

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE



# PROCUREMENT PROGRAM

FISCAL YEAR (FY) 2006/FY 2007  
BUDGET ESTIMATES

## OTHER PROCUREMENT

SUBMITTED TO CONGRESS FEBRUARY 2005

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

	<u>Page No.</u>
Table of Contents.....	i
Identification Codes and Glossary.....	ii
Appropriation Language.....	vii
AF Equipment Transformation Initiative.....	viii
Program Exhibit P-1.....	x

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

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

## **IDENTIFICATION CODES**

Code “A” - Line items of material which have been approved for Air Force service use.

Code “B” - Line items of material that have not been approved for Service use

## **GLOSSARY**

### Contract Method

ALLOT - Allotment

C - Competitive

DO - Delivery Order

FCA - Fund Cite Authorization

MIPR - Military Interdepartmental Purchase Request

OA - Obligation Authority

OPT - Option

OTH - Other

PO - Project Order

REQN - Requisition

SS - Sole Source

WP - Work Project

MIPR-OPT - Military Interdepartmental Purchase Request - Option

MIPR-C - Military Interdepartmental Purchase Request - Competitive

MIPR-SS - Military Interdepartmental Purchase Request - Sole Source

MIPR-OTH - Military Interdepartmental Purchase Request - Other

Contract Type

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

Contracted By

11 WING - 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 therefore, not otherwise provided for; the purchase of passenger motor vehicles and expansion of public and, 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, \$14,002,689,000 to remain available for obligation until September 30, 2008.



## AF Equipment Transformation Initiative

The Air Force accomplished a comprehensive review of its procurement appropriations to ensure warfighters can respond to emerging needs, while fully satisfying congressional expense/investment threshold limits. The result of this review was the transfer of \$3.2B in previously procurement funded assets to the O&M appropriation (Active, Air National Guard and Air Force Reserves). The end result is a decentralized, warfighter executed program. The funds transferred, by budget program were:

### SUMMARY OF INVESTMENT REDUCTION

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11
<b>BP 12 (3010) Acft Replacement SE</b>	108,712	113,067	101,385	103,272	105,162	107,171
<b>BP 17 (3010) War Consumables</b>	4,857	5,217	498	5,603	5,700	5,800
<b>BP 82 (3080) Vehicles</b>	241,800	234,142	284,064	292,413	290,987	293,745
<b>BP 83 (3080) Comm-Elect</b>	24,487	17,586	22,505	21,272	23,960	23,125
<b>BP 84 (3080) Other Base MX SE</b>	103,454	126,571	138,630	148,157	141,770	146,991
<b>BP 86 (3080) Replenishment Spares</b>	302	809	932	952	1,121	1,143
<b>Grand Total</b>	<b>483,612</b>	<b>497,392</b>	<b>548,014</b>	<b>571,669</b>	<b>568,700</b>	<b>577,975</b>

The above realigned funds, from procurement to O&M, came from the following P-1 lines. Many lines were completely transferred to O&M. However, where a line remains in the FY06/07 submission it is the result of the expense/investment threshold and/or centralized management practices calling for continued procurement funding. Additionally, the Items Less Than \$5M lines were consolidated, where appropriate, for the FY06/07 submission.

#### BA 02 – Vehicle P-1 # Line Item Description Equipment

- 3 Truck, Stake/Platform
- 4 Truck, Cargo-Utility 4X4
- 5 Truck, Cargo-Utility 4X2
- 6 Truck, Maintenance/Utility/Delivery Van
- 7 Truck, Carryall
- 10 Truck, Tractor over 5T
- 12 Items Less Than \$5M (Cargo-Utility)
- 13 Truck, Tank 1,200 Gal
- 14 Truck, Tank Fuel R-11
- 18 Tractor, A/C Tow MB-4
- 19 Tractor, Tow, Flightline

#### BA 02 – Vehicle Equipment

#### P-1 # Line Item Description

- 20 Truck, Hydrant Fuel
- 21 Items Less Than \$5M (Special Purpose)
- 23 Items Less Than \$5M (Fire Fighting)
- 24 Truck, F/L 6,000 LB
- 25 Truck, F/L 10,000 LB
- 27 Items Less Than \$5M (Material Handling Equipment)
- 28 Loader, Scoop
- 29 Loader, Scoop – w/Backhoe
- 30 Truck, Dump 5CY
- 32 Crane 7-50 Ton
- 33 Modifications
- 34 Items Less Than \$5M (Base Maintenance & Support)

**03 - Comm and Elec Equipemt**

**P-1 # Line Item Description**

- 39 Intellicenge Comm Equipment
- 46 TAC Signit Spt
- 48 General Information Technology
- 54 C3 Countermeasures
- 55 CGCSS-AF-FOS
  
- 59 USCENCOM
- 60 Automated Telecommunication Program
- 70 Radio Equipment
- 74 Items Less Than \$5M (Organization & Base)

**04 - Base Maint and Spt Equipment**

**P-1 # Line Item Description**

- 76 Base/ALC Calibration Package
- 77 Primary standards Laboratory Package
- 78 Items Less Than \$5M (Test Equipment)
- 80 Items Less Than \$5M (Personal Safety & Rescue)
- 82 Items Less Than \$5M (Base Industrial Spt Equipment)
- 83 Floodlights Set Type NF2D
- 84 Items Less Than \$5M (Electrical Equipment)
- 89 Photographic Equipment
- 91 Mobility Equipment
  
- 92 Air Conditioners
- 93 Items Less Than \$5M (Base Support Equipment)
- 95 Tech Surv Countermeasures Equipment
- 101 Modifications

DEPARTMENT OF THE AIR FORCE  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C	
			FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2005 COST	FY 2005 QUANTITY	FY 2005 COST	FY 2006 QUANTITY		FY 2006 COST
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT										
PASSENGER CARRYING VEHICLES										
1	ARMORED VEHICLE	A			2.5		.2		.5	U
2	PASSENGER CARRYING VEHICLES	A			15.5		11.8		14.4	U
CARGO + UTILITY VEHICLES										
3	TRUCK, STAKE/PLATFORM	A					8.3			U
4	TRUCK, CARGO-UTILITY, 3/4T, 4X	A			13.5		13.4			U
5	TRUCK, CARGO-UTILITY, 3/4T, 4X	A			4.4		7.8			U
6	TRUCK, MAINT/UTILITY/DELIVERY	A			9.3		9.0			U
7	TRUCK, CARRYALL	A			7.7		4.2			U
8	MEDIUM TACTICAL VEHICLE	A			14.8		15.3		13.1	U
9	HIGH MOBILITY VEHICLE (MYP)	A			4.1		7.5		3.3	U
10	TRUCK, TRACTOR, OVER 5T	A					14.0			U
11	CAP VEHICLES	A			.8		.8		.8	U
12	ITEMS LESS THAN \$5.0 MILLION (CARGO + UTIL)	A			36.2		24.6			U
SPECIAL PURPOSE VEHICLES										
13	TRUCK TANK 1200 GAL	A					5.8			U
14	TRUCK, TANK FUEL R-11	A			46.4		14.6			U
15	HMMWV, ARMORED	A			4.6		2.3		2.2	U
16	TRUCK, REFUSE	A					.5			U
17	HMMWV, UP-ARMORED	A			40.3		6.9		11.1	U
18	TRACTOR A/C TOW MB-4	A			6.9		11.1			U

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DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS				S E C			
			(DOLLARS) FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2005 COST	FY 2005 QUANTITY		FY 2006 COST	FY 2006 QUANTITY	
19	TRACTOR, TOW, FLIGHTLINE	A			7.6		6.8		U	
20	TRUCK HYDRANT FUEL	A			1.5		.1		U	
21	ITEMS LESS THAN \$5.0M (SPECIAL PURPOSE)	A			25.5		38.6		U	
FIRE FIGHTING EQUIPMENT										
22	FIRE FIGHTING/CRASH RESCUE VEH	A			6.2		16.1	21.4	U	
23	ITEMS LESS THAN \$5.0M (FIRE FIGHTING EQUIP)	A			4.6		8.3		U	
MATERIALS HANDLING EQUIPMENT										
24	TRUCK F/L 6000 LB	A					7.4		U	
25	TRUCK, F/L 10,000 LB	A			13.1		25.5		U	
26	HALVERSEN LOADER	A			38.3		16.9	16.3	U	
27	ITEMS LESS THAN \$5.0M	A			8.8		12.1		U	
BASE MAINTENANCE SUPPORT										
28	LOADER, SCOOP	A			6.0		9.4		U	
29	LOADER- SCOOP- W/BACKHOE	A					4.2		U	
30	TRUCK, DUMP 5CY	A			6.3		10.6		U	
31	RUNWAY SNOW REMOVAL & CLEANING	A			19.3		22.5	22.0	U	
32	CRANE 7-50 TON	A					5.8		U	
33	MODIFICATIONS	A			.6		4.5		U	
34	ITEMS LESS THAN \$5.0M (VEH)	A			17.3		33.9	10.5	U	
CANCELLED ACCOUNT ADJUSTM										
35	CANCELLED ACCOUNT ADJUSTMENTS	A			.1				U	
TOTAL VEHICULAR EQUIPMENT						362.1		380.9	115.6	

PAGE F-20

DEPARTMENT OF THE AIR FORCE  
FY 2006 PROCUREMENT PROGRAM

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APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C
			FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2005 COST	FY 2005 QUANTITY	FY 2006 COST	FY 2006 QUANTITY	
BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIP									
-----									
COMM SECURITY EQUIPMENT(COMSEC)									
36	COMSEC EQUIPMENT	A		29.3	34.3			58.2	U
37	MODIFICATIONS (COMSEC)	A		.9	.5			2.4	U
INTELLIGENCE PROGRAMS									
38	INTELLIGENCE TRAINING EQUIP	A		2.9	2.9			4.7	U
39	INTELLIGENCE COMM EQUIPMENT	A		18.5	1.7			1.5	U
ELECTRONICS PROGRAMS									
40	TRAFFIC CONTROL/LANDING	A		32.0	4.4			16.8	U
41	NATIONAL AIRSPACE SYSTEM	A		26.9	40.4			51.9	U
42	THEATER AIR CONTROL SYS IMPROV	A		97.4	52.4			76.8	U
43	WEATHER OBSERVATION FORECAST	A		32.6	30.3			35.7	U
44	STRATEGIC COMMAND AND CONTROL	A		44.9	48.0			44.7	U
45	CHEYENNE MOUNTAIN COMPLEX	A		20.5	15.6			23.0	U
46	TAC SIGINT SPT	A		.4	.4				U
47	DRUG INTERDICTION SPT	A		8.4	.4			.4	U
SPECIAL COMM-ELECTRONICS PROJECTS									
48	GENERAL INFORMATION TECHNOLOGY	A		79.7	107.6			111.0	U
49	AF GLOBAL COMMAND & CONTROL SYS	A		27.3	16.2			11.9	U
50	MOBILITY COMMAND AND CONTROL	A		9.2	8.9			9.5	U
51	AIR FORCE PHYSICAL SECURITY SYS	A		42.5	94.8			35.9	U
52	COMBAT TRAINING RANGES	A		83.1	31.8			36.1	U

