4) Includes Secret Internet Protocol Router Network, Electronic Proving Ground, Joint Interoperability Test Command, Joint Personnel Recovery Agency, UHF Base Station support and other government &amp; contractor travel/support.</p>													
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR
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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
CSEL RADIO									
FY2006(1)	307		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Jul-06	Apr-07		
FY2007	2,225		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Mar-07	Dec-07	Yes	
FY2008	2,135		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Nov-07	Aug-08	Yes	
FY2009	2,110		AFMC/ESC	SS/FFP	BOEING/ ANAHEIM, CA	Nov-08	Aug-09	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. A reduction in any service's procurement in a given fiscal year increases the unit cost for all radios funded in that year.

(1) Boeing/Anaheim contract number is FA 8807-05-C-0004, Mar 05.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$9,357	\$8,691	\$12,235	\$13,754	\$15,889	\$16,147	\$16,463	\$16,790

**Description:**  
 The Radio Equipment High Frequency Global Communications System (HFGCS) is a cost-effective, networked solution for providing near-global communication coverage for both voice and data to aircrews. This program procures new HF radio equipment and supports its integration for the Air Force (AF) at 13 strategically located ground stations around the world. This Command and Control/National Security System (C2/NSS) is the Department of Defense's (DoD's) only high-power, HF C2 network. The Joint Chiefs of Staff (JCS) selected the AF as the executive agent for this worldwide command and control network. HFGCS is a global C2 network providing Beyond Line Of Sight, interoperable voice and data communications for strategic and tactical forces. 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. Through the DoD teleport, 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 ACC and the AF Office of Special Investigations (AFOSI).

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.
  - a. **NETWORK MODERNIZATION IMPROVEMENTS:** FY08 funding supports US Central Command's (CENTCOM's) requirement to improve HF communications in their area of responsibility (AOR). FY08 funding begins the upgrade of HF capabilities and supports integration/interface of a new CENTCOM station into the Defense Information Systems Agency (DISA) Global Information Grid (GIG). This network provides secure, robust, physically diverse terrestrial, airborne and space-based transmission paths and information services between fixed and deployed operating locations. FY08 funds

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT			
<b>Description (continued):</b> continue procurement of radio equipment to install and integrate the CENTCOM station into the global HFGCS network and provide for interface, integration, and operational testing of the system into CENTCOM's Combined Air Operations Center at Al Udeid, Qatar. FY08 funds continue the effort to standup the alternate network control station (NCS). In their post 9/11 review, DoD identified a single point of failure within the HFGCS network. Presently there is only one NCS and it is located at Andrews AFB. This review determined that an alternate NCS was needed to meet system survivability requirements ensuring uninterrupted network operations. This alternate NCS will be known as NCS-West (NCS-W). FY05-07 funds designed and procured the first four phases of NCS-W, as well as initial portions of phase five. FY08 funding procures hardware/software to complete the final fifth step. This ensures full NCS redundancy and integration of this critical capability into the HFGCS worldwide network.  b. ANTENNAS: Antenna survey assessments have been completed at all 13 HFGCS stations and have identified numerous obsolete, degraded and unsupportable antennas. Funding requirements support the most critical system antenna replacements in order to support the HFGCS mission.  c. ENGINEERING/INTEGRATION/TRAINING: FY08 funding procures items needed to support the final phases of NCS-W installation and the CENTCOM station. FY08 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 system complies with DISA's GIG requirements.  d. DIGITAL HF: FY08 funding procures items needed to implement digital HF. Digital HF satisfies the operational need for clear end-to-end secure voice and IP data capability on all AMC aircraft over the HF radio spectrum using the HFGCS system. Funds support the integration 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.  2. ACC TRUNKED LMR SYSTEM: No FY08 funding requested.  In FY07 RADIO EQUIPMENT received a \$1.0M Congressional add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).					
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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				{ \$7,357 }			{ \$8,691 }			{ \$12,235 }			{ \$13,754 }
NETWORK MODERNIZATION/IMPROVEMENTS	A			\$5,787			\$4,964			\$3,214			\$2,940
ANTENNAS	A			\$570			\$2,211			\$3,143			\$3,188
ENGR/INTEGRATION/TNG				\$1,000			\$1,516			\$1,695			\$2,164
DIGITAL HF	A									\$4,183			\$5,462
ACC													
ACC TRUNKED LMR SYSTEM	A			\$2,000									
TOTALS:				\$9,357			\$8,691			\$12,235			\$13,754

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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									
FY2006(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Apr-06	Jan-07		
FY2007(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Apr-07	Jun-07	Yes	
FY2008(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-08	Jul-08	Yes	
FY2009(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-09	Jul-09	Yes	
ANTENNAS									
FY2006(1,4)			AFMC/OC-ALC	DO/IDIQ	LEADER COMMUNICATIONS, INC/ OKLAHOMA CITY, OK	Jun-06	Oct-06		
FY2007(1,5)			AFMC/OC-ALC	C/IDIQ	UNKNOWN	Apr-07	Jun-07	Yes	
FY2008(1,6)			AFMC/OC-ALC	C/IDIQ	UNKNOWN	Apr-08	Jun-08	Yes	
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2009(1,6)			AFMC/OC-ALC	OPT/IDIQ	UNKNOWN	Feb-09	Apr-09	Yes		
DIGITAL HF										
FY2008(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-08	Jun-08	Yes		
FY2009(1,3)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/ RICHARDSON, TX	Feb-09	Jun-09	Yes		
ACC TRUNKED LMR SYSTEM										
FY2006(1-2)			HQ ACC	OPT/FFP	MULTIPLE	Mar-06	Dec-06			
<b>Remarks:</b>										
<p>(1) Quantities and unit costs vary due to site-specific requirements.</p> <p>(2) Multiple options from existing ACC, AETC, and GSA schedule contracts. Award/delivery dates represent dates of first contract award and delivery.</p> <p>(3) Apr 01 basic contract F34601-01-D-0276 awarded to Rockwell/Collins with 10 option years.</p> <p>(4) Contract FA8102-05-D-0010 awarded to Leader Communications, Inc. Aug 2005 for IDIQ antenna purchases.</p> <p>(5) Competitive, 8(A) contract with IDIQ option to be awarded in FY07 for Antenna Sustainment Program to support the Guam HFGCS Station antenna replacement program.</p> <p>(6) Competitive contract with IDIQ options to be awarded in FY08 for Antenna Sustainment Program. Contract will have 4 one-year options.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)
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	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$5,692	\$2,729	\$3,110	\$3,192	\$3,600	\$3,653	\$3,724	\$3,797

**Description:**  
 This continuing program procures broadcasting equipment needed by the Air Force Broadcasting Service (AFBS) to support the worldwide mission of the Armed Forces Radio and Television Service (AFRTS). The Air Force (AF) operates radio and television facilities overseas in support of the internal information mission of United States Central Command, United States Pacific Command, United States European Command, Air Combat Command, US Space Command, and Air Force Space Command. This program also procures radio and television equipment for the Air Force News Agency (AFNEWS) Production Center, Lackland Air Force Base, TX. AFNEWS produces and distributes corporate AF radio and television news productions to AFRTS outlets, commercial stations, and AF units throughout the world in support of the AF's Internal Information Program and the Army and Air Force Hometown News Service.

1. AFRTS EQUIPMENT PROCUREMENT: FY08 funds procure lightweight Electronic News Gathering (ENG) systems (to include cameras, editing systems, satellite transmission terminals, and other equipment) suited for operation in demanding field environments. Funds will procure equipment needed to migrate from proprietary systems incompatible with DOD IT architecture, replace media storage, and field digital asset management/collaboration tools to field level, as well as field support for installation of television automation systems.

2. AFNEWS PRODUCTION CENTER: No FY08 funding requested.

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	DATE: FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TV EQUIPMENT (AFRTV)			{\$5,692}		{\$2,729}		{\$3,110}		{\$3,192}
AFRTS EQ PROCUREMENT (DIRECT TO HOME)	A		\$5,397		\$2,422		\$3,110		\$3,192
AFNEWS PRODUCTION CENTER	A		\$295		\$307				
<b>TOTALS:</b>			\$5,692		\$2,729		\$3,110		\$3,192

**Remarks:**  
Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 47		<b>PAGE NO:</b> 239	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$3,150	\$8,374	\$9,839	\$8,991	\$10,285	\$8,972	\$9,148	\$9,330
<p><b>Description:</b></p> <p>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 FY08 by dedicating a greater amount of 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.</p> <p>1. <b>IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:</b> FY08 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. FY08 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.</p> <p>2. <b>COMBAT CAMERA SYSTEMS:</b> FY08 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT			
<b>Description (continued):</b> 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." FY08 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. 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..					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	DATE: FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
IMAGE ACQ/TV STUDIO EQUIP	A		\$1,672		\$1,645		\$1,820		\$1,858
COMBAT CAMERA SYSTEMS	A		\$1,479		\$1,643		\$1,626		\$1,665
WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS	A				\$5,086		\$6,394		\$5,468
<b>TOTALS:</b>			\$3,150		\$8,374		\$9,839		\$8,991