PAGE F-21

DEPARTMENT OF THE AIR FORCE  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C
			FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2004 COST	FY 2005 QUANTITY	FY 2005 COST	FY 2006 QUANTITY	
53	MINIMUM ESSENTIAL EMERGENCY COM	A						20.5	U
54	C3 COUNTERMEASURES	A			9.2		11.8	4.5	U
55	GCSS-AF FOS	A			16.4		18.4	12.7	U
56	THEATER BATTLE MGT C2 SYSTEM	A			44.0		41.4	41.7	U
57	AIR OPERATIONS CENTER (AOC)	A			45.6		42.8	21.8	U
AIR FORCE COMMUNICATIONS									
58	BASE INFO INFRASTRUCTURE	A			281.2		359.7	374.9	U
59	USCENTCOM	A			28.9		48.0	31.1	U
60	AUTOMATED TELECOMMUNICATIONS	A			14.3		8.3		U
DISA PROGRAMS									
61	SPACE BASED IR SENSOR PGM SPACE	A			94.7			3.7	U
62	NAVSTAR GPS SPACE	A			10.3		10.2	9.1	U
63	NUDET DETECTION SYS SPACE	A			10.7		7.5	9.4	U
64	AF SATELLITE CONTROL NETWORK	A			48.5		43.3	51.8	U
65	SPACELIFT RANGE SYSTEM SPACE	A			82.2		104.1	114.2	U
66	MILSATCOM SPACE	A			44.3		14.9	28.7	U
67	SPACE MODS SPACE	A			24.4		16.2	25.1	U
ORGANIZATION AND BASE									
68	TACTICAL C-E EQUIPMENT	A			194.7		132.1	131.1	U
69	COMBAT SURVIVOR EVADER LOCATER	A			7.4		13.9	24.7	U
70	RADIO EQUIPMENT	A			9.1		12.5	7.5	U
71	TV EQUIPMENT (AFRTV)	A			2.6		5.1	5.9	U
72	CCTV/AUDIOVISUAL EQUIPMENT	A			4.7		3.3	3.2	U

PAGE F-22

DEPARTMENT OF THE AIR FORCE  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C	
			FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2004 COST	FY 2005 QUANTITY	FY 2005 COST	FY 2006 QUANTITY		FY 2006 COST
73	BASE COMM INFRASTRUCTURE	A			160.9		109.4	107.0	U	
74	ITEMS LESS THAN \$5.0M	A			5.9		5.9	3.7	U	
MODIFICATIONS										
75	COMM ELECT MODS	A			37.7		23.3	24.7	U	
TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIP					1,734.5		1,522.6	1,577.5		
BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIP										
TEST EQUIPMENT										
76	BASE/ALC CALIBRATION PACKAGE	A			12.8		15.1		U	
77	PRIMARY STANDARDS LABORATORY	A			1.1		1.1		U	
78	ITEMS LESS THAN \$5.0M (TEST EQUIPMENT)	A			8.4		7.6		U	
PERSONAL SAFETY AND RESCUE EQUIP										
79	NIGHT VISION GOGGLES	A			81.4		17.3	12.0	U	
80	ITEMS LESS THAN \$5.0M (SAFETY + RESCUE)	A			19.2		23.9		U	
DEPOT PLANT + MATERIALS HANDLING EQ										
81	MECHANIZED MATERIAL HANDLING EQUIPMENT	A			38.9		22.1	14.6	U	
82	ITEMS LESS THAN \$5.0M (DEPOT PLANT)	A			11.2		6.5		U	
ELECTRICAL EQUIPMENT										
83	FLOODLIGHTS SET TYPE NF2D	A			5.3		5.9		U	
84	ITEMS LESS THAN \$5.0M (ELECTRICAL EQUIP)	A			12.9		9.8		U	
BASE SUPPORT EQUIPMENT										
85	BASE PROCURED EQUIPMENT	A			67.5		11.4	23.2	U	
86	MEDICAL/DENTAL EQUIPMENT	A			33.7		14.0	14.7	U	

PAGE F-23

DEPARTMENT OF THE AIR FORCE  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS				S E C	
			(DOLLARS) FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2005 COST	FY 2005 QUANTITY		FY 2006 COST
87	ENVIRONMENTAL PROJECTS	A			.7			U
88	AIR BASE OPERABILITY	A			21.1	5.4	5.5	U
89	PHOTOGRAPHIC EQUIPMENT	A			5.4	1.4		U
90	PRODUCTIVITY CAPITAL INVESTMENT	A			3.0	5.5	5.3	U
91	MOBILITY EQUIPMENT	A			114.6	267.1	23.4	U
92	AIR CONDITIONERS	A			9.4	1.4		U
93	ITEMS LESS THAN \$5.0M	A			41.2	18.7	28.7	U
	SPECIAL SUPPORT PROJECTS							
94	PRODUCTION ACTIVITIES	A						
95	TECH SURV COUNTERMEASURES EQMT	A			17.3	4.0		U
96	DARP RC135	A			16.7	18.7	21.5	U
97	DARP, MRIGS	A			194.2	119.5	148.0	U
98	SELECTED ACTIVITIES	A						
99	SPECIAL UPDATE PROGRAM	A			218.5	224.1	270.8	U
100	DEFENSE SPACE RECONNAISSANCE PROGRAM	A			14.0	14.2	14.6	U
101	MODIFICATIONS	A			.2	.2		U
102	FIRST DESTINATION TRANSPORTATION	A			4.9	5.7		U
	TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIP				12,784.1	11,967.3	12,279.2	
	BUDGET ACTIVITY 05: SPARES AND REPAIR PARTS							
	SPARES AND REPAIR PARTS							
103	SPARES AND REPAIR PARTS	A			32.7	40.9	30.3	U



DEPARTMENT OF THE AIR FORCE  
 FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 03 FEB 2005

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C
			FY 2006 UNIT COST	FY 2004 QUANTITY	FY 2005 QUANTITY	FY 2005 COST	FY 2006 QUANTITY	FY 2006 COST	
104	REPLENISHMENT SPARES	A		.3		.3			U
	TOTAL SPARES AND REPAIR PARTS			33.0		41.2		30.3	
	TOTAL OTHER PROCUREMENT, AIR FORCE			14,913.6		13,912.1		14,002.7	

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

VEHICULAR EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
1	Armored Vehicle .....	1
2	Passenger Carrying Vehicles .....	4
8	Medium Tactical Vehicle .....	21
9	High Mobility Vehicle .....	26
11	CAP Vehicles .....	29
15	HMMWV, Armored .....	30
17	HMMWV, Up-Armored .....	33
22	Fire Fighting/Crash Rescue Vehicles .....	36
26	Halvorsen Loader .....	42
31	Runway Snow Removal and Cleaning .....	45
34	Items Less Than \$5 Million (Vehicles) .....	50

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>	16	1	2	2	2	2	2	2
<b>COST</b> (in Thousands)	\$2,480	\$249	\$503	\$510	\$522	\$533	\$546	\$554
<p><b>Description:</b></p> <p>The Air Force Office of Special Investigations (AFOSI) has responsibility for non-tactical Heavy Armored Vehicles (HAVs) for the Air Force. The HAVs are used during Protective Service Operations (PSO) to transport permanent party, visiting senior military, DOD civilian officials, and senior Executive and Legislative Branch dignitaries within designated high terrorist threat areas. Examples of people supported: The President of the United States, members of Congress, dignitaries from federal agencies such as the Secretary of Treasury, Secretary/Under Secretaries of Defense, Secretary of the Air Force, Secretary of the Army, Chief of Staff of the Air Force, Vice Chief of Staff of the Air Force, Army Chief of Staff, and other military command officials.</p> <p>HAV requirements are determined from threat assessments and vulnerability surveys of terrorist threats which are fully investigated and validated by U.S./foreign, federal and military (e.g., CIA and DOD) counterintelligence and antiterrorism experts. Based on the current threat assessment, AFOSI continues to have a validated global requirement for 13 HAVs. All the vehicles are located overseas. AFOSI has sole responsibility for Air Force HAV assets and maintains a rapidly aging fleet. Vehicles with factory-installed armor include strengthened suspension and brakes required to hold the weight of armor. Purchasing HAVs with factory- installed armoring reduces the risk of mechanical and armoring problems known to occur with after-market modified HAVs and preserves the vehicle warranty.</p> <p>Our total inventory objective for Armored Vehicles is 13. FY06 purchases two Armored Vehicles. HAV requirements are two per year across the FYDP. The P-1 reflects one per year and is in error. AF will update the database during the FY07 PB submission.</p>								
	<b>P-1 ITEM NO</b> 1		<b>PAGE NO:</b> 1			Page 1 of 1		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLE
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HEAVY ARMORED SEDAN GERMANY	A	1	\$210	1	\$249	2	\$503	2	\$510
HEAVY ARMORED SEDAN GERMANY	A	4	\$1,000						
LIGHT ARMORED SUBURBANS	A	11	\$1,270						
<b>TOTALS:</b>		16	\$2,480	1	\$249	2	\$503	2	\$510

**Remarks:**

Cost information is in thousands of dollars.

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

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLE							
ITEM / 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	
HEAVY ARMORED SEDAN GERMANY										
FY2004	4	\$250,000	AFMC/WR-ALC	FCA/FFP	DAIMLER/CHRYSLER/BERLIN , GERMANY	May-04	Oct-04			
FY2004	1	\$209,995	AFMC/WR-ALC	FCA/FFP	DAIMLER/CHRYSLER/BERLIN , GERMANY	Jul-04	Dec-04			
FY2005(1)	1	\$249,000	AFMC/WR-ALC	FCA/FFP	(UNKNOWN)	May-05	Dec-05	Yes		
FY2006(1)	2	\$251,500	AFMC/WR-ALC	FCA/FFP	(UNKNOWN)	May-06	Dec-06	Yes		
FY2007(1)	2	\$255,000	AFMC/WR-ALC	FCA/FFP	(UNKNOWN)	May-07	Dec-07	Yes		
LIGHT ARMORED SUBURBANS										
FY2004	11	\$115,455	AFMC/WR-ALC	FCA/FFP	SQUARE ONE ARMORING SERVICES/MIAMI, FL	May-04	Jul-04			
<p><b>Remarks:</b>                      Cost information is in actual dollars.</p> <p>(1) Contracting for this item is a lengthy process because it is an overseas procurement. Procurement is accomplished in the European theater and conducted through various vendors based on locality needs and specific requirements. Vendors include Mercedes and BMW.</p>										
<b>P-1 ITEM NO</b> 1			<b>PAGE NO:</b> 3			Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$15,511	\$11,826	\$14,399	\$14,965	\$17,977	\$17,688	\$18,711	\$17,819	
<p><b>Description:</b></p> <p>Passenger Carrying Vehicles 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:</p> <p><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.</p> <p><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 for some high security areas located near missile installations. They are also used in the maintenance and flying operation areas to support aircraft sortie generation.</p> <p><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.</p> <p><b>Ambulances</b> include both bus ambulances and modular ambulances which 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 which 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.</p> <p><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</p>									
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 4		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES			
<b>Description (continued):</b> <p>52 passenger bus. These vehicles support protocol offices, Air Force band organizations, Air Education and Training Command training units, and several other missions.</p> <p>Failure to provide these vehicles will reduce support to a wide spectrum of Air Force peacetime taskings and wartime mission requirements.</p> <p>Total inventory objective for Passenger Carrying Vehicles is 3547. Our current procurement requirement for shortages and replacements is 1,631. FY06 purchases 228 passenger carrying vehicles.</p> <p>Passenger Carrying Vehicles received \$2,013K in the FY04 supplemental.</p>					
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 5		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
LARGE SEDAN, UNITED STATES	A					1	\$19		
MIDSIZE SEDAN, UNITED STATES	A			2	\$34	2	\$34	8	\$140
MIDSIZE SEDAN, KOREA	A	1	\$25						
MIDSIZE SEDAN, USAFE	A	1	\$22	6	\$155	4	\$93		
COMPACT SEDAN, UNITED STATES	A	10	\$117	13	\$185	5	\$61	20	\$254
COMPACT SEDAN, JAPAN	A	6	\$66	9	\$99				
COMPACT SEDAN, ITALY	A	5	\$85						
SUBCOMPACT SEDAN, UNITED STATES	A	1	\$32	3	\$81	1	\$116	1	\$123
L.E. SEDAN, UNITED STATES	A	46	\$860	55	\$1,069	30	\$507	10	\$324
L.E. SEDAN, JAPAN	A	3	\$40	4	\$54	6	\$84	8	\$116
L.E. SEDAN, ITALY	A	3	\$85						
L.E. SEDAN, UNITED STATES	A			6	\$153	4	\$105	3	\$107
STATION WAGON, UNITED STATES	A	2	\$40	14	\$272	6	\$116	6	\$119

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 6		Page 1 of 4
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# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STATION WAGON, JAPAN	A	13	\$157	3	\$41			3	\$49
STATION WAGON, GERMANY	A			10	\$91				
STATION WAGON, UNITED STATES, BIFUEL	A			2	\$46	2	\$56	1	\$30
STATION WAGON, UNITED STATES, E-85	A	21	\$527						
COMPACT SEDAN, UNITED STATES, BIFUEL	A					1	\$14	1	\$15
COMPACT SEDAN, SINGAPORE	A			3	\$51				
BUS, 41 PAX US	A	3	\$992	2	\$604	5	\$1,627	18	\$6,282
BUS, 16 PAX US	A	12	\$740	5	\$252	1	\$58	3	\$181
BUS, 16 PAX JAPAN	A	2	\$9						
BUS, 16 PAX US BIFUEL	A			3	\$148	3	\$241		
BUS, 28 PAX	A	50	\$4,647	47	\$2,884	38	\$2,892	10	\$984
BUS, 28 PAX US CNG	A	3	\$287	5	\$405	4	\$346		
BUS, 28 PAX JAPAN	A			5	\$350				

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 7		Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BUS, 44 PAX US	A	35	\$3,179	32	\$1,988	35	\$2,800	22	\$1,851
BUS, 44 PAX US CNG	A			8	\$746	2	\$197		
BUS, 44 PAX JAPAN	A			2	\$139	1	\$75	2	\$151
BUS, 44 PAX MED US	A	4	\$510			1	\$116	9	\$1,160
BUS, 23 PAX SURREY	A	1	\$1	2	\$120	3	\$175	2	\$137
AMB, 44 PAX CONV US	A	4	\$437	3	\$263	9	\$903	13	\$1,436
AMB, MOD 4X4	A	20	\$1,661	14	\$1,006	27	\$2,150	6	\$579
AMB, MOD 4X4 JAPAN	A	1	\$79			2	\$153		
AMB, MOD 4X2 US	A	5	\$402	2	\$134	5	\$394	4	\$363
BUS, 41 PAX JAPAN	A					1	\$351		
AMB, MOD 4X2 JAPAN	A							4	\$563
COMPACT SEDAN, OFFICE OF SPECIAL INVESTIGATIONS (OSI)	A	17	\$511	24	\$457	29	\$716		
<b>TOTALS:</b>		269	\$15,511	284	\$11,826	228	\$14,399	154	\$14,965

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 8	Page 3 of 4
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES							
ITEM / 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	
LARGE SEDAN, UNITED STATES										
FY2006	1	\$18,722	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-06	Jul-06	Yes		
MIDSIZE SEDAN, UNITED STATES										
FY2005	2	\$16,775	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-05	Jul-05	Yes		
FY2006	2	\$17,131	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-06	Jul-06	Yes		
FY2007	8	\$17,487	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-07	Aug-07	Yes		
MIDSIZE SEDAN, KOREA										
FY2004	1	\$25,254	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWN)	Dec-04	Jun-05			
MIDSIZE SEDAN, USAFE										
FY2004	1	\$22,367	AFMC/WR-ALC	FCA/FFP	USAFE (FORD-WERKE)/STRASSE, GE	May-04	Aug-04			
FY2005	6	\$25,784	AFMC/WR-ALC	FCA/FFP	UNKNOWN	Mar-05	Oct-05	Yes		
FY2006	4	\$23,306	AFMC/WR-ALC	FCA/FFP	UNKNOWN	Mar-06	Oct-06	Yes		

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 10	Page 1 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES						
ITEM / 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										
FY2004	10	\$11,724	AFMC/WR-ALC	MIPR/FFP	GSA/GSA/GM/DETROIT, MI	Apr-04	May-04			
FY2005	13	\$14,239	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-05	Jun-05	Yes		
FY2006	5	\$12,244	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
FY2007	20	\$12,700	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
COMPACT SEDAN, JAPAN										
FY2004	6	\$11,000	AFMC/WR-ALC	MIPR/FFP	NAVY (NISSAN)/TOKYO, JA	Sep-04	Dec-04			
FY2005	9	\$11,038	AFMC/WR-ALC	MIPR/FFP	NAVY (UNKNOWN)	Apr-05	May-05	Yes		
COMPACT SEDAN, ITALY										
FY2004	5	\$16,943	AFMC/WR-ALC	FCA/FFP	USAFE (THOMAS HEILMAN)/ENKENBACH, GE	Dec-03	Jun-04			
COMPACT SEDAN, OFFICE OF SPECIAL INVESTIGATIONS (OSI)										
FY2004	17	\$30,057	AFMC/WR-ALC	FCA/FFP	OSI (TOYOTA)/TOKYO, JA	May-04	Aug-04			
FY2005	24	\$19,023	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	Apr-05	Jun-05	Yes		
<b>P-1 ITEM NO</b> 2					<b>PAGE NO:</b> 11		Page 2 of 11			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES							
ITEM / 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	29	\$24,689	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	Apr-06	Jun-06	Yes		
COMPACT SEDAN, UNITED STATES, BIFUEL										
FY2006	1	\$14,038	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Apr-06	Jul-06	Yes		
FY2007	1	\$15,450	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Apr-07	Jul-07	Yes		
COMPACT SEDAN, SINGAPORE										
FY2005	3	\$17,034	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWN)	Mar-05	Oct-05	Yes		
SUBCOMPACT SEDAN, UNITED STATES										
FY2004	1	\$31,813	AFMC/WR-ALC	FCA/FFP	HILLTOP BUICK/RICHMOND, CA	Jun-04	Jul-04			
FY2005	3	\$26,845	AFMC/WR-ALC	FCA/FFP	GSA (UNKNOWN)	Apr-05	May-05	Yes		
FY2006	1	\$116,000	AFMC/WR-ALC	FCA/FFP	HQ ACC/UNKNOWN	Apr-06	May-06	Yes		
FY2007	1	\$123,000	AFMC/WR-ALC	FCA/FFP	HQ ACC/UNKNOWN	Apr-07	May-07	Yes		
L.E. SEDAN, UNITED STATES										
FY2004	46	\$18,691	AFMC/WR-ALC	MIPR/FFP	GSA/GM/DETROIT, MI	Jan-04	May-04			
		<b>P-1 ITEM NO</b> 2			<b>PAGE NO:</b> 12			Page 3 of 11		

**UNCLASSIFIED**

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES
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ITEM / 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
FY2005	55	\$19,430	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-05	May-05	Yes	
FY2006	30	\$16,901	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Jan-06	May-06	Yes	
FY2007	10	\$32,400	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Jan-07	May-07	Yes	
L.E. SEDAN, JAPAN									
FY2004	3	\$13,467	AFMC/WR-ALC	MIPR/FFP	NAVY/TOYOTA/TOKYO, JA	Aug-04	Nov-04		
FY2005	4	\$13,521	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Apr-05	Jun-05	Yes	
FY2006	6	\$14,033	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Apr-06	Jun-06	Yes	
FY2007	8	\$14,550	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Apr-07	Jun-07	Yes	
L.E. SEDAN, ITALY									
FY2004	3	\$28,482	AFMC/WR-ALC	FCA/FFP	THOMAS HEILMAN/ENKENBACH, GE	Feb-04	May-04		
L.E. SEDAN, UNITED STATES									
FY2005	6	\$25,469	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Apr-05	Jun-05	Yes	
FY2006	4	\$26,249	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Apr-06	Jun-06	Yes	

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 13	Page 4 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES							
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007	3	\$35,801	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Apr-07	Jun-07	Yes		
STATION WAGON, UNITED STATES										
FY2004	2	\$20,001	AFMC/WR-ALC	MIPR/FFP	GSA/FORD/DETROIT, MI	Jan-04	Apr-04			
FY2005	14	\$19,458	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-05	Jun-05	Yes		
FY2006	6	\$19,382	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
FY2007	6	\$19,801	AFMC/WR-ALC	MIPR/FFP	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
STATION WAGON, JAPAN										
FY2004	13	\$12,070	AFMC/WR-ALC	MIPR/FFP	NAVY/OKINAWA MAZDA/OKINAWA, JA	Nov-04	Feb-05			
FY2005	3	\$13,549	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Apr-05	Jun-05	Yes		
FY2007	3	\$16,495	AFMC/WR-ALC	MIPR/FFP	NAVY/UNKNOWN	Apr-07	Jun-07	Yes		
STATION WAGON, GERMANY										
FY2005	10	\$9,124	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWN)	Mar-05	Sep-05	Yes		

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 14	Page 5 of 11
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES							
ITEM / 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	
STATION WAGON, UNITED STATES, BIFUEL										
FY2005	2	\$23,205	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/UNKNOWN	Mar-05	Jun-05	Yes		
FY2006	2	\$27,802	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
FY2007	1	\$30,371	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
STATION WAGON, UNITED STATES, E-85										
FY2004	21	\$25,095	AFMC/WR-ALC	MIPR/FFP	GSA/FORD/CHICAGO, IL	Mar-04	Jul-04			
BUS, 41 PAX US										
FY2004	3	\$330,600	AFMC/WR-ALC	MIPR/IDIQ	GSA/BLUE BIRD/FT VALLEY, GA	Mar-04	Jan-05			
FY2005	2	\$302,003	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Jan-06	Yes		
FY2006	5	\$325,409	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Jan-07	Yes		
FY2007	18	\$349,000	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Jan-08	Yes		
BUS, 41 PAX JAPAN										
FY2006	1	\$350,568	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Apr-06	Oct-06	Yes		
		<b>P-1 ITEM NO</b> 2			<b>PAGE NO:</b> 15			Page 6 of 11		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES							
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
BUS, 16 PAX US										
FY2004	12	\$61,667	AFMC/WR-ALC	MIPR/IDIQ	GSA/BLUE BIRD/FT VALLEY, GA	Mar-04	Aug-04			
FY2005	5	\$50,383	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-05	Aug-05	Yes		
FY2006	1	\$57,842	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-06	Aug-06	Yes		
FY2007	3	\$60,365	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-07	Aug-07	Yes		
BUS, 16 PAX JAPAN										
FY2004	2	\$4,300	AFMC/WR-ALC	MIPR/FFP	NAVY/PACAF (TOYOTA)/TOKYO, JA	Aug-04	Oct-04			
BUS, 16 PAX US BIFUEL										
FY2005	3	\$49,307	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Jun-05	Yes		
FY2006	3	\$80,426	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
BUS, 28 PAX										
FY2004	50	\$92,946	AFMC/WR-ALC	MIPR/IDIQ	GSA/THOMAS BULIT/HIGH POINT, NC	Mar-04	Aug-04			
FY2005	47	\$61,357	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Aug-05	Yes		

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 16	Page 7 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES
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ITEM / 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	38	\$76,098	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Aug-06	Yes	
FY2007	10	\$98,350	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Aug-07	Yes	
BUS, 28 PAX US CNG									
FY2004	3	\$95,667	AFMC/WR-ALC	MIPR/IDIQ	GSA/THOMAS BULIT/HIGH POINT, NC	Mar-04	Aug-04		
FY2005	5	\$81,081	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-05	Jun-05	Yes	
FY2006	4	\$86,577	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-06	Jun-06	Yes	
BUS, 28 PAX JAPAN									
FY2005	5	\$70,025	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Apr-05	Jun-05	Yes	
BUS, 44 PAX US									
FY2004	35	\$90,836	AFMC/WR-ALC	MIPR/IDIQ	GSA/THOMAS BULIT/HIGH POINT, NC	Mar-04	Sep-04		
FY2005	32	\$62,117	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Sep-05	Yes	
FY2006	35	\$79,993	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Sep-06	Yes	
FY2007	22	\$84,117	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Sep-07	Yes	