**Remarks:**  
Cost information is in thousands of dollars.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$169,165	\$145,885	\$115,606	\$133,810	\$144,905	\$147,714	\$143,064	\$146,956
<p><b>Description:</b></p> <p>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 critical Air Force (AF) Major Commands (MAJCOMs), the Air National Guard (ANG) and the Air Force Reserve (AFR) with command and control (C2) by operating information systems, protecting information and sharing data and information with all appropriate people/machines 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 34, Base Information Infrastructure.</p> <p>1. HEADQUARTERS AIR FORCE COMMUNICATIONS AGENCY (HQ AFCA): This program procures communications and information systems equipment supporting the information technology (IT) mission. FY08 funding provides for procurement of Commercial Off-the-Shelf (COTS) Land Mobile Radio (LMR) equipment to support Air Force Research Laboratory (AFRL) mission critical requirements. Although Detachment 15/AFRL is an Air Force Material Command (AFMC) asset, the unique location of the site in Maui, HI, puts the site and resources within Pacific Command (PACOM) and Pacific Air Forces (PACAF) purview. As such, they are required to have communications capabilities via the narrowband-compliant Pacific Mobile Emergency Radio System (PACMERS) to support Anti-Terrorism/Force Protection, National Emergency and Disaster Response. The Det 15/AFRL LMR system also provides communications with local island emergency response agencies, including (but not limited to) Emergency Medical Services and Civil Defense. This procurement program replaces current in-garrison wideband radio equipment with narrowband handheld and mobile radios, base stations and repeaters that meet the National Telecommunications and Information Administration (NTIA) narrowband mandate. Failure to procure NTIA mandated narrowband LMRs risks a Commerce Department-directed shutdown of mission critical radio assets supporting Operational Command &amp; Control, Search and Rescue, Base</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> Security, Disaster Response, Emergency Medical Services, Counter Drug and Homeland Security.  2. AIR NATIONAL GUARD (ANG): Base Communications Infrastructure (BCI) is the single funding source to the ANG for base communications requirements. FY08 funds provide for expansion, modernization and sustainment of base communications infrastructure at current 88 ANG flying wings and over 200 Geographically Separated Units (GSU), including Network Operations and Security Centers (NOSCs) and six Regional Operations Support Centers (ROSCs). Funds support "top-down" ANG-wide programs promoting base communications infrastructure consistency across the ANG. Funding provides Engineering and Installation (E&I) support and command-wide purchases of hardware and software. This ensures employed technology and architecture is consistent, compatible and interoperable. 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 related to the transition to Internet Protocol v6 and implementation of Enterprise Information Management may vary as solutions are tailored to particular requirements. However, these various solutions must comply with AF approved architectures, regulations, network designs and equipment specifications. This ensures communications compatibility across the ANG and AF organizations.  Procured equipment satisfies a wide range of base-level FY08 requirements (i.e. telephone switch upgrades to voice-over-IP, application server consolidation, communications switch software upgrades, combat information transport system requirements, cable plant, core wireless LAN infrastructure and other associated critical communications infrastructure requirements). Office appliances include end user and deployable computer systems, video systems, media and projection systems and the wiring and cabling supporting such devices. Many bases also require communications infrastructure to provide data management, 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. FY08 funds will also procure communications infrastructure upgrades supporting emerging missions as Distributed Common Ground System (DCGS) and Predator missions are introduced to ANG bases.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b>					
<p>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 Information Transfer Node (ITN) Refresh, Upgrade Infrastructure Cable Plant, Network Attached Storage Solution implementation, Secure Voice Modernization replacement, Voice Regionalization, Red Network Consolidation, Application Server Consolidation, Black Web Consolidation and E-mail Archiving. For example, the Server Consolidation Initiative, in addition to maximizing server efficiencies, also optimizes and simplifies supporting end-to-end communications infrastructure. FY08 funds support the continuation of many multi-year projects.</p> <p>FY08 funding procures the active equipment necessary to deliver a robust 21st century (red and black) communications and information system in support of AFSPC's projects. In FY08, two major projects require C4 engineering, procurement, and delivery of all voice, data, video and imagery systems necessary for AFSPC personnel to occupy the new Space Warfare Center (SWC) Operations Building (Space Test and Eval Facility) and the Buckley AFB Communications Complex. These projects require a full communications support (Engineer, Furnish, Install &amp; Test (EFI&amp;T)) for all active equipment necessary to install high speed, broadband, digital connectivity required to integrate these new facilities into the existing base C4 infrastructure. The project includes management consoles, 6 Terabyte (TB) of useable primary storage, software, and high-speed network cards for rapid transfer of large quantities of data.</p> <p>AFSPC Secure Voice Modernization supports command-wide crypto upgrades, Integrated Service Telephone (IST) and channel bank end-of-life replacement. The AFSPC Front Range Voice Regionalization project will consolidate voice switch operations at Schriever AFB, Peterson AFB, Buckley AFB and Cheyenne Mountain AFS.</p> <p>FY08 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, LA AFB, Patrick AFB, Malmstrom AFB and Vandenberg AFB.</p>					
<p>4. HQ US AIR FORCES IN EUROPE (USAFE): FY08 funding supports base communications infrastructure expansion and modernization to include procurement and installation at bases, GSU locations and MAJCOM headquarters. Specific critical base communications infrastructure improvements provide secure C2 communications expansion for MAJCOM, NAF and wing senior leadership, flight support, emergency actions and intelligence operations.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b>					
<p>FY08 funding replaces antiquated telephone switch processors at RAF Lakenheath, UK, RAF Croughton, UK, and Sembach AB, GE; and switch relocation from Bitburg AB to Spangahlem AB, GE. Funding will also provide continued telephone switch implementation at five Main Operating Bases and seven Geographical Separate Units (GSUs). In addition, FY08 funds provide improvements by replacing outdated data transfer systems between intra-base communication networks and eliminating bottlenecks in base data distribution systems. Funding also provides fixed antennas and associate infrastructure at RAF Croughton and Lajes High Frequency sites supporting "over-the-horizon" comms to the cockpit. Lastly, funding provides X/KA-band antenna earth stations at RAF Croughton and Ramstein AB supporting Joint warfighters in the EUCOM and CENTCOM Area of Responsibility (AORs).</p>					
<p>5. HEADQUARTERS AIR EDUCATION AND TRAINING COMMAND (HQ AETC): FY08 funds the communications Engineering &amp; Installation (E&amp;I) program and base-approved and MAJCOM-validated communications requirements 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.</p>					
<p>FY08 funds fiber optic connectivity to core facilities that are Combat Information Transport System (CITS) late to need (CITS schedule doesn't meet the needs), covers base backbone shortfalls not addressed under the CITS flight plan and other base network shortfalls not covered by the CITS program. FY08 funds provide replacement of copper cables and associated manhole/duct systems for these 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.</p>					
<p>FY08 funding procures Secret Internet Protocol Router Network (SIPRNet) terminals using TACLANE encryption devices to AETC wing and vice wing commanders, group commanders, squadron commanders, wing command posts, alternate wing command posts, installation deployment officers, unit deployment managers and other users with an immediate need to communicate in the classified environment. The need to transmit classified data over SIPRNet for command and control has greatly increased as Air Expeditionary Forces (AEF) posture across the globe. Without proper SIPRNet funding AETC will not meet its AEF contingency commitments.</p>					
<p>FY08 funds procure equipment for the Giant Voice component of Installation Warning Systems to bases within AETC. Giant Voice is the critical Installation Warning System (IWS) giving commanders the ability to quickly and accurately notify base personal of any 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</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> within the command are failing or nonexistent.  FY08 funds supports the AETC Area Processing Center (APC) standup efforts; these centers will 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). FY08 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. Finally, FY08 funds also procure equipment to support the expansion of the AETC Centralized Collaboration Environment across the command. This effort at centralization will enable AETC to provide continued mission support across the command by enabling bases to avoid supporting duplicate isolated systems.					
6. HQ AIR FORCE MATERIAL COMMAND (HQ AFMC): FY08 funding supports the engineering, acquisition and installation of network infrastructure replacements, upgrades and sustainment of AFMC's classified and unclassified networks to include network protection tools and improved manageability. In the unclassified network, AFMC's primary focus is to complete an information technology regional architecture composed of four Regional Data Centers (RDCs). The RDCs will consolidate all AFMC email and all file servers for the RDCs host bases (Wright Patterson AFB(WPAFB), Hill AFB, Robins AFB, and Tinker AFB). This effort will also update applicable software as well as complete the implementation of bunker sites at Tinker AFB and Hill AFB and will overall decrease the risk of e-mail outages.					
Funding for the classified network supports the engineering, acquisition and installation of network infrastructure replacements, upgrades and sustainment of AFMC's Classified Regional Services Centers to include network protection tools and improved manageability. AFMC's classified network regionalization encompasses both the Secret Internet Protocol Router (SIPRNet) and the Sensitive Compartmented Information Network (SCINet). AFMC is focused on providing e-mail, 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 end state of the regionalization 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 Classified Regional Service Centers (CRSC) enterprise architecture. The SIPRNet architecture is composed of two CRSCs located at Kirtland AFB (KAFB) and WPAFB, while the SCINet is comprised of a single CRSC located at WPAFB. This effort will eliminate "stovepipe" organizational and center systems by migrating all core services to the regionalized (MAJCOM) Service Centers. This program follows the "One Air Force One Network" and SDC efforts.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> FY08 funding also provides for infrastructure and network expansion to include the "first 400 feet" of fiber and copper cables, additional network connections and telephone switching system upgrades. FY08 funding provides for an Enterprise Advanced Collaboration workspace to include manpower, servers and storage. Funding provides for engineering, acquisition and installation support for an automated web-based scientific and technical information management system to support all Air Force users. Specific equipment requirements include servers for use during two stages of spiral implementation throughout the fiscal year.  7. HQ PACIFIC AIR FORCES (HQ PACAF): Funds support Pacific Air Force's base communications operations, command-wide circuits, transformation efforts and life cycle replacement of base information technology systems. The large geographic separation throughout the command significantly raises the importance of a robust communications infrastructure.  FY08 funding procures communications and information systems equipment supporting the Air Force mission. Required purchases and installation services include network equipment, network servers, fiber optic & copper cable and voice switching equipment. Additionally, funding supports both increased network expansion and modernization by upgrading the First 400 Feet infrastructure for all networks.  A top priority is expansion of the PACAF SIPRNet to improve warfighter network access. This network expansion provides classified connectivity for the remaining Mission Critical (Core 1), all Mission Essential (Core 2), and Mission Support (Core 3) buildings at each of nine main operating bases (MOBs). This effort will satisfy existing requirements with room for growth and modularity, and ease future upgrades. It provides an expanded network with bandwidth and switch port capacity to meet ever-increasing IT-intensive requirements, such as imagery-on-demand, as well as support for follow-on forces deploying to PACAF bases with minimal modifications to the infrastructure.  FY08 procurement funds will finance base communications infrastructure equipment and base infrastructure upgrades at seven PACAF bases. This infrastructure provides the network backbone for all unclassified and classified data transmission at these bases. Funding is also required to correct network deficiencies that impact combined operations, through NORAD, in support of the Homeland Defense mission.  8. HQ AIR COMBAT COMMAND (HQ ACC): FY08 funding procures and maintains standardized communications systems throughout ACC, providing AFNETOPs the means to defend, control, manage, modify and monitor the Air Force's communications networks. Funding continues to provide communications upgrades in direct support of the IT Summit Initiative to consolidate networks on both unclassified and classified for Moody, Davis-					
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> Monthan, Creech, Langley, Beale, Shaw and Minot AFBs. Expanding classified networks remains a priority by purchasing classified networking infrastructure equipment for all locations.  FY08 funding supports Mission Critical Network Reliability (MCNR), furthering the ACC Commander's 99.999% net availability vision. Network downtime detrimentally impacts the warfighter tasked with conducting military operations. MCNR seeks to eliminate single points of failure, secure base communications infrastructure from unauthorized access and modernize core aspects of both NIPRNet and SIPRNet. MCNR enhances base-level network Continuity of Operations (COOP) capability by providing the required hardware and installing secondary (alternate path) fiber optic connections from mission-critical C2 facilities. This protects against threats and ensures decision makers are capable of executing command and control supporting military operations worldwide.  FY08 funding supports the command Engineering & Installation (E&I) program and base-level infrastructure upgrades. Infrastructure upgrades include, but are not limited to, the transition to high-speed/high data rate connectivity and establishment of digital switching capabilities. Funds will procure 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.  FY08 funds procurement of Land Mobile Radio (LMR) infrastructure equipment to replace in-garrison wideband infrastructure equipment, base stations, and repeaters to meet the NTIA narrowband mandate. Critical in-garrison functions supported by LMR include local C2, missile security, law enforcement, fire department, medical life support, aircraft generation, disaster response, airfield operation, air base defense and maintenance. Handheld LMRs are personal, portable, low power line-of-sight (LOS) communications devices providing a secure, flexible and versatile means of relaying information between troops in the field and wing command post personnel. LMR infrastructure includes the high-power base stations and repeaters, normally at fixed sites, capable of providing extended coverage LOS communications for troops in the field and wing command post personnel. FY08 will continue to fund Avon Park Air Force Range, Holloman, Barksdale and Offutt AFBs.  9. HQ AIR MOBILITY COMMAND (HQ AMC): FY08 funding provides for base communications infrastructure projects designed to increase security and improve reliability and capacity of information services. In particular, FY08 funding provides for replacement of outdated and maintenance-intensive equipment/infrastructure, fiber & copper cable installations, telephone switch and voice system upgrades, navigational equipment infrastructure support and computer network upgrades, including firewalls and encryption devices. Planned FY08 modernization initiatives directly support rapid dissemination of vital					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> Air Force command and control, mobility and combat support information.  Examples of FY08 projects include:  Grand Forks AFB - Main Distribution Frame (MDF) restoration: Existing MDF for the main base telephone switch has limited vertical space for expansion and must be rearranged and upgraded to current MDF frame types, allowing greater flexibility by having more space for additional cables. Existing wiring is routinely repaired and causes outages.  Travis AFB - Install Fiber Optic cable to support ground-to-air radios receive/transmit sites and south runway equipment; this will ensure adequate cabling exists to avoid disruptions in flying as a result of old infrastructure failure or damage.  Scott AFB - Upgrade voice mail system: upgrades the current voice mail system to comply with JTIC certifications allowing full utilization of the defense infrastructure network; will also facilitate system growth to add additional accounts as required.  Dover AFB - "Core 1 Diversity Upgrade": upgrades mission critical buildings on base to provide a diverse data path to resolve/mitigate the single point of failure problems.  10. HQ AIR FORCE SPECIAL OPERATIONS COMMAND (HQ AFSOC): FY08 funds 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 for information management from central locations), pager and voice switch system upgrades. FY08 funds support enterprise efforts that provide essential standard network and configuration control between main operating bases and geographically separated units (GSUs).  Funds will be used to provide additional SIPRNet connectivity. The need for collateral data support for C2 exceeds current SIPRNet infrastructure capability; infrastructure upgrades will provide improved secure C2 communications for MAJCOM and Wing senior leadership, flight support, emergency actions and intelligence operations. Additionally, funds will be used to support Chief Information Officer (CIO) and Command initiatives as well as other projects such as the DoD-directed migration of inter- and intra-communications networks to IPv6.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2007</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b>					
<p>11. AIR FORCE DISTRICT OF WASHINGTON (Formerly identified as HQ 11th WING): FY08 funding provides for expansion, modernization and sustainment of base communications infrastructure supporting both the 11th Wing and Headquarters Air Force District of Washington (AFDW). Funding is required to expand the narrow band land mobile radio LMR capability within the National Capital Region (NCR) by purchasing radio towers, servers, uninterruptible power supplies and radios. Funding is also required to procure the necessary equipment to provide secure command and control connectivity as we migrate from unsecure communications capabilities. Funding is required for the expansion, modernization and consolidation of network resources (servers, routers and switches) for AFDW and subordinate organizations in the NCR.</p>					
<p>12. AIR FORCE RESERVE COMMAND (AFRC): FY08 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 over 40 Geographically Separated Units (GSU). Supports MAJCOM centrally funded AFRC-wide programs providing base communications infrastructure consistency across the command. Funding provides Engineering and Installation (E&amp;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 C2 facilities that require communications upgrades to ensure network connectivity with integrated Homeland Defense C2 networks. Resulting infostructure allows AFRC to respond to increased workload and provide adequate coordinated response to specific force protection levels. FY08 funds will also support the acquisition and installation of Continuity of Operations Plan (COOP) disaster recovery site at March ARB, CA. The installation of these storage devices will provide near real-time mirroring of data and prevent data loss. In the event of a disaster, all Reserve installations will be able to continue operations by using data available from the COOP at March ARB. 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.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> 13. AF PENTAGON COMMUNICATIONS AGENCY: FY08 funding provides significant infrastructure improvement in many Information Technology (IT) categories at Headquarters, United States Air Force. Air Force Pentagon personnel, including the Secretary of the Air Force and the Chief of Staff of the Air Force, will receive office automation systems and computer networks critical to supporting their mission of issuing AF directives and coordinating with the Department of Defense (DoD) and the Joint Staff. Funds will provide high-quality, high-speed connections to both classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network (SIPRNet). FY08 funds will also procure equipment to enable personnel to receive centralized capabilities such as business-quality electronic mail and network management through programs such as the Network File Sharing System. Other investments include upgrading equipment providing World Wide Web capabilities, remote computing, and video teleconferencing.  Numerous IT upgrades will be accomplished with FY08 funding. Magnetic tape systems are upgraded to meet increasing data storage requirements and enhance read/write capability and archival storage capacity. FY08 funding also addresses mainframe communications equipment upgrades to maintain computer system and network interface compatibility and provide IT user enhancements. Mainframe hardware upgrades meet required IT enhancements for customers and maintain operating system and application software compatibility. Upgrades to open systems architectures meet mandated IT enhancements and improve system performance capabilities. Computer operations equipment (hardware/software) will be updated to improve management of multiple information technology functions and print output media systems will be enhanced to improve operational throughput capacity.  In FY06, Base Communications Infrastructure received \$1.6M in additional funding under P.L. 109-234, the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.  In FY07 BASE COMMUNICATIONS INFRASTRUCTURE received a \$4.8M Congressional add in the FY07 Appropriations Conference Report 109-676 (dated 25 September 2006).					
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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