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 17	Page 8 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES							
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
BUS, 44 PAX US CNG										
FY2005	8	\$93,253	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Jul-05	Yes		
FY2006	2	\$98,250	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Jul-06	Yes		
BUS, 44 PAX JAPAN										
FY2005	2	\$69,626	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Apr-05	Jun-05	Yes		
FY2006	1	\$75,178	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Apr-06	Jun-06	Yes		
FY2007	2	\$75,694	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Apr-07	Jun-07	Yes		
BUS, 44 PAX MED US										
FY2004	4	\$127,511	AFMC/WR-ALC	MIPR/IDIQ	GSA/BLUE BIRD/FT VALLEY, GA	Apr-04	Oct-04			
FY2006	1	\$116,449	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
FY2007	9	\$128,907	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
BUS, 23 PAX SURREY										
FY2004	1	\$1,000	AFMC/WR-ALC	FCA/FFP	ATEL/BELTSVILLE, MD	Sep-04	Dec-04			

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 18	Page 9 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: PASSENGER CARRYING VEHICLES							
ITEM / 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	
FY2005	2	\$60,237	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Jun-05	Yes		
FY2006	3	\$58,385	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Jun-06	Yes		
FY2007	2	\$68,450	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Jun-07	Yes		
AMB, 44 PAX CONV US										
FY2004	4	\$109,212	AFMC/WR-ALC	MIPR/IDIQ	GSA/BLUE BIRD/FT VALLEY, GA	Apr-04	Sep-04			
FY2005	3	\$87,673	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-05	Sep-05	Yes		
FY2006	9	\$100,289	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-06	Sep-06	Yes		
FY2007	13	\$110,450	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-07	Sep-07	Yes		
AMB, MOD 4X4										
FY2004	20	\$83,042	AFMC/WR-ALC	MIPR/IDIQ	GSA/WHEELED COACH/WINTER PARK, FL	Apr-04	Aug-04			
FY2005	14	\$71,829	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-05	Aug-05	Yes		
FY2006	27	\$79,640	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-06	Aug-06	Yes		
FY2007	6	\$96,455	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Apr-07	Aug-07	Yes		

	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 19	Page 10 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PASSENGER CARRYING VEHICLES						
ITEM / 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 4X4 JAPAN										
FY2004	1	\$78,673	AFMC/WR-ALC	MIPR/FFP	PACAF (TOYOTA)/TOKYO, JA	Sep-04	Jan-05			
FY2006	2	\$76,513	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	May-06	Sep-06	Yes		
AMB, MOD 4X2 US										
FY2004	5	\$80,349	AFMC/WR-ALC	MIPR/IDIQ	GSA/WHEELED COACH/WINTER PARK, FL	Mar-04	Sep-04			
FY2005	2	\$66,791	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-05	Sep-05	Yes		
FY2006	5	\$78,750	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-06	Sep-06	Yes		
FY2007	4	\$90,750	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	Mar-07	Sep-07	Yes		
AMB, MOD 4X2 JAPAN										
FY2007	4	\$140,750	AFMC/WR-ALC	MIPR/FFP	PACAF (UNKNOWN)	Mar-07	Sep-07	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
			<b>P-1 ITEM NO</b> 2			<b>PAGE NO:</b> 20				Page 11 of 11

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDIUM TACTICAL VEHICLES					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> <small>(in Thousands)</small>	\$14,822	\$15,272	\$13,058	\$20,994	\$25,786	\$23,049	\$23,829	\$23,758	
<p><b>Description:</b></p> <p>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. These trucks are extensively used by the US Army and in order to maintain commonality, compatibility of parts, and maintenance support, it is crucial that the Air Force utilize these trucks to conduct joint operations with the Army. These tactical vehicles are critical to the Air Force's war fighting capability. Shortfalls of these vehicle types will degrade Operations Plan execution and result in mission support and sustainment degradation. These vehicles are crucial in the mission support and sustainment efforts for contingency operations.</p> <p>Our total inventory objective for Family Medium Tactical Vehicles is 3,474. Our current procurement requirement for shortages and replacements is 2,653. FY06 procures 82 vehicles.</p> <p>FMTV program received \$12M in the FY04 supplemental.</p>									
	<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 21		Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRK, CGO, MTV, M1078A1 2.5 T	A	24	\$3,145	42	\$5,418	40	\$5,626	80	\$11,489
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T	A	17	\$2,301	54	\$8,053	36	\$5,226	38	\$5,754
TRK, TRACTOR, M1088 5 T	A	1	\$161	1	\$163			3	\$530
TRK, WRECKER, M1089A1 5 T	A	7	\$2,399	5	\$1,638	6	\$2,207	6	\$2,253
TRK, CGO, MTV, M1083A1, W/WINCH 5T	A	54	\$6,816					7	\$968
<b>TOTALS:</b>		103	\$14,822	102	\$15,272	82	\$13,058	134	\$20,994

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 22		Page 1 of 1
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: MEDIUM TACTICAL VEHICLES							
ITEM / 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										
FY2004	24	\$131,041	AFMC/WR-ALC	MIPR/C/M-5 (Yr1)	ARMY/STEWART & STEVENSON/SEALY, TX	Mar-04	Dec-04			
FY2005	42	\$129,000	AFMC/WR-ALC	MIPR/C/M-5 (Yr2)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-05	Dec-06			
FY2006	40	\$140,641	AFMC/WR-ALC	MIPR/C/M-5 (Yr3)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-06	Dec-07	Yes		
FY2007	80	\$143,610	AFMC/WR-ALC	MIPR/C/M-5 (Yr4)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-07	Dec-08	Yes		
TRK, CGO, MTV, M1083A1, W/O WINCH 5 T										
FY2004	17	\$135,360	AFMC/WR-ALC	MIPR/C/M-5 (Yr1)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-04	Dec-04			
FY2005	54	\$149,121	AFMC/WR-ALC	MIPR/C/M-5 (Yr2)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-05	Dec-06			
FY2006	36	\$145,159	AFMC/WR-ALC	MIPR/C/M-5 (Yr3)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-06	Dec-07	Yes		
FY2007	38	\$151,410	AFMC/WR-ALC	MIPR/C/M-5 (Yr4)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-07	Dec-08	Yes		

	<b>P-1 ITEM NO</b> 8		<b>PAGE NO:</b> 23	Page 1 of 3
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# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDIUM TACTICAL VEHICLES						
ITEM / 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										
FY2004	1	\$161,242	AFMC/WR-ALC	MIPR/C/M-5 (Yr1)	ARMY/STEWART & STEVENSON/SEALY, TX	Mar-04	Dec-04			
FY2005	1	\$163,257	AFMC/WR-ALC	MIPR/C/M-5 (Yr2)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-05	Dec-06			
FY2007	3	\$176,708	AFMC/WR-ALC	MIPR/C/M-5 (Yr4)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-07	Dec-08	Yes		
TRK, WRECKER, M1089A1 5 T										
FY2004	7	\$342,666	AFMC/WR-ALC	MIPR/C/M-5 (Yr1)	ARMY/STEWART & STEVENSON/SEALY, TX	Mar-04	Dec-04			
FY2005	5	\$327,638	AFMC/WR-ALC	MIPR/C/M-5 (Yr2)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-05	Dec-06			
FY2006	6	\$367,770	AFMC/WR-ALC	MIPR/C/M-5 (Yr3)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-06	Dec-07	Yes		
FY2007	6	\$375,535	AFMC/WR-ALC	MIPR/C/M-5 (Yr4)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-07	Dec-08	Yes		
TRK, CGO, MTV, M1083A1, W/WINCH 5T										
FY2004	54	\$126,222	AFMC/WR-ALC	MIPR/C/M-5 (Yr1)	ARMY/STEWART & STEVENSON/SEALY, TX	May-04	Mar-05			
FY2007	7	\$138,329	AFMC/WR-ALC	MIPR/C/M-5 (Yr4)	ARMY/STEWART & STEVENSON/SEALY, TX	Feb-07	Dec-08	Yes		
<b>Remarks:</b>										
<b>P-1 ITEM NO</b> 8					<b>PAGE NO:</b> 24		Page 2 of 3			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDIUM TACTICAL VEHICLES						
ITEM / 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	
Cost information is in actual dollars.										
	<b>P-1 ITEM NO</b> 8			<b>PAGE NO:</b> 25					Page 3 of 3	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> HIGH MOBILITY VEHICLE (MYP)					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$4,055	\$7,526	\$3,257	\$4,072	\$6,512	\$8,601	\$8,683	\$8,820
<p><b>Description:</b></p> <p>This program includes the procurement of High Mobility Multi-Purpose Wheeled Vehicles (HMMWV). These vehicles have the capability to operate under tactical conditions in austere adverse terrain locations. They support security forces/force protection activities, civil engineering, including Rapid Engineer Deployable Heavy Operational Repair units, Engineering (RED HORSE) units, Combat Communication Flights, and Air Force Special Operations Forces airlift units. The M1097A2 model serves as the prime tactical vehicle for the US Army. Commonality and compatibility of parts and standardized maintenance and supply support make this vehicle the logical choice for fulfilling Air Force requirements in a joint force environment. These vehicles are used in locations worldwide and in high intensity hostile environments. They are used by Combat Communications Flights, Air Support Operations Squadrons and other tactical, direct mission support units throughout Pacific Air Forces, Air Combat Command, and United States Air Forces in Europe, as well as other commands in the Air Force. These tactical vehicles are critical to our war fighting capability. This vehicle plays a vital role for personnel during deployments. There is not a work-around or suitable substitute item available for this tactical vehicle. The types of items contained within this P-1 line are critical (deployed) assets used in direct support of Air Force units including Air National Guard and Reserve components engaged in contingency operations.</p> <p>Our total inventory objective for the High Mobility Vehicle is 1,968. Our current procurement requirement for shortages and replacements is 531. FY06 purchases 47 vehicles.</p>								
	<b>P-1 ITEM NO</b> 9		<b>PAGE NO:</b> 26				Page 1 of 1	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> HIGH MOBILITY VEHICLE (MYP)
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
M1097A2 HMMWV	A	60	\$4,055	106	\$7,526	47	\$3,257	58	\$4,072
<b>TOTALS:</b>		60	\$4,055	106	\$7,526	47	\$3,257	58	\$4,072

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 9		<b>PAGE NO:</b> 27	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HIGH MOBILITY VEHICLE (MYP)						
ITEM / 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	
M1097A2 HMMWV										
FY2004	60	\$67,583	AFMC/WR-ALC	MIPR/C/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-04	Oct-04			
FY2005	106	\$71,000	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-05	Nov-05			
FY2006	47	\$69,298	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-06	Nov-06	Yes		
FY2007	58	\$70,207	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-07	Nov-07	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
<b>P-1 ITEM NO</b> 9			<b>PAGE NO:</b> 28			Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CAP VEHICLES				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$786	\$799	\$821	\$849	\$864	\$883	\$905	\$919
<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> 11		<b>PAGE NO:</b> 29		Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> HMMWV, ARMORED					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$4,560	\$2,291	\$2,190	\$8,429	\$4,079	\$2,798	\$2,462	\$3,426
<p><b>Description:</b></p> <p>This program provides funding for armored High Mobility Multipurpose Wheeled Vehicles (HMMWV). These vehicles consist of the standard diesel powered HMMWV utility truck with armor plating to provide ballistic protection for armament components, crew, and ammunition.</p> <p>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 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. 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.</p> <p>Our total inventory objective for the Armored HMMWV is 886. Our current procurement requirement for shortages and replacements is 520. FY06 purchases 30 Armored HMMWVs.</p> <p>The Armored HMMWV received \$600K in the FY04 supplemental.</p>								
	<b>P-1 ITEM NO</b> 15		<b>PAGE NO:</b> 30			Page 1 of 1		

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> HMMWV, ARMORED
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HMMWV, ARMORED (M1025A2)	A	67	\$4,560	29	\$2,291	30	\$2,190	112	\$8,429
<b>TOTALS:</b>		67	\$4,560	29	\$2,291	30	\$2,190	112	\$8,429

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 15		<b>PAGE NO:</b> 31	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMMWV, ARMORED						
ITEM / 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, ARMORED (M1025A2)										
FY2004	67	\$68,060	AFMC/WR-ALC	MIPR/C/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Dec-03	Aug-04			
FY2005	29	\$79,000	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-05	Nov-06			
FY2006	30	\$73,000	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-06	Nov-07	Yes		
FY2007	112	\$75,259	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-07	Nov-08	Yes		
<p><b>Remarks:</b> Cost information is in actual dollars.</p>										
<b>P-1 ITEM NO</b> 15			<b>PAGE NO:</b> 32			Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> HMMWV, UP-ARMORED					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$25,314	\$6,926	\$11,058	\$11,330	\$4,383	\$7,342	\$7,524	\$8,331
<p><b>Description:</b></p> <p>This program provides funding for Up-Armored High Mobility Multipurpose Wheeled Vehicles (HMMWV). The Up-Armored HMMWV, unlike the Armored HMMWV, is used in high-risk threat areas prone to land mines. These vehicles consist of standard diesel powered HMMWV utility trucks with armor plating to provide ballistic protection for armament components, crew, and ammunition. The Up-Armored HMMWV provides protection from land mines and aerial bursts of munitions in addition to the protection offered by the standard Armored HMMWV.</p> <p>This vehicle meets Air Force Explosive Ordnance Disposal (EOD), Civil Engineering (CE), Air Base Damage Assessment Team, Base Recovery After Attack Team and Security Forces (SF) requirements as well as essential ongoing Force Protection/Anti-Terrorism (FP/AT) needs. EOD employs this vehicle as an unexploded ordnance team work platform; CE uses it to support damage assessment and as an Armored Personnel Carrier; and SF requires this vehicle for force protection, nuclear weapon security, and Air Base Defense operations. In overseas locations, the Up-Armored HMMWV is a must-have asset in meeting force protection needs. The diverse environments of operations within Southwest Asia require a vehicle with 4X4 capability, adequate protection from hostile fire, and increased survivability of personnel from land mines and ordnance explosion/fragmentation hazards.</p> <p>Our total inventory objective for the Up-Armored HMMWV is 1045. Our current procurement requirement for shortages and replacements is 272. FY06 purchases 62 Up-Armored HMWWVs.</p> <p>Up-Armored HMWWV received \$34M in the FY04 supplemental funding. \$15M of the \$34M is not reflected in the FY04 dollars above because the funding was provided as a 4-year appropriation.</p>								
	<b>P-1 ITEM NO</b> 17		<b>PAGE NO:</b> 33		Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> HMMWV, UP-ARMORED
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HMMWV, UPARMORED (M1116)	A	106	\$18,295	40	\$6,926	38	\$7,039	53	\$10,025
HMMWV, UPARMORED (M1145)	A	46	\$7,019			24	\$4,019	8	\$1,305
<b>TOTALS:</b>		152	\$25,314	40	\$6,926	62	\$11,058	61	\$11,330

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 17		<b>PAGE NO:</b> 34		Page 1 of 1
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT			<b>P-1 NOMENCLATURE:</b> HMMWV, UP-ARMORED							
ITEM / 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)										
FY2004	106	\$172,595	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Sep-04	Jun-05			
FY2005	40	\$173,150	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-05	May-06			
FY2006	38	\$185,239	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-06	May-07	Yes		
FY2007	53	\$189,150	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-07	May-08	Yes		
HMMWV, UPARMORED (M1145)(1)										
FY2004	46	\$152,585	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	May-04	Jun-05			
FY2006	24	\$167,455	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-06	May-07	Yes		
FY2007	8	\$163,100	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/AM GENERAL/SOUTH BEND, IN	Feb-07	May-08	Yes		
<p><b>Remarks:</b>                      Cost information is in actual dollars.</p> <p>(1) Basic contracts DAAE07-01-C-S019 and DAAE07- 01-C-S001 awarded 10 APR 00 with six option years.</p>										
<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 35			Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$6,227	\$16,095	\$21,414	\$23,050	\$23,405	\$24,684	\$26,134	\$25,610	
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. This P-1 line, beginning in FY06, combines P-19 Crash Rescue Truck funding with remaining funding from the Items less Than \$5M (Fire Fighting). As a result, this P-1 Line has been redesignated Fire Fighting/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 our bases with the capability to rapidly extinguishing 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. The total Air Force P-19 requirement is determined by the type of aircraft frequenting an aerial facility and the resulting gallons per minute of firefighting 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.</li> <li>4. The Water Tanker Truck (P-26) is a 4000-gallon re-supply truck used to support the ARFF vehicle and to fight wild land fires.</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 AFFF (Aqueous Film Forming Foam) class "A" foam tank. It is capable of applying 1250 gallons per minute to a fire. The P-24 is built on a more 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 large structural fire fighting pumper truck with a 75- or 105- foot aerial platform. It provides improved agent delivery</li> </ol>									
	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 36		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES			
<b>Description (continued):</b>  over older models as well as the elevated delivery capability that older pumper trucks lack.  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.  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.  9. These vehicles are built to meet National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA), Federal Aviation Administration (FAA) and Air Force safety regulations.  10. Our total inventory objective for this P-1 line is 1,552. Our current procurement requirement for shortages and replacement is 685. FY06 purchases 40 fire fighting trucks.					
	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 37		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRUCK CRASH P-19	A	9	\$6,227	23	\$16,095	20	\$14,300	18	\$13,111
TRUCK CRASH P-23	A					1	\$510	2	\$1,164
TRUCK WATER TANKER P-26	A					8	\$2,280	7	\$2,037
TRUCK PUMPER 4X4 P-24	A					1	\$400	4	\$1,634
TRUCK PUMPER 4X2 P-22	A					6	\$2,250	4	\$1,532
HAZARDOUS MATERIAL VEHICLE P-31	A					1	\$368	1	\$376
HEAVY RESCUE VEHICLE P-28	A					2	\$766	1	\$441
FIREFIGHTING QUINT TRUCK	A					1	\$540	5	\$2,757
<b>TOTALS:</b>		9	\$6,227	23	\$16,095	40	\$21,414	42	\$23,050

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 38		Page 1 of 1
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: FIRE FIGHTING/CRASH RESCUE VEHICLES						
ITEM / 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										
FY2004	9	\$691,888	AFMC/WR-ALC	MIPR/IDIQ	DSCP/OSHKOSH TRK CORP/OSHKOSH, WI	Sep-04	Sep-05			
FY2005	23	\$699,783	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Feb-05	Feb-06	Yes		
FY2006	20	\$715,010	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Feb-07	Yes		
FY2007	18	\$728,400	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Feb-08	Yes		
TRUCK CRASH P-23										
FY2006	1	\$510,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Feb-07	Yes		
FY2007	2	\$581,970	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Feb-08	Yes		
TRUCK WATER TANKER P-26										
FY2006	8	\$285,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Jan-07	Yes		
FY2007	7	\$290,985	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Jan-08	Yes		

	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 39	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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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 / 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 PUMPER 4X4 P-24									
FY2006	1	\$400,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Sep-06	Yes	
FY2007	4	\$408,400	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Sep-07	Yes	
TRUCK PUMPER 4X2 P-22									
FY2006	6	\$375,000	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Nov-06	Yes	
FY2007	4	\$382,875	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Nov-07	Yes	
HAZARDOUS MATERIAL VEHICLE P-31									
FY2006	1	\$367,739	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Nov-06	Yes	
FY2007	1	\$375,534	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Nov-07	Yes	

	<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 40	Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES						
ITEM / 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	
HEAVY RESCUE VEHICLE P-28										
FY2006	2	\$383,031	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-06	Nov-06	Yes		
FY2007	1	\$440,631	AFMC/WR-ALC	MIPR/IDIQ	DSCP (UNKNOWN)	Jan-07	Nov-07	Yes		
FIREFIGHTING QUINT TRUCK										
FY2006	1	\$540,000	AFMC/WR-ALC	MIPR/IDIQ	UNKNOWN	Jan-06	Nov-06	Yes		
FY2007	5	\$551,340	AFMC/WR-ALC	MIPR/IDIQ	UNKNOWN	Jan-07	Jan-07	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
			<b>P-1 ITEM NO</b> 22			<b>PAGE NO:</b> 41				Page 3 of 3

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HALVORSEN LOADER				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>	78	25	25	12				
<b>COST</b> (in Thousands)	\$38,263	\$16,934	\$16,311	\$8,207	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>Requested funds are used to procure the Halvorsen Loader (previously Next Generation Small Loader) and associated program/supply support. The Halvorsen will replace the oldest 25K loaders and remaining Wide-Body Elevator Loaders. It handles all configurations of air cargo, including 463L pallets, commercial pallets, Army Type V airdrop platforms, container delivery system loads, international standard organization containers and rolling stock. The Halvorsen accommodates three pallets, loads and offloads a maximum of 25,000 pounds up to a height of 18.5 feet (to accommodate 747 aircraft) and has a lowering capacity to 39 inches (to accommodate C-130 aircraft). It interfaces with current and planned military cargo aircraft, current civilian model aircraft utilized by commercial carriers, and the Civil Reserve Fleet. Unlike the Tunner (60K Aircraft Loader), the Halvorsen is C-130 transportable, further enhancing the Air Force's ability to support rapid deployment to austere operating locations.</p> <p>The Air Force needs to replace its fleet of aging, worn-out, limited-capability Materiel Handling Equipment (MHE). Many existing 25K loaders exceed their service life expectancy and are sustained by continual depot overhaul and intensive base-level maintenance. In addition, nearly 46 percent of the remaining legacy 25K loaders are over 37 years old and are prone to frame cracks, limiting the ability of an overhaul to reasonably extend the service life.</p> <p>The Halvorsen loader, in conjunction with the Tunner loader, is an integral part of the airlift system during peacetime logistics missions and assures minimum ground times for increased capability during wartime and contingency surges.</p> <p>Halvorsen received a Congressional add of \$17M through Appropriations Conference Report 108-622 dated 20 July 04, page 228.</p> <p>Programmed procurement of 25K loaders ends in FY07. FY06 purchases 25 loaders.</p>								
	<b>P-1 ITEM NO</b> 26		<b>PAGE NO:</b> 42		Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT					P-1 NOMENCLATURE: HALVORSEN LOADER									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
HALVORSEN	A	78	\$400,959	\$31,275	25	\$488,298	\$12,207	25	\$512,713	\$12,818	12	\$600,000	\$7,200	
PRODUCTION SUPPORT				\$6,688			\$4,727			\$3,493			\$1,007	
SUPPLY SUPPORT				\$300										
TOTALS:		78		\$38,263	25		\$16,934	25		\$16,311	12		\$8,207	
<p><b>Remarks:</b>                      Total Cost information is in thousands of dollars.</p> <p>Changes in unit costs occur as follows:                      FY05 includes loader enhancements (cab cooling, auto lubrication) and an economic price adjustment due to raw material increases                      FY06 includes an inflation adjustment                      FY07 includes inflation and reduced quantity adjustments</p>														
				<b>P-1 ITEM NO</b> 26					<b>PAGE NO:</b> 43					
												Page 1 of 1		