BASE COMMUNICATIONS INFRASTRUCTURE

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BASE COMMUNICATIONS INFRASTRUCTURE			{ \$169,165 }		{ \$145,885 }		{ \$115,606 }		{ \$133,810 }
HQ AFCA (1,4)	A		\$21,861		\$14,952		\$3,201		
ANG (1-4)	A		\$14,376		\$33,464		\$32,857		\$33,732
HQ AFSPC (1-4)	A		\$19,272		\$30,522		\$9,733		\$14,172
HQ USAFE (1-4)	A		\$9,684		\$10,230		\$9,406		\$11,195
HQ AETC (1-4)	A		\$22,731		\$12,607		\$17,838		\$10,313
HQ AFMC (1-4)	A		\$44,648		\$10,185		\$6,985		\$7,520
HQ PACAF (1-4)	A		\$15,295		\$8,796		\$9,172		\$6,876
HQ ACC (1-4)	A		\$15,274		\$16,434		\$17,540		\$41,255
HQ AMC (1-4)	A		\$2,846		\$2,963		\$2,199		\$2,641
HQ AFSOC (1-4)	A		\$1,670		\$596		\$1,454		\$677
AFDW (1-4)	A				\$2,290		\$1,998		\$2,283
HQ AFRC (1-4)	A		\$1,508		\$1,163		\$480		\$340
SERVICE ACQUISITION EXECUTIVE (1-4)	A				\$1,683				
AF PENTAGON COMMUNICATIONS AGENCY (1-3)	A						\$2,743		\$2,806

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>							<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE					
<b>PROCUREMENT ITEMS</b>	<b>ID CODE</b>	<b>FY2006</b>		<b>FY2007</b>		<b>FY2008</b>		<b>FY2009</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
TOTALS:			\$169,165		\$145,885		\$115,606		\$133,810
<p><b>Remarks:</b>            Cost information is in thousands of dollars.</p> <p>(1) Quantities and unit costs vary due to different site configurations.</p> <p>(2) 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.</p> <p>(3) Options to various competitive, fixed/firm price contracts are available through the following vendors for execution of Base Communications Infrastructure funding: AT&amp;T Federal Communications Systems, CDW-Government, Dell Computer Corp, GTSI, Westwood Computer Corporation, Intelligent Decision Inc, Centech, EDS, Q-System, etc.</p> <p>(4) 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.</p>									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$20,982	\$28,202	\$35,460	\$32,527	\$41,800	\$65,229	\$64,906	\$63,301
<p><b>Description:</b></p> <p>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 to USAF/Department of Defense worldwide 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 FY07/08, 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 and operations and maintenance savings. FY08 ATCALs Transformation initiatives include items a. and d. below. Additional ATCALs Transformation initiatives are also included in the ATCALs FY08 equipment request:</p> <p style="margin-left: 40px;">a. AN/GRN-29 INSTRUMENT LANDING SYSTEM (ILS) GROUNDING: No FY08 funding requested.</p> <p style="margin-left: 40px;">b. AN/GPN-22 (V), RADAR SET GROUP TRANSMITTER MODIFICATION: The AN/GPN-22(V), Radar Set Group, is a fixed base precision approach radar system that provides critical mission support at locations requiring precision approach air traffic control during inclement weather for aircraft recovery. The AN/GPN-22 utilizes 29-year old technology to develop and radiate radar signals. The transmitter experienced an extremely high failure rate that reduced operational availability to an average of 82%, well below the Air Force standard of 97%. This modification improves radar maintainability and reliability. FY08 funding provides for this modification.</p> <p style="margin-left: 40px;">c. AN/TPN-19 RADAR SET GROUP TRANSMITTER MODIFICATION: The AN/TPN-19 Landing Control Central is a deployable Radar Approach Control that provides critical mission support at austere locations requiring precision approach air traffic control during inclement weather for aircraft recovery. The AN/TPN-19 utilizes 34 year-old technology to develop and radiate radar signals. The transmitter has experienced component</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> obsolescence and diminishing manufacturing sources. Modification of the transmitter will improve system maintainability and reliability and provide a viable source of repair. FY08 funding provides for this modification.  d. VOR/VORTAC/TACAN MODIFICATION: Very High Frequency (VHF) Omni-directional Frequency Radios (VORs) provide azimuth bearing (bearing relative to magnetic north) to aircraft during an approach or departure to/from a particular airfield, or en route to a distant airfield. A station identification (ID) is transmitted in Morse code, along with prioritized voice transmissions. Tactical Air Navigation (TACAN) provides azimuth, station ID, 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. A VORTAC is a combined VOR and TACAN unit. Current VOR / VORTAC / TACAN systems have reached the end of their normal lifespan, yet these systems will be required until 2020. Current systems are manpower intensive and costly to support. Implementing this modification will result in an upgraded system with state-of-the-art commercial off-the-shelf technology, a manpower saving remote maintenance and flight inspection support capability and system availability in excess of 99%. FY08 funds continue this multi-year modification effort.  e. AN/GRN-29, INSTRUMENT LANDING SYSTEM (ILS) MODIFICATION: The ILS consists of two subsystems, a “localizer” that provides 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 and glide slope electronics and glide slope antenna - localizer antennas have already been upgraded), manpower saving remote maintenance and flight inspection support capability and system availability in excess of 99%. FY08 funds begin this multi-year modification effort.  f. 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					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
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<b>Description (continued):</b> depot and field level maintenance, enhanced performance, and operational safety.					
2. WEATHER OBSERVATION AND FORECAST SYSTEM: This system consists of meteorological and space environmental equipment needed to provide 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 and timely terrestrial and space weather observations and forecasts. Development funding is in Program Element 0305111F, Weather Service.					
a. GROUND WEATHER: The ground weather mission provides timely, mission-critical support by observing, analyzing, and forecasting terrestrial weather phenomena impacting the warfighter's ability to operate on the ground and in the air. Worldwide weather products are generated and distributed to AF and Army forces and other customers. The following modifications are in support of this mission:					
(1) MOD# 94-003B NEXT GENERATION WEATHER RADAR (NEXRAD) OPEN RADAR DATA ACQUISITION: No FY08 funding requested.					
(2) MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM: FY08 funding upgrades AFWA's web-based capabilities for rapid receipt, staging, and transmission of graphics and text-based weather products and data to the warfighter 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.					
(3) MOD# 98-003, WEATHER FORECASTING: FY08 funding upgrades computer hardware and supporting software, providing target-scale weather and cloud model forecasts at the AF Weather Strategic Center. The current subsystem cannot support the number of theaters/areas of interest necessary for worldwide AF and Army operations, including SOF support. Information Technology refresh will allow the current infrastructure to meet AF spatial and temporal weather and cloud model forecast resolution requirements, provide capacity to handle extremely large data files, and improve both classified target-scale modeling and operational risk management capabilities. FY08 funding also begins modification of Ensemble Prediction System to provide increasingly robust processing capabilities for assessments of operational risk management.					
(4) MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT (AFCCC-R) UPGRADE: No FY08 funding					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> requested.  (5) MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS): FY08 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.  (6) MOD# 00-001, NEXRAD UPGRADES: FY08 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.  (7) MOD# 06-001, AIR FORCE COMBAT CLIMATOLOGY CENTER UPGRADE: FY08 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.  (8) MOD# 06-002, OBSERVATION SYSTEM 21ST CENTURY: FY08 funding upgrades ceilometers and other components of automated fixed base weather observing systems providing safety of flight and resource protection information at more than a hundred AF and Army airfields worldwide.  (9) MOD# 06-003, WEATHER DATA ANALYSIS: FY08 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.  b. SPACE WEATHER: The Space Environmental Monitoring mission is to provide timely space weather support through observation, analysis, and forecasting of solar phenomena and the state of the magnetosphere and ionosphere inhibiting or enhancing DoD's ability to operate in the air and space environment. The AFWA collects, processes, and analyzes data on solar activity. Alerts, warnings, and forecasts are then produced and distributed to worldwide users. These products allow warfighters to mitigate the impact of space weather on activities such as high frequency radio communications, the					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS		
<b>Description (continued):</b> accuracy of global positioning system navigation, satellite anomaly resolution, and space operations.  (1) MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN): No FY08 funding requested.  3. SHARED EARLY WARNING SYSTEM (SEWS): FY08 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 FY08 funding requested.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: COMM ELECT MODS								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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)				{\$7,177}			{\$12,273}			{\$10,056}			{\$3,010}
AN/GRN-29, INSTRUMENT LANDING SYSTEM GROUND	A			\$2,100									
AN/GPN-22(V) RADAR SET GROUP TRANSMITTER	A			\$2,173			\$7,475			\$3,000			
AN/TPN-19 RADAR SET GROUP TRANSMITTER MOD	A			\$1,975			\$1,800			\$1,725			
VOR/VORTAC/TACAN MODIFICATIONS	A						\$2,295			\$2,364			\$1,624
AN/GRN-29 INSTRUMENT LANDING SYSTEM MODIFICATIONS	A									\$2,000			\$1,032
MISCELLANEOUS LOW COST MODS	A			\$929			\$703			\$967			\$354
WEATHER OBSERVATION & FORECAST SYSTEM													
GROUND WEATHER				{\$10,520}			{\$14,988}			{\$25,102}			{\$29,261}
MOD# 94-003B, NEXRAD OPEN RADAR DATA ACQUISITION (ORDA)	A			\$1,178									
MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM	A			\$909			\$4,539			\$4,222			\$2,707
MOD# 98-003, WEATHER FORECASTING	A			\$4,403			\$5,335			\$9,900			\$15,493
MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT (AFCCC-R) UPGRADE	A			\$650			\$1,339						
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS)	A			\$705			\$431			\$440			\$450
MOD# 00-001, NEXRAD UPGRADES	A			\$2,675			\$3,344			\$2,349			\$2,896
MOD# 06-001, AIR FORCE COMBAT CLIMATOLOGY CENTER UPGRADE	A									\$1,800			\$2,000
MOD# 06-002, OBSERVING SYSTEM 21ST CENTURY	A									\$1,500			\$2,715
MOD# 06-003, WEATHER DATA ANALYSIS	A									\$4,891			\$3,000
SPACE WEATHER				{\$1,156}									
MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN)	A			\$1,156									
SHARED EARLY WARNING SYSTEM (SEWS)	A			\$1,508			\$290			\$302			\$256
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A			\$621			\$651						
<b>TOTALS:</b>				\$20,982			\$28,202			\$35,460			\$32,527