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HALVORSEN LOADER						
ITEM / 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	
HALVORSEN										
FY2004	78	\$400,959	AFMC/ASC	OPT/FFP	FMC/ORLANDO, FL	Oct-03	Jan-04			
FY2005(1)	25	\$488,298	AFMC/WR-ALC	OPT/FFP	FMC/ORLANDO, FL	Dec-04	Jan-05			
FY2006	25	\$512,713	AFMC/WR-ALC	SS/FFP W/OPT	FMC/ORLANDO, FL	Nov-05	Jan-06	Yes		
FY2007	12	\$600,000	AFMC/WR-ALC	OPT/FFP	FMC/ORLANDO, FL	Nov-06	Jan-07	Yes		
<p><b>Remarks:</b> Cost information is in actual dollars.</p> <p>(1) Contract awarded for 25 ea 16 Dec 04.</p>										
<b>P-1 ITEM NO</b> 26			<b>PAGE NO:</b> 44			Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$19,306	\$22,501	\$22,026	\$32,377	\$25,136	\$22,941	\$25,136	\$25,329	
<p><b>Description:</b></p> <p>This program includes the procurement of a vehicle group consisting 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. Snow removal vehicles provide critical mission support to airfield operations because fighter aircraft cannot land or take off with ice on the runway. Multi-purpose vacuum sweepers maintain airfields, roads, and grounds. Vacuum sweepers provide equally important support at all air bases due to the high cost of FOD and the potential for loss in FOD-related engine accidents. These assets are critical to the Air Force mission. They are the primary players in keeping runways safe and usable year round, especially in winter when snow and ice buildup can close an airfield. 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.</p> <p>Our total inventory objective for Runway Snow Removal and Cleaning Equipment is 1,771. Our current procurement requirement is 1053. FY06 procures 90 Runway Snow Removal and Cleaning Equipment vehicles.</p>									
	<b>P-1 ITEM NO</b> 31		<b>PAGE NO:</b> 45		Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CLEANER, VAC MULTIPURPOSE		22	\$2,307	20	\$2,281	10	\$1,125	10	\$1,149
SNOW REMOVAL UNIT 3K TON PER HOUR	A	6	\$1,854	8	\$2,351	19	\$6,348	20	\$6,823
RAPID RUNWAY REPAIR DIRT SWEEPER	A			11	\$617	10	\$566	21	\$1,261
DUMP W/SNOW PLOW	A	3	\$279	2	\$277				
54K PLOW	A			1	\$218	5	\$1,247	4	\$1,019
DUMP W/SNOW PLOW	A	3	\$452	8	\$831	19	\$3,072	20	\$3,302
45K REVERSIBLE PLOW	A	24	\$5,491	24	\$5,876	20	\$7,272	30	\$11,138
SNOW BROOM AND BLOWER	A	28	\$8,924	26	\$10,050	7	\$2,394	22	\$7,684
<b>TOTALS:</b>		86	\$19,306	100	\$22,501	90	\$22,026	127	\$32,377
<b>Remarks:</b> Cost information is in thousands of dollars.									
		<b>P-1 ITEM NO</b> 31				<b>PAGE NO:</b> 46		Page 1 of 1	

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT						
ITEM / 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										
FY2004	22	\$104,864	AFMC/WR-ALC	MIPR/IDIQ	DLA/TYMCO INC/WACO, TX	Mar-04	Jul-04			
FY2005	20	\$114,044	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Jul-05	Yes		
FY2006	10	\$112,546	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Jul-06	Yes		
FY2007	10	\$114,923	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Jul-07	Yes		
SNOW REMOVAL UNIT 3K TON PER HOUR										
FY2004	6	\$309,000	AFMC/WR-ALC	MIPR/IDIQ	DLA/OSKOSH/OSKOSH, WI	May-04	Dec-04			
FY2005	8	\$293,917	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Sep-05	Yes		
FY2006	19	\$334,120	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Sep-06	Yes		
FY2007	20	\$341,174	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Sep-07	Yes		
RAPID RUNWAY REPAIR DIRT SWEEPER										
FY2005	11	\$56,112	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Jul-05	Yes		
FY2006	10	\$56,580	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Jul-06	Yes		
		<b>P-1 ITEM NO</b> 31			<b>PAGE NO:</b> 47			Page 1 of 3		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT						
ITEM / 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	21	\$60,025	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Jul-07	Yes		
DUMP W/SNOW PLOW										
FY2004	3	\$92,879	AFMC/WR-ALC	MIPR/IDIQ	GSA/NAV-INTERNATIONAL/ CHICAGO, IL	May-04	Nov-04			
FY2005	2	\$138,464	AFMC/WR-ALC	MIPR/IDIQ	GSA (UNKNOWN)	Mar-05	Sep-05	Yes		
54K PLOW										
FY2005	1	\$217,590	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Sep-05	Yes		
FY2006	5	\$249,462	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Sep-06	Yes		
FY2007	4	\$254,855	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Sep-07	Yes		
DUMP W/SNOW PLOW										
FY2004	3	\$150,659	AFMC/WR-ALC	MIPR/IDIQ	GSA/NAV-INTERNATIONAL/ CHICAGO, IL	May-04	Nov-04			
FY2005	8	\$103,894	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Sep-05	Yes		
FY2006	19	\$161,696	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Sep-06	Yes		
FY2007	20	\$165,110	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Sep-07	Yes		

	<b>P-1 ITEM NO</b> 31		<b>PAGE NO:</b> 48	Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT						
ITEM / 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	
45K REVERSIBLE PLOW										
FY2004	24	\$228,786	AFMC/WR-ALC	MIPR/IDIQ	DLA/OSKOSH/OSKOSH, WI	May-04	Mar-05			
FY2005	24	\$244,842	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Jan-06	Yes		
FY2006	20	\$363,605	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Jan-07	Yes		
FY2007	30	\$371,282	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Jan-08	Yes		
SNOW BROOM AND BLOWER										
FY2004	28	\$318,704	AFMC/WR-ALC	MIPR/IDIQ	DLA/OSKOSH/OSKOSH, WI	Apr-04	Dec-04			
FY2005	26	\$386,526	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-05	Feb-06	Yes		
FY2006	7	\$342,052	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-06	Feb-07	Yes		
FY2007	22	\$349,274	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	Mar-07	Feb-08	Yes		
<b>Remarks:</b> Cost information is in actual dollars.										
<b>P-1 ITEM NO</b> 31			<b>PAGE NO:</b> 49			Page 3 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (VEHICLES)					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$17,298	\$33,881	\$10,546	\$22,962	\$26,661	\$33,346	\$35,936	\$31,759	
<p><b>Description:</b></p> <p>Beginning in FY06, the remaining funding is for items with a unit cost of more than \$250K. Items with a unit cost less than \$250K were moved to Operations and Maintenance as prescribed by dollar threshold.</p> <p>This P-1 line combines vehicles greater than \$250K from Items Less Than \$5M (Cargo/Utility); Items Less Than \$5M (Special Purpose Vehicles); Items Less Than \$5M (Materials Handling); Scoop Loaders; Dump Trucks; and Items Less Than \$5M (Base Maintenance Support). This P-1 Line has been redesignated Items Less Than \$5M (Vehicles) due to the consolidation of the vehicle types listed above.</p> <p>This program includes the procurement of various vehicle groups with a cost of less than \$5,000,000. These vehicle groups consist of heavy wreckers, armored personnel carriers, maintenance/test vans, large capacity fork lifts, 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.</p>									
	<b>P-1 ITEM NO</b> 34		<b>PAGE NO:</b> 50		Page 1 of 1				

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)				DATE: FEBRUARY 2005	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION (VEHICLES)			
PROCUREMENT ITEMS	NSN	FY2006		FY2007	
		QTY.	COST	QTY.	COST
TRUCK, WRECKER 5T	2320013544528			1	\$336
TRUCK TRACTOR, XM1070	2320013189902			1	\$360
TRUCK, LIQUID NITROGEN, C5A/B	2320000999346	2	\$520	6	\$1,591
STAKE TRAILER LIQUID OXYGEN/LIQUID NITROGEN	2330006843650			4	\$1,006
M-113 ARMORED PERSONNEL CARRIER	2350009686321	1	\$325		
AVIONICS TEST VAN	2320004139738	5	\$1,762	3	\$1,079
HI REACH 100 FT	2320004869951YW	2	\$516	4	\$1,054
TRUCK TELEPHONE MAINT S-90	2320004558464	5	\$1,226	8	\$2,004
TRUCK VAN CUSTOMIZED	2320010031959			3	\$769
50K ALL TERRAIN CONTAINER HANDLER	3930013073658			2	\$1,080
TRUCK FORKLIFT 44K CONTAINER HANDLER	3930014662860	2	\$695		
T9 DOZER	2410008165091	2	\$676	8	\$2,760

	<b>P-1 ITEM NO</b> 34		<b>PAGE NO:</b> 51	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)				DATE: FEBRUARY 2005	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION (VEHICLES)			
PROCUREMENT ITEMS	NSN	FY2006		FY2007	
		QTY.	COST	QTY.	COST
LOADER COMPACTOR	3805001920729	1	\$288		
TRUCK DUMP 22 TON	3805009310616	4	\$1,187	6	\$1,785
CRANE, 35T CRASH RECOVERY	3810010798358	2	\$728	4	\$1,486
15T CRANE	3810003294154			6	\$1,589
17T CRANE	3810005544103	1	\$396	1	\$404
45T CRANE	3810002729031	1	\$426	4	\$1,738
50T CRANE ROUGH TERRAIN	3810010679974	1	\$456		
ROCK CRUSH/SCREEN PLANT 25 TONS/HOUR	3820012180595			1	\$418
ROCK CRUSH-SCREEN 150 TONS/HOUR	3820000601841	1	\$536		
CENTRAL CONCRETE MIX PLANT	3895010632722			1	\$346
SCRAPER MOTORIZED 18 CUBIC YARD	3805002349778			1	\$346
CRUSHER HYDRAULIC TRUCK 65 TON	3810010388315	1	\$518	1	\$529

	<b>P-1 ITEM NO</b> 34		<b>PAGE NO:</b> 52		Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION (VEHICLES)
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PROCUREMENT ITEMS	NSN	FY2006		FY2007	
		QTY.	COST	QTY.	COST
WELL DRILLING SYSTEM	3820002869196			1	\$1,421
SHEEPS FOOT COMPACTOR	3805013597626	1	\$292	2	\$597
TRACTOR, WHEELED W/DOZER	2420005403881			1	\$265
TOTALS:			\$10,546		\$22,962

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

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

ELECTRONICS & TELECOMMUNICATION EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
36	Space Systems (COMSEC) .....	1
37	Modifications (COMSEC) .....	12
38	Intelligence Training Equipment .....	14
39	Intelligence Communications Equipment .....	17
40	Traffic Control/Landing .....	22
41	National Airspace System .....	30
42	Theater Air Control System Improvement .....	36
43	Weather Observation Forecast .....	46
44	Strategic Command and Control .....	55
45	Cheyenne Mountain Complex .....	63
48	General Information Technologies .....	71
49	Air Force Global Command & Control System .....	89
50	Mobility Command and Control .....	93
51	Air Force Physical Security System .....	99
52	Combat Training Ranges .....	110
53	Minimum Essential Emergency Communications Network ..	129
54	C3 Countermeasures .....	134
55	Global Combat Support System – AF Family of Systems ....	140
56	Theater Battle Management C2 System .....	149
57	Air Operations Center (AOC) .....	154
58	Base Information Infrastructure .....	161
59	USCENTCOM .....	176



DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

ELECTRONICS & TELECOMMUNICATION EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
61	Space Based IR Sensor Program Space .....	182
62	NAVSTAR GPS Space .....	187
63	Nudet Detection System Space .....	191
64	Air Force Satellite Control Network Space .....	196
65	Spacelift Range System Space .....	201
66	MILSATCOM Space .....	209
67	Space Mods Space .....	219
68	Tactical C-E Equipment .....	228
69	Combat Survivor Evader Locator .....	243
70	Radio Equipment .....	246
71	TV Equipment (AFRTV) .....	252
72	CCTV/Audiovisual Equipment .....	254
73	Base Communications Infrastructure .....	257
74	Items Less Than \$5 Million .....	271
75	Comm Elect Mods .....	273

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2005
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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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	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$29,302	\$34,264	\$58,176	\$116,740	\$153,987	\$193,842	\$240,439	\$301,599

**Description:**

This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices (the secure transport of data across networks to prevent unauthorized access), and related equipment. The 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 Air Force (AF) and Department of Defense (DoD) missions. Supported systems fall within AF Information Systems Security (INFOSEC) and Information Assurance arenas. Development funding for this program is in Program Element 0303140F.