**Remarks:**  
Total Cost information is in thousands of dollars.

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## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2007

**Modification Title and No:** Weather Forecasting, 98-003      **Models of System Affected:** Comm Electronics - Weather Observation/Forecast

**Description/ Justification:** Upgrades existing Air Force Weather Strategic Center's high performance hardware and software infrastructure to support predictive environmental battlespace awareness. Current infrastructure will only support a limited number of theaters/areas of interest. Modeling system modifications provide infrastructure to support DoD spatial and temporal terrestrial environment, space environment, and cloud forecast resolution requirements, including classified capabilities. Specific requirements include target-scale cloud forecasts, Unmanned Aerial Vehicle (UAV) data ingest, and satellite data processing to ingest and produce mission execution and operational risk-management-based products from the next generation of weather satellites. Upgrades begin in FY08 to support ensemble prediction techniques for operational risk management.

**Development Status/Major Development Milestones:** Final Operational Capability for Weather Research and Forecast model

FINANCIAL PLAN \$ (in Millions)	PY		FY2006		FY2007		FY2008		FY2009		FY2010		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
<b>RDT&amp;E</b>														
<b>Ref. R-1 PE No:</b>														
<b>Total RDT&amp;E Costs</b>														
<b>Procurement</b>														
<b>Equipment Kits</b>	2	3.037	2	3.185	2	3.86	3	7.307	3	10.308	3	5.412	15	33.109
<b>Equipment Kits non-recurring</b>														
<b>Engineering Change Orders</b>		0.315		0.437		0.5		0.637		1.45		0.965		4.304
<b>Data</b>														
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>		0.448		0.581		0.75		1.106		2.235		1.87		6.99
<b>Interim Contractor Support</b>														
<b>Other</b>														
<b>Total Procurement Costs</b>	2	3.8	2	4.203	2	5.11	3	9.05	3	13.993	3	8.247	15	44.403
<b>Hardware Installation</b>														
<b>PY Eqpt (2 kits)</b>	2	0.2											2	0.2
<b>FY06 Eqpt (2 kits)</b>			2	0.2									2	0.2
<b>FY07 Eqpt (2 kits)</b>					2	0.225							2	0.225
<b>FY08 Eqpt (3 kits)</b>							3	0.85					3	0.85
<b>FY09 Eqpt (3 kits)</b>									3	1.5			3	1.5
<b>FY10 Eqpt (3 kits)</b>											3	1.2	3	1.2
<b>Total Installation Costs</b>	2	0.2	2	0.2	2	0.225	3	0.85	3	1.5	3	1.2	15	4.175
<b>Total Modification Costs</b>	2	4	2	4.403	2	5.335	3	9.9	3	15.493	3	9.447	15	48.578

<b>Method of Installation:</b> CONTRACTOR, FIELD INSTALL				<b>Admin. Lead-time(After 1 Oct):</b> 3 Month(s)				<b>Production Lead-time:</b> 5 Month(s)														
<b>Contract Date:</b>	<b>PY</b>	Jan 05	<b>FY2006</b>	Jan 06	<b>FY2007</b>	Jan 07	<b>FY2008</b>	Jan 08	<b>FY2009</b>	Jan 09	<b>FY2010</b>	Jan 10										
<b>Delivery Date:</b>	<b>PY</b>	Jun 05	<b>FY2006</b>	Jun 06	<b>FY2007</b>	Jun 07	<b>FY2008</b>	Jun 08	<b>FY2009</b>	Jun 09	<b>FY2010</b>	Jun 10										
<b>Installations:</b>	<b>PY</b>	<b>FY2006</b>				<b>FY2007</b>				<b>FY2008</b>				<b>FY2009</b>				<b>FY2010</b>				<b>Total</b>
		<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	<b>1ST</b>	<b>2ND</b>	<b>3RD</b>	<b>4TH</b>	
Input	2			2				2				3				3				3		15
Output	2			2				2				3				3				3		15



# UNCLASSIFIED

## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2007

**Modification Title and No:** Weather Data Analysis, 06-003      **Models of System Affected:** Comm Electronics - Weather Observation/Forecast

**Description/ Justification:** Upgrades existing information technology infrastructure with increased processing and storage capacity within Unclassified and Secret Collateral enclaves. Increased storage needed to keep pace with exponential increases in data available from next generation of environmental sensing satellites. Increased processing needed to provide weather impacts within increasingly shortened operational decision cycles. Upgrades rely on commercially available equipment.

**Development Status/Major Development Milestones:** Initial Operational Capability for Secret Collateral enclave Sep 09

FINANCIAL PLAN \$(in Millions)	PY		FY2006		FY2007		FY2008		FY2009		FY2010		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
<b>RDT&amp;E</b>														
<b>Ref. R-1 PE No:</b>														
<b>Total RDT&amp;E Costs</b>														
<b>Procurement</b>														
<b>Equipment Kits</b>							1	3.466	1	1.94	1	1.183	3	6.589
<b>Equipment Kits non-recurring</b>														
<b>Engineering Change Orders</b>								0.475		0.275		0.21		0.96
<b>Data</b>														
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>								0.7		0.56		0.4		1.66
<b>Interim Contractor Support</b>														
<b>Other</b>														
<b>Total Procurement Costs</b>							1	4.641	1	2.775	1	1.793	3	9.209
<b>Hardware Installation</b>														
<b>PY Eqpt (0 kits)</b>														
<b>FY06 Eqpt (0 kits)</b>														
<b>FY07 Eqpt (0 kits)</b>														
<b>FY08 Eqpt (1 kits)</b>							1	0.25					1	0.25
<b>FY09 Eqpt (1 kits)</b>									1	0.225			1	0.225
<b>FY10 Eqpt (1 kits)</b>											1	0.2	1	0.2
<b>Total Installation Costs</b>							1	0.25	1	0.225	1	0.2	3	0.675
<b>Total Modification Costs</b>							1	4.891	1	3	1	1.993	3	9.884

<b>Method of Installation:</b> CONTRACTOR, FIELD INSTALL						<b>Admin. Lead-time(After 1 Oct):</b> 3 Month(s)						<b>Production Lead-time:</b> 4 Month(s)												
<b>Contract Date:</b>		PY	FY2006		FY2007		FY2008		Jan 08	FY2009		Jan 09	FY2010		Jan 10									
<b>Delivery Date:</b>		PY	FY2006		FY2007		FY2008		May 08	FY2009		May 09	FY2010		May 10									
<b>Installations:</b>	PY	FY2006				FY2007				FY2008				FY2009				FY2010				<b>Total</b>		
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH			
Input												1				1					1		3	
Output												1				1					1		3	

# UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$13,815	\$19,209	\$21,251	\$23,299	\$23,867	\$24,252	\$24,729	\$25,219
<p><b>Description:</b></p> <p>1. 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 Cueing and Display (NVCD) combines the benefits of PNVG with Heads Up Display (HUD) and cueing capabilities.</p> <p>2. 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.</p> <p>Ground Crew Goggles:</p> <p style="margin-left: 20px;">a. 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 with an enhanced third-generation image intensifier.</p> <p style="margin-left: 20px;">b. AN/PVS-14 Ground Crew Goggle. This monocular night vision device is a hand-held, head mounted, helmet mounted, or weapon mounted night</p>								
	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 1		Page 1 of 3			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES			
<b>Description (continued):</b> 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.  c. 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 night time ground operations. The use of the binocular goggle provides the added ability to maintain night vision operations in the event one of the two tubes fail.  d. AN/PVS-18 Ground Crew Goggle. This monocular night vision device is capable of helmet or weapons mounting, has a rugged housing and is designed for ground combat airman. The AN/PVS-18 offers greatly improved capability with glasses, goggles, or gas mask and is submersible. They provide greater depth perception and added capability to respond to light flash. In addition, they allow movement between little to no light situations and instances of increased light such as close quarters combat and urban operations.  Air Crew Goggles:  a. 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.  b. 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.  c. 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,					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES		
<b>Description (continued):</b> 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: a. 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.  b. 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.  3. Items request in FY08 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.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: NIGHT VISION GOGGLES								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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	55	\$3,444	\$189	119	\$3,392	\$404	121	\$3,493	\$423	100	\$3,599	\$360
AN/PVS-7D GROUNDCREW GOGGLES	A	106	\$3,437	\$364									
AN/PVS-14 GROUNDCREW GOGGLES	A	100	\$3,220	\$322	22	\$3,582	\$79	90	\$3,689	\$332	73	\$3,800	\$277
AN/PVS-15 GROUNDCREW GOGGLES	A				10	\$8,170	\$82	50	\$8,303	\$415			
AN/PVS-18 GROUNDCREW GOGGLES	A							2	\$4,980	\$10			
AIRCREW GOGGLES													
F-4949G-TG AIRCREW GOGGLES	A	129	\$5,564	\$718	1	\$5,911	\$06	50	\$5,983	\$299	50	\$6,109	\$305
F-4949H-TG AIRCREW GOGGLES	A	50	\$5,550	\$278	1	\$5,896	\$06	50	\$5,914	\$296	50	\$6,039	\$302
F-4949H-TG AIRCREW GOGGLES	A	167	\$5,514	\$921									
NVCD	A	2	\$275,000	\$550	10	\$166,800	\$1,668	15	\$145,200	\$2,178	75	\$175,000	\$13,125
PANORAMIC NIGHT VISION GOGGLES	A	145	\$65,980	\$9,567	250	\$65,624	\$16,406	250	\$66,925	\$16,731	125	\$68,255	\$8,532
PROGRAM MANAGEMENT ADMINISTRATION & MISSION SUPPORT				\$328			\$300			\$300			\$300
TEST SETS													
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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, INFINITY FOCUS	A	112	\$4,895	\$548	3	\$5,500	\$17	10	\$5,914	\$59	1	\$6,192	\$06
TEST SET, INFINITY FOCUS	A	1	\$5,500	\$06									
TEST SET, INFRARED VIEWER (ANV-126A)	A	1	\$24,250	\$24	10	\$24,250	\$243	7	\$29,700	\$208	3	\$30,400	\$91
<b>TOTALS:</b>		868		\$13,815	426		\$19,209	645		\$21,251	477		\$23,299

**Remarks:**  
Total Cost information is in thousands of dollars.

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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										
FY2006(4,8)	55	\$3,444	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/LITTON/TEMPE, AZ	Sep-06	Sep-07			
FY2006(4,8)	106	\$3,437	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/LITTON/TEMPE, AZ	Sep-06	Sep-07			
FY2007(4,8)	119	\$3,392	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Mar-07	Mar-08	Yes		
FY2008(4,8)	121	\$3,493	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Feb-08	Feb-09	Yes		
FY2009(4,8)	100	\$3,599	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Feb-09	Feb-10	Yes		
AN/PVS-14 GROUNDCREW GOGGLES										
FY2006(4,8)	100	\$3,220	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Apr-06	May-07			
FY2007(4,8)	22	\$3,582	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Mar-07	Mar-08	Yes		
FY2008(4,8)	90	\$3,689	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Feb-08	Feb-09	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(4,8)	73	\$3,800	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ ROANOKE, VA	Feb-09	Feb-10	Yes		
AN/PVS-15 GROUNDCREW GOGGLES										
FY2007(1)	10	\$8,170	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Mar-07	Mar-08	Yes		
FY2008(1)	50	\$8,303	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Feb-08	Feb-09	Yes		
AN/PVS-18 GROUNDCREW GOGGLES										
FY2008(6)	2	\$4,980	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Jan-08	Jan-09	Yes		
AIRCREW GOGGLES										
F-4949G-TG AIRCREW GOGGLES										
FY2006(2)	129	\$5,564	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Feb-07	Feb-08	Yes		
FY2007(9)	1	\$5,911	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Mar-07	Mar-08	Yes		
FY2008(10)	50	\$5,983	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-08	Dec-09	Yes		
FY2009(10)	50	\$6,109	AFMC/WR-ALC	OPT/IDIQ	UNKNOWN	Jan-09	Dec-10	Yes		
F-4949H-TG AIRCREW GOGGLES										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006(2)	50	\$5,550	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Apr-06	Feb-07			
FY2006(2)	167	\$5,514	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Aug-06	Sep-07			
FY2007(9)	1	\$5,896	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Mar-07	Mar-08	Yes		
FY2008(10)	50	\$5,914	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-08	Dec-09	Yes		
FY2009(10)	50	\$6,039	AFMC/WR-ALC	C/IDIQ	UNKNOWN	Jan-09	Dec-10	Yes		
NVCD										
FY2006	2	\$275,000	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Sep-06	Jun-07			
FY2007	10	\$166,800	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Jan-08	May-08	Yes		
FY2008	15	\$145,200	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Feb-08	May-09	Yes		
FY2009	75	\$175,000	AFMC/ASC	SS/FFP	VSI/ SAN JOSE, CA	Feb-09	Jan-10	Yes		
PANORAMIC NIGHT VISION GOGGLES										
FY2006	145	\$65,980	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Sep-06	Jul-07			
FY2007	250	\$65,624	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-07	Dec-07			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	250	\$66,925	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-08	Oct-08	Yes		
FY2009	125	\$68,255	AFMC/ASC	SS/FFP	AF/ INSIGHT TECH/ LONDONDERRY, NH	Jan-09	Oct-09	Yes		
TEST SETS										
TEST SET, INFINITY FOCUS										
FY2006(3)	1	\$5,500	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jul-06	Jan-07			
FY2006(3)	112	\$4,895	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Sep-06	Mar-07			
FY2007(3)	3	\$5,500	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-07	Jul-07			
FY2008	10	\$5,914	AFMC/WR-ALC	SS/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-08	Jul-08	Yes		
FY2009(7)	1	\$6,192	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-09	Jul-09	Yes		
TEST SET, INFRARED VIEWER (ANV-126A)										
FY2006(3)	1	\$24,250	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jul-06	Jan-07			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(7)	10	\$24,250	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-07	Jul-07			
FY2008(7)	7	\$29,700	AFMC/WR-ALC	SS/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-08	Jul-08	Yes		
FY2009(7)	3	\$30,400	AFMC/WR-ALC	OPT/IDIQ	HOFFMANENG/ STAMFORD, CT	Jan-09	Jul-09	Yes		
<p><b>Remarks:</b>            Cost information is in actual dollars.</p> <p>(1) Basic Contract N00164-04-D-8530 awarded in FY04 w/4 option years            (2) Basic Contract FA8522-04-D-0015 awarded in FY04 w/4 option year            (3) Basic Contract F09603-02-D-0071 awarded in FY02 w/4 option years            (4) Basic Army Contract W9124Q-05-D00821 awarded FY05 w/4 option years            (5) Basic Army Contract W9124Q-05-D-0823 awarded FY05 w/4 option years            (6) Basic Navy Contract N00164-05-D-8554 awarded FY05 w/4 option years            (7) Basic Contract w/options to be awarded - In work.            (8) Contracts are split awards may award to ITT or NG (Litton).            (9) Basic contract FY04 extended. Basic expires 28 Mar 07, with an option to exercise 18 month option.            (10) New Contract Award</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$24,443	\$14,520	\$22,177	\$22,543	\$16,404	\$16,665	\$16,991	\$17,325
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. The Mechanized Material Handling Equipment line provides funding for Mechanized Material Handling Systems (MMHS) and Storage Aids Systems (SAS).</li> <li>2. 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.</li> <li>3. FY08 funding increase supports MMHS for Japanese Facilities Improvement Project (JFIP AF628), Air Freight Terminal - Inbound, Yokota AB, JA.</li> <li>4. The Air Force consolidated all AIT funds into P-1 line 24, General Information Technology, effective with FY08.</li> <li>5. 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.</li> </ol>								
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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MECHANIZED MATERIAL HANDLING EQUIPMENT			{ \$24,443 }		{ \$14,520 }		{ \$22,177 }		{ \$22,543 }
AIR COMBAT COMMAND (ACC)			{ \$768 }		{ \$900 }		{ \$2,000 }		{ \$1,870 }
STORAGE AIDS SYSTEM	A		{ \$213 }				{ \$750 }		{ \$1,470 }
HOLLOMAN AFB, NM			\$90						
MALMSTROM AFB, MT									\$250
MINOT AFB, ND							\$250		
MOODY AFB, GA (1)							\$200		\$350
MT HOME AFB, ID									\$220
NELLIS AFB, NV									\$300
SEYMOUR JOHNSON AFB, NC									\$250
SHAW AFB, SC									\$100
WRIGHT-PATTERSON AFB, OH							\$300		
VARIOUS			\$123						
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{ \$555 }				{ \$1,250 }		{ \$400 }

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**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
DAVIS MONTHAN AFB, AZ									\$400
MT HOME AFB, ID (1)							\$400		
DYESS AFB, TX			\$518						
OFFUTT AFB, NB (1)							\$300		
NELLIS AFB, NV (1)			\$37				\$550		
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A				{ \$900 }				
MOODY AFB, GA					\$900				
AIR EDUCATION & TRAINING COMMAND (AETC)			{ \$484 }		{ \$375 }		{ \$338 }		{ \$850 }
CONVEYOR SYSTEM	A								{ \$200 }
MAXWELL AFB, AL									\$200
STORAGE AIDS SYSTEM	A				{ \$375 }		{ \$338 }		{ \$650 }
ALTUS AFB, OK							\$200		\$100
COLUMBUS AFB, MS					\$125				

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**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
LACKLAND AFB, TX							\$138		
RANDOLPH AFB, TX									\$450
TYNDALL AFB, FL									\$100
VANCE AFB, OK (1)					\$250				
NARROW AISLE VEHICLE REPLACEMENT	A		{\$484}						
LACKLAND AFB, TX			\$484						
AF CIVIL ENGINEERING & SUPPORT AGENCY (AFCESA)			{\$146}		{\$225}				
STORAGE AIDS SYSTEM	A		{\$146}		{\$225}				
SEYMOUR JOHNSON AFB, NC			\$146						
RAMSTEIN AB, GE (1)					\$225				