**1. COMSEC EQUIPMENT:**

a. **SPACE COMMUNICATIONS SECURITY PRODUCTS (SPECIAL PROJECTS):** Space COMSEC is on the front line of AF Space and Information superiority goals and provides communications security products to all DoD satellite systems. It enables secure command and control 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. Space COMSEC provides the warfighter with global secure anti-jam communications capabilities. It provides secure transmission of information collected by satellite sensors, which provides the warfighter an integrated view of the battle space. Space COMSEC is critical to enabling Transformational Communications secure integration into the Global Information Grid. Space COMSEC Products are grouped in three primary product families with associated logistics support:

(1) **High Speed:** FY06 funding provides for the High Speed product family which provides secure transmission for large volumes of satellite sensor data to the ground station for processing. Specifically, High Speed products are eight-channel downlink encryption products used in ground station

	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 1	Page 1 of 7
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> processing facilities. Sensor satellites collect large volumes of data which must be transmitted to ground stations for processing. The data provides military leaders an integrated and interactive view of the entire battle space. The data collected and transmitted must remain protected to protect the interests of the nation. Current High Speed Space COMSEC products achieve data rates up to 3.2 Gigabytes per second (Gbps). Future Transformational Communication system requirements will continue to push the limits of High Speed satellite link products with estimates in the 10 Gbps to 40 Gbps range. High Speed products average \$2 million per unit due to cutting edge technology, multi-channel capacity, and low rate production.  (2) High Speed Logistics: FY06 funding provides for High Speed Logistics life cycle support for the High Speed Product family.  (3) Command/Telemetry (CMD/TLM): FY06 funding provides for CMD/TLM products providing secure transmission of satellite command and control uplinks and secure transmission of satellite telemetry and tracking data. All DoD satellite systems require secure command and control of the satellites, which make up the system and enable their missions. Satellite telemetry is securely transmitted from the satellite to 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 \$80,000 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. This program also procures logistics support for life cycle management of the CMD/TLM Product family.  (4) Command/Telemetry Logistics : No FY06 funding is requested.  (5) Transmission Security: No FY06 funding is requested.  b. AIR AND GROUND COMMUNICATIONS PROGRAM: The Air and Ground Communications Program incorporates a wide range of secure encryption products supporting AF, Inter-Service, and various DoD agency customers. FY06 funding provides for secure encryption products including:  (1) Key Generators: These products allow the transmission signal of critical emergency action message traffic to appear like normal					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 2		Page 2 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> 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 (VLF)/Low Frequency communication links. They provide cryptographic security for all classifications of digital teletypewriter and data traffic and may feature synchronous and asynchronous ciphertext traffic.  (2) Secure Telephones: Secure telephones provide secure and nonsecure voice and data in digital or analog mode.  (3) Software System Upgrades: These upgrades incorporate the latest operating software on COMSEC equipment.  (4) COMSEC Acquisition Reform (CAR): CAR is a program set up to support AF Major Commands that have emergency requirements for equipment. The CAR program provides the Cryptologic Systems Group (CPSG) a wide range of products required for the protection of classified information. Products include DoD Type I COMSEC equipment and commercial cryptography products. Readily available equipment at CPSG enables a quick turn around for customers requiring Commercial COMSEC Endorsement Program (CCEP) products.  (5) Support Equipment: The Support Equipment is used in support of the Information Technology Assistance Center (ITAC). The ITAC provides technical expertise on information assurance products and solutions for USAF 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 AF INFOSEC engineers and equipment specialists.  (6) Secure Communications Voice/Data: Provides 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, wireline systems and/or satellite systems.  (7) Network Encryption Systems: Equipment that provides 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.					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 3		Page 3 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b>  (8) Embedded Encryption Devices: 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.  (9) Telemetry Encryption/Decryption Devices: Devices used to secure weapon systems, aircraft telemetry and data link encryption applications at test ranges.  c. CRYPTOGRAPHIC MODERNIZATION: The fundamental requirement of the Cryptographic Modernization Program is to develop a modern cryptographic capability that supports security, interoperability, flexibility and programming ability and Key Management Infrastructure (KMI) compatibility. The requirements dictated by cryptographic modernization apply to all Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) information technology (IT) systems employing Type 1 cryptography used to encrypt classified and sensitive information. This supports U.S. Government forces operating unilaterally or in combination with multinational and interagency partners, with the security needed to protect the flow and exchange of operational decision-making information. FY06 funds will support Space Crypto, Nuclear Command and Control (NC2), Minimum Emergency Essential Communications Network (MEECN), (KG-3X)/Fixed Submarine Broadcast System (FSBS) Identification Friend/Foe, Nuclear Command and Control (NC2): Minuteman III, Remote Re-Key (CI-13), and KEESEE Key Generation (KOK-13).  (1) Nuclear Command and Control (NC2): Minimum Emergency Essential Communications Network (MEECN) (KG-3X)/Fixed Submarine Broadcast System (FSBS). Modernization will be required for the following cryptographic devices that operate in the clock start mode (complete synchronization of system clocks): KG-33, KG-34, KGV-61, KGV-61A, KOV-17, and KOV-17-1. 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 will be employed in various airborne and ground equipment for processing of Emergency Action Messages (EAMs), as well as some tactical applications (such as non ballistic missile, nuclear powered submarines). The KG-3X modernization is a form, fit and function (with added National Security Agency cryptographic modernization functionality), box for box replacement for existing cryptographic equipment.					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 4		Page 4 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> The concept of operations and support is expected to remain unchanged.  (2) Nuclear Command and Control (NC2) MINUTEMAN III: No FY06 funding is requested.  (3) Identification Friend/Foe: Modernization will be required to replace the cryptographic capabilities provided by the following current devices: KIT-1C, KIR-1C, KIV-2, KIV-2A, KIV-3 and KIV-6. Quantities required are 4545 Single Function Appliquet, 806 Combined Interrogator/Transponder Appliques, and 167 Stand Alone Crypto. These devices are integrated into all airborne platforms and ground radar applications.  (4) Space Crypto: Modernization of Space COMSEC products supporting satellite mission ground stations, satellite command and control networks and all future satellite programs. Modernization began in the early 90's with the development of the CARDHOLDER and PEGASUS algorithms; however, products must be developed to integrate the new algorithms into future satellite systems. The Space Crypto program will develop capabilities that transform legacy Space COMSEC products into an infrastructure that will support DoD network centric operations. Network centric operations is defined as an information superiority-enabled concept of operations that generates increased combat power by networking sensors, decision makers, and shooters to achieve shared awareness, increased speed of command, higher tempo of operations, greater lethality, increased survivability and a degree of self-synchronization.  (5) KEESEE: No FY06 funding is requested.  d. AIR FORCE ELECTRONIC KEY MANAGEMENT SYSTEM - KEY MANAGEMENT INFRASTRUCTURE (AFEKMS-KMI): AFEKMS-KMI is an Acquisition Category (ACAT) III and sustainment program providing secure, flexible, and timely upgrades to cryptologic key generation, distribution and management systems.  (1) Tech Updates: No FY06 funding is requested.					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 5		Page 5 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> <ul style="list-style-type: none"><li>(2) Hardware/Software Upgrade: No FY06 funding is requested.</li><li>(3) Tier 2 LAN: No FY06 funding is requested.</li><li>(4) KOV-21 Cards: No FY06 funding is requested.</li><li>(5) Simple Key Loader (SKL) with KOV-21 Cards: FY06 funding will provide Simple Key Loaders which will replace the obsolete AN/CYZ-10 (Data Transfer Device), KYK-13, KOI-18 and KYX-15/15A. The SKLs will ultimately replace 40,000 AF units, but phase-in will be incremental as operations transition from paper tape key and dial-up communications.</li><li>(6) Simple Key Loader (SKL) without KOV-21 Cards: No FY06 funding is requested.</li><li>(7) Program Management Administration (PMA): FY06 funding provides for PMA supporting device production.</li><li>(8) Protect Channel: FY06 funding provides High Assurance Internet Protocol Encryption (HAIPE) or other approved network protection encryption devices.</li><li>(9) Client/Cryptographic Workstations: FY06 funding provides for PC based Local Management Device workstations, Data Management Device Clients, or KMI clients. Cryptographic capability is provided by the KOK-22A Key processor or Advanced Key Processor.</li><li>(10) LMD Computers: No FY06 funding is requested.</li></ul> <p>e. COMPUTER NETWORK SUPPORT: Computer network support provides Defensive Counter Information capability to protect AF computer systems and their information against deliberate or unintentional unauthorized intrusion, corruption and/or destruction. This program contains AF</p>					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 6		Page 6 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b> <p>Information Warfare Center programs and initiatives to protect AF computers, whether they are stand-alone, networked, telephone switches or embedded in weapon systems, and provide Information Warfare threat prediction for AF systems.</p> <p>(1) Computer Security Assistance Program (CSAP) Countermeasures: The Countermeasures Engineering Team (CMET) provides technical support for CSAP. The team designs, develops, tests and deploys information protection tools, products and services as countermeasures for use by the CSAP Assessment Teams, as well as AF, DoD and authorized national agencies. Data collected by the Assessment Teams directly influences development of countermeasure tools and drives the near real-time implementation of countermeasures in the field. FY06 funding procures hardware/software necessary for vulnerability analysis, vulnerability identification, countermeasure development and testing in an environment simulating the real-world operational environment. To keep pace with technology, new versions of these systems are continuously required. These systems provide daily support to the Air Force Network Operations and Security Center, Air Force Communications Agency, Defense Information Systems Agency, Air Force Office of Special Investigations and other organizations, and are integral to the successful performance of the CMET mission. Annual system revisions are required to remain current with technology. Without the CSAP system, the security of AF networks may be compromised due to inadequate facilities to develop and test new intrusion detection signatures and investigate new technologies and architectures being integrated into AF networks.</p>					
	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 7		Page 7 of 7

UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMSEC EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMSEC EQUIPMENT (1-2)									
SPACE COMSEC			{\$9,798,000}		{\$19,287,000}		{\$12,342,000}		{\$15,878,000}
HIGH SPEED	A				\$6,000,000		\$6,000,000		\$4,000,000
HIGH SPEED LOGISTICS	A		\$1,260,001		\$4,000,000		\$2,081,001		\$3,793,000
CMD/TLM	A		\$8,162,999		\$8,113,609		\$4,260,999		\$3,918,000
CMD/TLM LOGISTICS	A				\$1,173,391				\$567,000
TRANSEC	A		\$375,000						\$3,600,000
AIR & GROUND COMSEC			{\$6,569,000}		{\$9,937,000}		{\$20,382,000}		{\$11,230,000}
KEY GENERATORS	A				\$3,502,067		\$350,002		\$350,000
SECURE TELEPHONES	A		\$229,860		\$1,000,001		\$1,000,001		\$1,000,001
SOFTWARE SYSTEM UPGRADE	A				\$200,000		\$200,000		\$200,000
CAR	A		\$227,769		\$460,000		\$957,001		\$940,000
	<b>P-1 ITEM NO</b> 36				<b>PAGE NO:</b> 8				Page 1 of 4