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR FORCE MATERIEL COMMAND (AFMC)			{ \$1,270 }		{ \$2,179 }		{ \$1,972 }		{ \$2,425 }
HIGH DENSITY STORAGE SYSTEM	A		{ \$616 }		{ \$1,122 }		{ \$1,522 }		{ \$910 }
HILL AFB, UT			\$500		\$822		\$1,522		\$910
ROBINS AFB, GA					\$300				
WRIGHT-PATTERSON AFB, OH			\$116						
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{ \$170 }		{ \$500 }		{ \$450 }		{ \$1,515 }
EGLIN AFB, FL					\$250				
LACKLAND AFB, TX					\$250				
ROBINS AFB, GA			\$170				\$450		\$1,515
STORAGE AIDS SYSTEM	A		{ \$384 }		{ \$557 }				
HANSCOM AFB, MA					\$188				
HILL AFB, UT			\$354		\$169				
ROBINS AFB, GA			\$30		\$200				

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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

**DATE:** FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PTS	A		{ \$100 }						
HILL AFB, UT			\$100						
AIR FORCE RESERVE COMMAND (AFRC)			{ \$93 }						
AERIAL DELIVERY FACILITY	A		{ \$93 }						
PETERSON AFRC, CO			\$93						
AIR FORCE SPACE COMMAND (AFSPC)			{ \$421 }		{ \$571 }		{ \$350 }		
STORAGE AIDS SYSTEM	A		{ \$421 }		{ \$250 }		{ \$350 }		
ANTIGUA AIR STATION					\$100				
FE WARREN AFB, WY					\$150				
MALMSTROM AFB, MT			\$194						
MINOT AFB, ND			\$227						
PATRICK AFB, FL							\$150		

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SCHRIEVER AFB, CO							\$200		
OVERHEAD BRIDGE CRANES	A				{ \$321 }				
FE WARREN AFB, WY					\$321				
AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC)							{ \$223 }		
RECEIVING, STORAGE AND DISTRIBUTION SYSTEM	A						{ \$223 }		
KADENA AB, JA (1)							\$223		
AIR MOBILITY COMMAND (AMC)			{ \$7,138 }		{ \$5,275 }		{ \$11,278 }		{ \$11,258 }
AIR FREIGHT TERMINAL	A		{ \$6,845 }		{ \$2,400 }		{ \$9,778 }		{ \$10,758 }
ANDERSEN AFB, GUAM									\$750
CHARLESTON AFB, SC			\$5,282		\$2,100		\$300		
DOVER AFB, DE			\$651						
INCIRLIK AB, TU			\$500						

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
LAJES FIELD, AZORES					\$300				
NORFOLK NAS, VA			\$412						
ROTA AB, SP (1)									\$750
YOKOTA AB, JA (1)							\$9,478		\$9,258
BAGGAGE CONVEYOR SYS	A				{\$1,125}		{\$200}		
IWANKUNI MCAS, JA (1)					\$450				
KADENA AB, JA							\$200		
MILDENHALL RAF, UK					\$275				
YOKOTA AB, JA					\$400				
HIGH DENSITY STORAGE SYSTEM	A		{\$193}		{\$1,420}		{\$800}		
ANDREWS AFB, MD (1)							\$500		
DOVER AFB, DE (1)			\$193				\$300		
MCCHORD AFB, WA					\$250				

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRAVIS AFB, CA (1)					\$1,170				
STORAGE AIDS SYSTEM	A		{\$100}		{\$330}		{\$500}		{\$500}
AF WIDE			\$100				\$500		\$500
DOVER AFB, DE (1)					\$230				
MACDILL AFB, FL					\$100				
AIR NATIONAL GUARD (ANG)			{\$1,265}		{\$1,300}		{\$1,862}		{\$2,600}
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A								{\$500}
KINGSLEY FIELD ANGB, OR									\$500
AERIAL DELIVERY FACILITY	A		{\$480}						
NORTH KINGSTON ANGB, RI (1)			\$480						
HIGH DENSITY STORAGE SYSTEM	A		{\$100}				{\$300}		
CORAOPOLIS ANGB, PA							\$300		

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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
NORTH KINGSTON ANGB, RI (1)			\$100						
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{\$600}		{\$1,012}		{\$1,450}
BANGOR ANGB, ME (1)					\$300				
FAIRCHILD ANGB, WA (1)									\$300
HILO ANGB, HI					\$300				
MANSFIELD ANGB, OH (1)									\$300
MEMPHIS ANGB, TN (1)							\$212		
MERIDIAN ANGB, MS							\$200		
NEW ORLEANS ANGB, LA (1)							\$250		
ROSECRANS ANGB, MO (1)									\$500
SCOTT ANGB, IL (1)							\$350		
STRATTON ANGB, NY (1)									\$350
STORAGE AIDS SYSTEM	A		{\$685}		{\$700}		{\$550}		{\$650}

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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

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**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CHEYENNE ANGB, WY (1)					\$400				
CORAOPOLIS ANGB, PA							\$150		
DULUTH ANGB, MN									\$350
FORT BLISS ANGB, TX (SECURITY FORCES) (1)			\$250						
GREAT FALLS ANGB, MT							\$250		
MANSFIELD ANGB, OH									\$100
MARTINSBURG ANGB, WV (1)					\$300				
MEMPHIS ANGB, TN (1)							\$150		
NEW CASTLE ANGB, DE									\$200
RENO ANGB, NV (1)			\$215						
SIOUX FALLS ANGB, SD			\$220						
PACIFIC AIR FORCES (PACAF)			{ \$573 }		{ \$1,150 }		{ \$1,538 }		{ \$2,581 }
AIR MAIL CONVEYOR SYSTEM	A						{ \$663 }		
YOKOTA AB, JA (1)							\$663		

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CONVEYOR SYSTEM	A								{ \$1,181 }
KADENA AB, JA									\$1,181
AERIAL DELIVERY FACILITY	A								{ \$250 }
HICKAM AFB, HI									\$250
BRIDGE CRANE	A		{ \$197 }						
HICKAM AFB, HI			\$197						
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{ \$221 }		{ \$500 }		{ \$275 }		{ \$700 }
ANDERSEN AFB, GUAM							\$275		
ELMENDORF AFB, AK					\$500				
KADENA AB, JA (1)									\$700
OSAN AB, KO (1)			\$221						
STORAGE AIDS SYSTEM	A				{ \$650 }		{ \$600 }		

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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ANDERSEN AFB, GUAM							\$300		
ELMENDORF AFB, AK (1)					\$650				
HICKAM AFB, HI							\$300		
VEHICLE REPLACEMENT	A		{\$155}						{\$450}
EIELSON AFB, AK			\$155						
MISAWA AB, JA									\$450
US AIR FORCES EUROPE (USAFE)			{\$405}		{\$705}		{\$2,616}		{\$959}
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A						{\$2,146}		
RAF LAKENHEATH, UK							\$1,500		
SPANGDAHLEM AB, GE							\$646		
CONVEYOR SYSTEM	A								{\$326}
RAMSTEIN AB, GE									\$326

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HIGH DENSITY STORAGE SYSTEM	A				{\$305}				
RAMSTEIN AB, GE					\$305				
NARROW AISLE VEHICLE REPLACEMENT	A		{\$68}		{\$150}				
RAF LAKENHEATH, UK					\$150				
RAMSTEIN AB, GE			\$68						
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{\$250}		{\$300}		
RAF LAKENHEATH, UK							\$300		
RAMSTEIN AB, GE (1)					\$250				
STORAGE AIDS SYSTEM	A		{\$337}				{\$170}		{\$633}
RAF LAKENHEATH, UK									\$250
RAF MILDENHALL, UK									\$250

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
RAMSTEIN AB, GE			\$337				\$170		
SPANGDAHLEM AB, GE									\$133
USAF-WIDE/AIT			{ \$1,821 }		{ \$1,840 }				
CIVIL ENGINEERING FIRE PROTECTION	A		{ \$552 }						
TYNDALL AFB, FL			\$552						
COMBAT AMMUNITION SYSTEM	A				{ \$650 }				
AF WIDE					\$650				
CRYPTO INVENTORY CONTROL SYSTEM	A		{ \$269 }						
LACKLAND AFB, TX			\$269						
EXPLOSIVE ORDINANCE AIT	A				{ \$640 }				
AF WIDE					\$640				

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**BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)**

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OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

MECHANIZED MATERIAL HANDLING EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
POINT OF MAINTENANCE (POMX)	A		{ \$1,000 }		{ \$550 }				
AF WIDE			\$1,000		\$550				
POMX			{ \$3,000 }						
WORLDWIDE CONGRESSIONAL ADD	A		\$3,000						
SNT/UID			{ \$2,363 }						
AF WIDE	A		\$2,363						
ACTIVE RFID			{ \$3,498 }						
AF WIDE	A		\$3,498						
PASSIVE RFID			{ \$1,200 }						
AF WIDE	A		\$1,200						

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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TOTALS:			\$24,443		\$14,520		\$22,177		\$22,543

**Remarks:**  
 Cost information is in thousands of dollars.

(1) (MCP) - MMHS Projects associated with Military Construction Projects.

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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT				
	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$56,108	\$21,760	\$17,360	\$17,694	\$12,307	\$12,515	\$12,758	\$13,010
<p><b>Description:</b></p> <p>1. To reduce costs, federal policy relieves the services from wholesale management of non-military or commercial items. Bases and units throughout the Air Force acquire authorized equipment of this nature directly from the General Services Administration (GSA), Defense Logistics Agency (DLA), other services, or commercial sources. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing \$250,000 or more which is not centrally managed and procured. Typically BPE 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; and to satisfy air conditioning and heating requirements.</p> <p>2. The equipment described above is needed for day-to-day maintenance and operation of bases, and for weapons and support systems assigned to active, Air National Guard, and Air Force Reserve forces. The program supports installations 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 and safety; and energy conservation initiatives.</p> <p>3. BPE requirements programmed by Air Force major commands and/or field operating agencies are displayed on the following P-40A Budget Exhibit. Power Conditioning and Interfacing Equipment (PCCIE) funding moved from P-1 line 50 to Base Procured Investment Equipment in FY08.</p> <p>4. In FY07 Base Procured Investment Equipment received a \$10.4M Congressional Add in the FY07 Appropriations Conference Report 109-676 dated 25 September 2006.</p>								
	P-1 ITEM NO 55		PAGE NO: 28		Page 1 of 1			

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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

BASE PROCURED EQUIPMENT

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BASE PROCURED EQUIPMENT									
PACIFIC AIR FORCES	A		\$638		\$580		\$630		\$648
AIR FORCE MATERIEL CMD	A		\$357						
AF SPEC OPERATIONS CMD	A		\$666		\$604		\$652		\$669
AIR COMBAT CMD	A		\$4,617		\$2,891		\$3,117		\$3,238
US AIR FORCES EUROPE	A		\$734		\$665		\$722		\$743
AFSPC	A		\$521		\$474		\$519		\$522
AIR EDUCATION & TRNG CMD	A		\$46,611		\$9,267		\$4,784		\$4,789
US AIR FORCE ACADEMY	A		\$1,435		\$6,798		\$1,406		\$1,444
AF CIVIL ENGR SPT AGENCY	A		\$529		\$481		\$52		\$534
AIR FORCE WIDE/PCCIE	A						\$5,478		\$5,107
TOTALS:			\$56,108		\$21,760		\$17,360		\$17,694

**Remarks:**

Cost information is in thousands of dollars.

**P-1 ITEM NO**  
55

**PAGE NO:**  
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CONTINGENCY OPERATIONS				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$17,889	\$9,238	\$6,221	\$6,527	\$6,659	\$6,826	\$6,959	\$7,098
<p><b>Description:</b></p> <p>1. 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. ABO 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. ABO capabilities provided by robotics programs are crucial in reducing time and danger when investigating and eliminating explosive hazards.</p> <p style="margin-left: 20px;">A. 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.</p> <p style="margin-left: 20px;">B. ARTS Attachments/EOD Support Equipment/Man Transportable Robotics System (MTRS) 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.</p> <p>2. In FY06, Contingency operations received \$12.5M in additional funding under P.L. 109-234, the Emergency Supplemental Appropriation Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006.</p> <p>3. In FY07, Air Base Operability received a \$4.2M Congressional Add in the FY07 Appropriations Conference Report 109-676 dated 25 September 2006.</p>								
	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 30		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CONTINGENCY OPERATIONS		
<b>Description (continued):</b> 4. Items requested in FY08 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.				
	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 31	Page 2 of 2

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> CONTINGENCY OPERATIONS
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AIR BASE OPERABILITY													
A. ARTS / EOD EQUIPMENT				{ \$1,027 }			{ \$1,546 }			{ \$1,233 }			{ \$1,104 }
A.1. ARTS ENGINEERING CHANGE ORDERS (ECO)				\$723			\$886			\$713			\$764
A.2. INTERIM CONTRACTOR SUPPORT (ICS)				\$304			\$300			\$200			
A.3. PROGRAM SUPPORT							\$360			\$320			\$340
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT		148		{ \$16,862 }	97		{ \$3,492 }	34		{ \$4,988 }	37		{ \$5,423 }
B.1. DATA FEEDBACK SYSTEM (DFS)	A	49	\$43,612	\$2,137									
B.2. ARTS BOX RAKE	A				12	\$35,417	\$425						
B.3. ARTS TRAILERS	A	2	\$26,051	\$52	73	\$17,192	\$1,255						
B.4. SUBMUNITIONS CLEARANCE SYSTEM (SCS)	A										21	\$110,000	\$2,310
B.5. MAN TRANSPORTABLE ROBOTICS SYSTEM (MTRS)	A	14	\$155,207	\$2,173	12	\$151,000	\$1,812	34	\$146,706	\$4,988	15	\$150,000	\$2,250
B.5a MAN TRANSPORTABLE ROBOTICS SYSTEM (MTRS)	A	83	\$150,602	\$12,500									
B.6. NEXT GENERATION ROBOTICS	A										1	\$863,000	\$863
C. RADAR TEST SET, IDENTIFICATION FRIEND OR FOE													

	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 32	Page 1 of 2
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>										<b>DATE:</b> FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					<b>P-1 NOMENCLATURE:</b> CONTINGENCY OPERATIONS								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			FY2007			FY2008			FY2009		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
CONGRESSIONAL ADD -RADAR TEST SET	A				1	\$4,200,000	\$4,200						
<b>TOTALS:</b>				\$17,889			\$9,238			\$6,221			\$6,527
<p><b>Remarks:</b> Total Cost information is in thousands of dollars.</p>													
<b>P-1 ITEM NO</b> 57				<b>PAGE NO:</b> 33				Page 2 of 2					

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
AIR BASE OPERABILITY										
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT										
B.1. DATA FEEDBACK SYSTEM (DFS)										
FY2006(1)	49	\$43,612	AFMC/AAC	C/FFP W/OPT	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Aug-06	Apr-07			
B.2. ARTS BOX RAKE										
FY2007(1)	12	\$35,417	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Mar-07	Jun-07	Yes		
B.3. ARTS TRAILERS										
FY2006(2)	2	\$26,051	AFMC/AAC	C/IDIQ	LANDOLL CORPORATION/ MARYSVILLE, KS	Jun-06	Sep-06			
FY2007(2)	73	\$17,192	AFMC/AAC	DO/IDIQ	LANDOLL CORPORATION/ MARYSVILLE, KS	Mar-07	Jun-07	Yes		
B.4. SUBMUNITIONS CLEARANCE SYSTEM (SCS)										
		<b>P-1 ITEM NO</b> 57			<b>PAGE NO:</b> 34					Page 1 of 3

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(3)	21	\$110,000	AFMC/AAC	MIPR/OPT/FFP	NAVY/PRECISION REMOTE, INC/SAN FRANCISCO, CA	Apr-09	Aug-09	Yes		
B.5. MAN TRANSPORTABLE ROBOTICS SYSTEM (MTRS)										
FY2006(4)	83	\$150,602	HQ ACC	C/FFP W/OPT	REMOTEC, INC/OAK RIDGE, TN	May-06	Oct-06			
FY2006(4)	14	\$155,207	HQ ACC	MIPR/FFP W/OPT	NAVY/REMOTEC, INC/ OAK RIDGE, TN	May-06	Dec-06			
FY2007(4)	12	\$151,000	HQ ACC	DO/FFP W/OPT	REMOTEC, INC/OAK RIDGE, TN	Feb-07	Apr-07	Yes		
FY2008	34	\$146,706	HQ ACC	OPT/FFP	UNKNOWN	Dec-07	May-08	Yes		
FY2009	15	\$150,000	HQ ACC	OPT/FFP	UNKNOWN	Dec-08	Feb-09	Yes		
B.6. NEXT GENERATION ROBOTICS										
FY2009	1	\$863,000	HQ ACC	C/FFP W/OPT	UNKNOWN	Dec-08	Feb-09	Yes		
C. RADAR TEST SET, IDENTIFICATION FRIEND OR FOE										
CONGRESSIONAL ADD -RADAR TEST SET										
		<b>P-1 ITEM NO</b> 57			<b>PAGE NO:</b> 35			Page 2 of 3		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2007			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2007	1	\$4,200,000	AFMC/WR-ALC	C/FFP	UNKNOWN	Apr-07	Sep-07	Yes		
<p><b>Remarks:</b>                      Cost information is in actual dollars.</p> <p>(1) Data feedback systems for ARTS awarded Aug 2006 on F08635-02-C0100 P00048.                      (2) ARTS Trailer Contract FA8678-06-D0243 awarded LANDOLL CORPORATION/MARYSVILLE, KS in June 2006.                      (3) Basic Contract N00174-04-D-0001/FFP awarded 18 Dec 03. Reseach and Development contract with Production Options.                      (4) Mutiple 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>										
<b>P-1 ITEM NO</b> 57			<b>PAGE NO:</b> 36			Page 3 of 3				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PRODUCTIVITY CAPITAL INVESTMENTS				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$5,516	\$5,374	\$3,035	\$3,041	\$3,089	\$3,177	\$0	\$0
<p><b>Description:</b></p> <p>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.</p> <p>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.</p>								
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 37			Page 1 of 1		

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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**

OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**

PRODUCTIVITY CAPITAL INVESTMENTS

PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS									
1. PIF									
607TH COMBAT COMMUNICATIONS SQUADRON MODERNIZATION (PACAF)	A	1	\$3,487						
INSTALL CATM BULLET TRAP	A	1	\$521						
50 TON CAPACITY CRANE	A	1	\$581						
ENERGY SAVING WASHERS	A	1	\$362						
STANDARD ASSET TRACKING SYSTEM (SATS) UPGRADE PHASE I	A	1	\$399						
2. AF WIDE PROJECTS	A	1	\$166	1	\$5,374	1	\$3,035	1	\$3,041
TOTALS:		6	\$5,516	1	\$5,374	1	\$3,035	1	\$3,041

**Remarks:**

Cost information is in thousands of dollars.

**P-1 ITEM NO**  
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
1. PIF										
607TH COMBAT COMMUNICATIONS SQUADRON MODERNIZATION (PACAF)										
FY2006	1	\$3,487	HQ PACAF	DO/FFP	NORTHROP GRUMAN COMPUTING SYSTEM/ GREENBELT, MD	Aug-06	Mar-07			
INSTALL CATM BULLET TRAP										
FY2006	1	\$521	HQ USAFE	DO/FFP	ACTION TARGET/PROVO, UT	Apr-07	Jul-07	Yes		
50 TON CAPACITY CRANE										
FY2006	1	\$581	HQ PACAF	C/FFP	LBCE PARTNERSHIP LLLP/ LEXINGTON, KY	Oct-06	May-07			
STANDARD ASSET TRACKING SYSTEM (SATS) UPGRADE PHASE I										
FY2006(1)	1	\$399	HQ AETC	C/FFP	INTERMEC TECHNOLOGIES CORP/ WEST EVERETT, WA	Jan-07	May-07			
ENERGY SAVING WASHERS										
<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 39			Page 1 of 2				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2006(2)	1	\$362	HQ PACAF	C/FP	UNKNOWN	Jan-08	Feb-08	Yes		
PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS										
2. AF WIDE PROJECTS										
FY2006	1	\$166		/	UNKNOWN					
FY2007	1	\$5,374		/	UNKNOWN					
FY2008	1	\$3,035		/	UNKNOWN					
FY2009	1	\$3,041		/	UNKNOWN					
<p><b>Remarks:</b> Cost information is in thousands of dollars.</p> <p>(1) Intermec Technologies Corporation, Strategic and Government Programs Group, 6001 36th Ave, West Everett, WA 98203. Project will be for eight locations, Little Rock AFB, AR, Maxwell AFB, AL, Tyndall AFB, FL, Laughlin AFB, TX, Sheppard AFB, TX, Luke AFB, AZ, Randolph AFB, TX and Lackland AFB, TX</p> <p>(2) This project was not approved until 13 November 2006. 18th CONS at Kadena AB, Japan is in the midst of source selection and due to procurement integrity requirements, information is not releasable. As soon as the contractor is selected, award date and date first delivery will be provided.</p>										
<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 40			Page 2 of 2				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$44,838	\$25,913	\$36,932	\$27,537	\$33,601	\$50,111	\$31,459	\$32,079
<p><b>Description:</b></p> <p>1. <b>MOBILITY EQUIPMENT:</b> This program funds procurement of Basic Expeditionary Airfield Resources (BEAR). It includes equipment to support the beddown 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 (a) supports 150 personnel and provides an “open the airbase” capability until follow-on forces arrive. The BEAR 550 Initial (b) and BEAR 550 Follow-on (c) 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 Flightline (d) packages consist of airfield lighting, aircraft hangars, fire stations, and numerous additional systems to support flightline operations. Training Equipment (e) 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. Continued taskings of BEAR assets nearly depleted available inventory. Current procurements support the replacement and replenishment of this critical enabler. (FY08 funding requested for Training Equipment only)</p> <p>2. <b>MODERNIZATION:</b> 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). Increased FY08 funding reflects USAF's commitment to accelerate fielding of new water systems and start-up of new acquisitions for obsolete power generation and expeditionary airfield lighting systems.</p> <p>3. Items requested in FY08 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.</p>								
	<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 41		Page 1 of 1			

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2007			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: MOBILITY EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2006			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)		76		{\$44,838}	634		{\$25,913}	611		{\$36,932}	582		{\$27,537}
A. SWIFT BEAR 150	A	2	\$925,000	\$1,850									
B. BEAR 550 INITIAL HOUSEKEEPING	A	4	\$4,053,502	\$16,214									
C. BEAR 550 FOLLOW-ON HOUSEKEEPING	A	1	\$4,250,000	\$4,250									
D. BEAR FOLLOW-ON FLIGHTLINE	A	2	\$950,000	\$1,900									
E. TRAINING EQUIPMENT	A	1	\$1,422,000	\$1,422	1	\$1,328,636	\$1,329	1	\$1,707,000	\$1,707	1	\$1,266,000	\$1,266
SET AGGREGATION				\$8,114									
MODERNIZATION		66		{\$11,088}	633		{\$24,584}	610		{\$35,225}	581		{\$26,271}
HEATERS	A				532	\$3,277	\$1,743	532	\$3,374	\$1,795	532	\$3,475	\$1,849
FORCE MODULE WATER SYSTEM	A	66	\$168,000	\$11,088	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	28	\$571,546	\$16,003
EALS	A							5	\$861,800	\$4,309	5	\$880,000	\$4,400
TOTALS:				\$44,838			\$25,913			\$36,932			\$27,537
<b>Remarks:</b> Total Cost information is in thousands of dollars.													
<b>P-1 ITEM NO</b> 59				<b>PAGE NO:</b> 42				Page 1 of 1					

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>							
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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)														
SWIFT BEAR 150														
FY2006(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-06	Jan-07							
BEAR 550 INITIAL HOUSEKEEPING														
FY2006(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-06	May-06							
BEAR 550 FOLLOW-ON HOUSEKEEPING														
FY2006(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-06	May-06							
BEAR FOLLOW-ON FLIGHTLINE														
FY2006(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-06	May-06							
TRAINING EQUIPMENT														
FY2006(1-2)			AFMC/WR-ALC	OPT/FFP	MULTIPLE	Mar-06	Feb-07							
FY2007(1-2)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Mar-07	Feb-08	Yes						
FY2008(1-2)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Mar-08	Feb-09	Yes						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>P-1 ITEM NO</b> 59</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><b>PAGE NO:</b> 43</td> <td style="width: 20%; text-align: right;">Page 1 of 3</td> </tr> </table>											<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 43	Page 1 of 3
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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(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	Yes		
FY2009(3)			AFMC/WR-ALC	OPT/FFP	POLAR THERM/ LUVIA, FI	Dec-08	Feb-09	Yes		
FORCE MODULE WATER SYSTEM										
FY2006(4)			AFMC/WR-ALC	OPT/FFP	JGB ENTERPRISES INC./ LIVERPOOL, NY	Jul-06	Apr-07			
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	Yes		
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	Sep-07	Mar-09	Yes		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE: FEBRUARY 2007</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY2008			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Dec-07	Jun-09	Yes		
FY2009			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Dec-08	Sep-09	Yes		
EALS										
FY2008			AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Apr-08	Apr-09	Yes		
FY2009			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Dec-08	Sep-09	Yes		
SET AGGREGATION										
<b>Remarks:</b>										
<p>(1) Quantity/unit costs vary depending on types/configurations of equipment being procured.</p> <p>(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.</p> <p>(3) Basic Contract FA8533-05-D-0004 awarded Aug 2005 with 4 options.</p> <p>(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.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (BASE SUPPORT EQUIP)				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$28,658	\$41,021	\$53,876	\$16,305	\$14,686	\$18,269	\$17,283	\$21,471
<p><b>Description:</b></p> <p>1. 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.</p> <p>2. The Fuels Operational Readiness Capability Equipment (FORCE) module is a deployable fuel system that will provide joint capability to fuel aircraft and support equipment at austere locations. The module is capable of receiving, transferring, and issuing fuel at a throughput rate of 900 gallons per minute. The module consists of components that efficiently work in concert to produce the desired throughput. The components include: pumps, aircraft servicing platforms, filter separators, ground servicing platforms, automated tank gauges, and plumbing assemblies. Under this system concept, FORCE is modular and scalable to allow the Air Force to "right size" equipment requirements for each mission.</p> <p>3. 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.</p> <p>4. Increased FY08 funding procures initial equipment shortages of Aircrew Laser Eye Protection Equipment and Advance Concept Ejection Seat Equipment. FY08 funds also procures replacement equipment currently approaching obsolescence. 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (BASE SUPPORT EQUIP)			
<b>Description (continued):</b> 5. In FY07, Items Less Than \$5M recieved a \$10.3M Congressional Add in the FY 07 Appropriationss Conference Report 109-676 dated 25 September 2006.					
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## BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)

DATE: FEBRUARY 2007

**APPROP CODE/BA:**  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

**P-1 NOMENCLATURE:**  
ITEMS LESS THAN \$5 MILLION (BASE SUPPORT EQUIP)

PROCUREMENT ITEMS	NSN	FY2008		FY2009	
		QTY.	COST	QTY.	COST
ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)					
FUELS OPERATIONAL READINESS CAPABILITY EQUIP (FORCE)	4930015203848RN	13	\$32,000		
MEDICAL READINESS EQUIPMENT				1	\$1
MOBILE AIRCRAFT ARRESTING SYSTEM (MAAS)	1710012232235RN	2	\$1,370	2	\$1,412
TEST SET GROUP ELECTRONIC	6625011545040RH	2	\$663	14	\$4,740
FSC 1710 - AIRCRAFT ARRESTING SYS		1	\$477	2	\$837
FSC 3416 - LATHES		2	\$514		
FSC 3441 - BENDING AND FORMING MACHINES		3	\$1,280		
FSC 3470 - MACHINE SHOP SETS, KITS AND OUTFITS			\$754	1	\$485
FSC 4610 - WATER PURIFICATION EQUIPMENT		2	\$610		
FSC 4933 - WEAPONS MAINTENANCE & REPAIR SHOP SPECIALIZED EQP		3	\$1,295		
FSC 4920 - AIRCRAFT MAINTENANCE & SPECIALIZED EQUIP		2	\$1,650		
FSC 5411 - RIGGED WALL SHELTERS		7	\$1,759		

**P-1 ITEM NO**  
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (BASE SUPPORT EQUIP)
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<b>PROCUREMENT ITEMS</b>	<b>NSN</b>	<b>FY2008</b>		<b>FY2009</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
FSC 6115 - GENERATORS AND GENERATOR SETS, NONAIRBORNE		1	\$492	1	\$692
FSC 6625 - ELECTRICAL, ELECTRONIC MEASURING AND TESTING EQUIPMENT		1	\$275	1	\$553
LIFE SUPPORT EQUIPMENT					
ADVANCED CONCEPT EJECTION SEAT EQUIPMENT	NSL	2,600	\$4,950		\$3,500
AIRCREW LASER EYE PROTECTION EQUIPMENT	NSL	1,060	\$4,950		\$3,500
FSC 4240 - SAFETY AND RESCUE EQUIPMENT			\$839		\$586
<b>TOTALS:</b>			\$53,876		\$16,305

**Remarks:**  
 Cost information is in thousands of dollars.  
  
 FSC- Federal Stock Class

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DARP RC135				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$21,219	\$23,597	\$22,532	\$23,078	\$23,658	\$24,041	\$24,570	\$25,110
<b>Description:</b> 1. FY08-FY13 - 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. 2. In FY07, DARP RC135 received a \$2.5M Congressional Add in the FY07 Appropriations Conference Report 109-676 dated 25 September 2006.								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2007	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DISTRIBUTED GROUND SYSTEMS				
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$251,538	\$199,735	\$197,806	\$308,600	\$150,086	\$169,402	\$173,129	\$176,938
<p><b>Description:</b></p> <p>1. FY08-FY13 - 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.</p> <p>2. In FY07, DARP MRIGS received a \$5M Congressional Add in the FY07 Appropriations Conference Report 109-676 dated 25 September 2006.</p>								
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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2008/2009

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SPARES AND REPAIR PARTS

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2007		
<b>APPROP CODE/BA:</b> OPAF/SPARES AND REPAIR PARTS			<b>P-1 NOMENCLATURE:</b> SPARES & REPAIR PARTS					
	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$31,136	\$28,492	\$27,935	\$27,815	\$23,377	\$24,810	\$24,265	\$24,750
<p><b>Description:</b></p> <p>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.</p> <p>Items requested in FY08 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>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/SPARES AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES & REPAIR PARTS
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SPARES & REPAIR PARTS									
INITIAL SPARES			{\$31,136}		{\$28,492}		{\$27,935}		{\$27,815}
INFORMATION SYSTEMS SECURITY PROGRAM, PE 0303140F (P-1 LINE NO. 34)	A		\$1,099		\$1,344		\$1,345		\$7,415
AIR TRAFFIC CONTROL & LANDING SYS, PE 0305114F (P-1 LINE NO. 17)	A		\$2,431		\$2,775		\$9,078		\$2,731
NATIONAL AIRSPACE SYSTEM, PE 0305137F (P-1 LINE NO. 18)	A		\$5,039		\$5,388		\$5,498		\$5,623
WEATHER OBSERVATION/FORECAST, PE 0305111F (P-1 LINE NO. 20)	A		\$1,573		\$1,595		\$1,656		\$1,699
CHEYENNE MOUNTAIN COMPLEX, SPACETRACK, PE 0305906F (P-1 LINE NO. 22)	A		\$704		\$700		\$730		\$748
COMBAT AIR INTEL SYS ACTIVITIES, PE 0207431F (P1-LINE NO. 15)	A				\$115		\$118		\$124
MOBILE CONSOLIDATED COMMAND CENTER, PE 0305903F (P-1 LINE NO. 26)	A		\$628		\$665		\$692		\$708
COMBAT TRAINING RANGES, PE 0207429F (P-1 LINE NO. 28)	A		\$832		\$828		\$873		\$896
THEATER BATTLE MANAGEMENT C2 SYSTEMS, PE 0207438F (P-1 LINE NO. 32)	A		\$2,009		\$1,998				
NAVSTAR GPS (SPACE), PE 0305165F (P-1 LINE NO. 37)	A		\$333		\$324		\$340		\$348
AF SATELLITE CONTROL NETWORK, PE 0350110F (P-1 LINE NO. 39)	A		\$3,567		\$3,551				

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2007
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<b>APPROP CODE/BA:</b> OPAF/SPARES AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES & REPAIR PARTS
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PROCUREMENT ITEMS	ID CODE	FY2006		FY2007		FY2008		FY2009	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SPACELIFT RANGE SYSTEM (SPACE), PE 0305182F (P-1 LINE NO. 40)	A		\$2,860		\$2,793		\$2,932		\$2,998
MILSATCOM (SPACE), PE 0303601F (P-1 LINE NO. 41)	A		\$3,762		\$97				
TACTICAL CE EQUIPMENT, PE 0207423F & 0401840F (P-1 LINE NO. 44)	A		\$5,174		\$5,209		\$2,408		\$2,788
TV EQUIPMENT (AFRTV), PE 0808711F (P-1 LINE NO. 47)	A		\$262		\$261				
WRM-EQUIPMENT/SECONDARY ITEMS PE 0401135F (P-1 LINE NO. 59)	A		\$500		\$489		\$1,758		\$1,159
VEHICLES & SUPPORT EQUIPMENT, PE 0202834F	A		\$363		\$360		\$507		\$578
<b>TOTALS:</b>			\$31,136		\$28,492		\$27,935		\$27,815

**Remarks:**  
Cost information is in thousands of dollars.

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