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SUPPORT EQUIPMENT	A		\$50,000		\$115,000		\$130,000		\$150,000
SECURE COMMUNICATIONS VOICE/DATA	A		\$50,000		\$300,000		\$440,000		\$480,000
NETWORK ENCRYPTION SYSTEMS	A		\$5,782,000		\$2,556,930		\$17,015,000		\$7,805,001
EMBEDDED ENCRYPTION DEVICES	A		\$25,000		\$250,000		\$240,000		\$255,000
TELEMETRY ENCRYPTION/DECRYPTION DEVICES	A		\$204,371		\$1,553,002		\$49,996		\$49,998
CRYPTOGRAPHIC MODERNIZATION								{\$4,487,000}	{\$80,109,000}
NC2: MEECN (KG-3X)	A						\$1,000,000		\$13,040,575
NC2: MINUTEMAN III (KS-60)	A								\$35,345,016
ID FRIEND/FOE (IFF)	A						\$3,344,000		\$4,550,410
SPACE CRYPTO	A						\$143,000		\$26,508,999
KEESEE	A								\$664,000

	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 9		Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFEKMS-KMI			{\$11,002,000}		{\$3,062,000}		{\$19,341,000}		{\$7,677,000}
TECH UPDATES	A				\$329,197				
HW/SW UPGRADE	A		\$377,345						
TIER 2 LAN	A		\$23,434						
KOV-21 CARDS	A		\$3,613,318						
SIMPLE KEY LOADER (SKL) W/KOV-21 CARDS	A				\$2,723,803		\$11,581,803		\$7,667,972
SIMPLE KEY LOADER (SKL) W/O KOV-21 CARDS	A		\$6,487,053						
PMA	A				\$9,000		\$9,197		\$9,028
PROTECT CHANNEL	A						\$2,000,000		
CLIENT/CRYPTOGRAPHIC WORKSTATIONS	A						\$5,750,000		
LMD COMPUTERS	A		\$500,850						
COMPUTER NETWORK SUPPORT	A		{\$1,933,000}		{\$1,978,000}		{\$1,624,000}		{\$1,846,000}

	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 10		Page 3 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CSAP COUNTERMEASURES	A		\$1,933,000		\$1,978,000		\$1,624,000		\$1,846,000
<b>TOTALS:</b>			\$29,302,000		\$34,264,000		\$58,176,000		\$116,740,000

**Remarks:**

Cost information is in actual dollars.

- (1) Multiple equipment types and unit costs within TRANSEC family (SPACE COMSEC).
- (2) Multiple equipment types and unit costs within various families of AIR & GROUND SECURITY PRODUCTS.

	<b>P-1 ITEM NO</b> 36		<b>PAGE NO:</b> 11	Page 4 of 4
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS (COMSEC)					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$944	\$460	\$2,399	\$692	\$1,507	\$1,544	\$1,583	\$1,609	
<p><b>Description:</b></p> <p>The Communications Security Modification program ensures the integration, installation and sustainment of cryptographic equipment consistent with the Air Force Cryptographic Modernization Road map. This program is a critical component supporting robust global communications. 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 Communications Security (COMSEC) equipment. These modification efforts ensure legacy equipment can meet current COMSEC operational-environment requirements. The Air Force Electronic Systems Center's Cryptologic Systems Group, located at Lackland AFB, TX, programs and 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 FY06 funding requested.</li> <li>2. SPACE COMSEC: Provides for the tracking, controlling and flying of satellites or Command/Telemetry (CMD/TLM). The increased funding in FY06 procures modifications to existing COMSEC fill devices critical to satellite command and control.</li> </ol>									
	<b>P-1 ITEM NO</b> 37		<b>PAGE NO:</b> 12		Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MODIFICATIONS (COMSEC)			(\$944)		(\$460)		(\$2,399)		(\$692)
NETWORK ENCRYPTION SYSTEMS	A		\$444						\$200
SPACE COMSEC	A		\$500		\$460		\$2,399		\$492
TOTALS:			\$944		\$460		\$2,399		\$692

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 37		<b>PAGE NO:</b> 13	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE TRAINING EQUIPMENT					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$2,913	\$2,891	\$4,744	\$5,233	\$5,354	\$5,487	\$5,624	\$5,715	
<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, weaponering, 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. FY06 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. FY06 funds also procure replacement hardware for modernizing Interactive Courseware development labs, workstations supporting senario 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>									
	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 14		Page 1 of 1				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GITA UPGRADE	A		\$2,913		\$2,891		\$4,744		\$5,233
<b>TOTALS:</b>			\$2,913		\$2,891		\$4,744		\$5,233

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 15	Page 1 of 1
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INTELLIGENCE TRAINING EQUIPMENT						
ITEM / 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(1)										
FY2004			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/WARNER ROBINS, GA	Mar-04	Apr-04			
FY2005			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/WARNER ROBINS, GA	Mar-05	Apr-05	Yes		
FY2006			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/WARNER ROBINS, GA	Mar-06	Apr-06	No	Feb-06	
FY2007			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS/WARNER ROBINS, GA	Mar-07	Apr-07	No	Feb-07	
<b>Remarks:</b>  (1) Jul 03 basic contract award with 4 option years.										
			<b>P-1 ITEM NO</b> 38			<b>PAGE NO:</b> 16	Page 1 of 1			

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$18,544	\$1,688	\$1,523	\$1,575	\$6,752	\$6,911	\$7,765	\$7,892
<p><b>Description:</b></p> <p>The Intelligence Communications Equipment program procures various communications equipment required to disseminate intelligence information to the warfighter across the spectrum of Air Force (AF) intelligence, surveillance, and reconnaissance (ISR) mission areas.</p> <ol style="list-style-type: none"> <li>1. AIR FORCE TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (TENCAP): No FY06 funding is requested.</li> <li>2. SPACE WARFARE CENTER (SWC): The SWC, located at Shriever AFB, CO, develops, evaluates, and tests space application and utility concepts, new technologies, and tactics that enable combat AF warfighters to realize the full potential of existing and planned assets to provide space capabilities to Effects Based Operations. FY06 funding supports equipment upgrades, phase out of old equipment, and import of new technology for Distributed Mission Operations-Space, primary Department of Defense (DoD) Air &amp; Space Fusion Center systems, and computer server capability. These systems support Air Force Space Command (AFSPC) Aerospace Expeditionary Force training of deploying space augmentation members to forward Air and Space Operations Centers. Development funding for SWC is in Program Element 0305147F.</li> <li>3. AIR NATIONAL GUARD (ANG) TACTICAL CRYPTOLOGIC SUPPORT: No FY06 funding requested.</li> <li>4. EAGLE VISION: No FY06 funding is requested.</li> <li>5. AIR FORCE SPACE COMMAND SPACE ANALYSIS: AFSPC Space Analysis advances AF, joint, and combined space warfare through innovation, testing, integration, tactics development, education, and training. FY06 funding procures programs supporting space analysis tool capabilities</li> </ol>								
	<b>P-1 ITEM NO</b> 39		<b>PAGE NO:</b> 17			Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT			
<b>Description (continued):</b> and development of AF Space Analysis Virtual Analysis Systems used for modeling and simulation support to all space mission areas; such as, space research/analysis, launch collision avoidance science and technology projects, and space capabilities fielded to warfighters.					
	<b>P-1 ITEM NO</b> 39		<b>PAGE NO:</b> 18		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AF TENCAP	A		\$194		\$195				
SPACE WARFARE CTR (SWC)	A		\$1,442		\$970		\$995		\$1,036
ANG TACTICAL CRYPTOLOGIC SPT	A		\$11,954						
EAGLE VISION	A		\$4,954						
AFSPC SPACE ANALYSIS	A				\$523		\$528		\$539
TOTALS:			\$18,544		\$1,688		\$1,523		\$1,575

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

	<b>P-1 ITEM NO</b> 39		<b>PAGE NO:</b> 19	Page 1 of 1
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INTELLIGENCE COMMUNICATIONS EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
AF TENCAP(1)										
FY2004			HQ AFSPC	DO/FP	INFORMATION TECH & APPLICATIONS CORP/COLORADO SPRINGS, CO	Apr-04	Sep-04			
FY2005			HQ AFSPC	DO/FP	INFORMATION TECH & APPLICATIONS CORP/COLORADO SPRINGS, CO	Apr-05	Sep-05	Yes		
SPACE WARFARE CTR (SWC)(1)										
FY2004			HQ AFSPC	DO/FP	BTG/COLORADO SPRINGS, CO	Jan-04	Apr-04			
FY2005			HQ AFSPC	DO/FP	BTG/COLORADO SPRINGS, CO	Jan-05	Apr-05			
FY2006			HQ AFSPC	DO/FP	BTG/COLORADO SPRINGS, CO	Jan-06	Apr-06	Yes		
FY2007			HQ AFSPC	DO/FP	BTG/COLORADO SPRINGS, CO	Jan-07	Apr-07	Yes		
ANG TACTICAL CRYPTOLOGIC SPT(1)										
FY2004			AFMC/WR-ALC	DO/FFP	RATHEON SYS/GARRLAND, TX	Mar-04	Aug-04			

	<b>P-1 ITEM NO</b> 39		<b>PAGE NO:</b> 20	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT						
ITEM / 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	
EAGLE VISION(1)										
FY2004			AFMC/ESC	MIPR/FFP	MULTIPLE (2)	Jul-04	Aug-04			
AFSPC SPACE ANALYSIS(1)										
FY2005			HQ AFSPC	DO/FP	ASI/COLORADO SPRINGS, CO	Jan-05	May-05			
FY2006			HQ AFSPC	DO/FP	UNKNOWN	Jan-06	May-06	No	Sep-05	
FY2007			HQ AFSPC	DO/FP	UNKNOWN	Jan-07	May-07	No	Sep-06	
<p><b>Remarks:</b></p> <p>(1) Quantity/unit costs vary because of different types/configurations of equipment being procured.</p> <p>(2) Military Interdepartmental Purchase Requests go to Electronics Systems Command (ESC), Hanscom Air Force Base, MA; ESC, Eglin AFB, FL; and GSA/ITSolutions, Philadelphia, PA.</p>										
			<b>P-1 ITEM NO</b> 39			<b>PAGE NO:</b> 21	Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRAFFIC CONTROL/LANDING					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$32,029	\$4,431	\$16,795	\$6,238	\$987	\$991	\$1,016	\$1,030	
<p><b>Description:</b></p> <p>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. The 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, Global Strike, Homeland Security and Global Response Concept of Operations. ATCALs provide a capability focused range of enroute, terminal air traffic control, and instrument procedures for air and space management in support of Joint Vision 2010 full-spectrum dominance. The developmetn funding for ATCALs is in Program Element 0305114F, Air Traffic Control and Landing Systems.</p> <p><b>AIR TRAFFIC CONTROL OPERATIONS (ATC OPS):</b> 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.</p> <p style="margin-left: 20px;">a. <b>INSTRUMENT LANDING SYSTEMS:</b> No FY06 funding requested.</p> <p style="margin-left: 20px;">b. <b>EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM:</b> The R-2508 complex consists of several Military Operations Areas and Air Traffic Control-Assigned Airspaces. The automation system is comprised of equipment tailored to support the operation of the range control facility. The system will provide digital controller display consoles, automation hardware, and software to replace those approaching the end of their life cycle. FY06 funds will provide one system for the R-2508 Range at Edwards AFB, CA.</p>									
	<b>P-1 ITEM NO</b> 40		<b>PAGE NO:</b> 22		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TRAFFIC CONTROL/LANDING			
<b>Description (continued):</b>  c. RHEIN-MAIN TRANSFER PROGRAM: No FY06 funding requested.  d. VHF OMNI RANGE AND TACTICAL NAVIGATION (VORTAC) REPLACEMENT PROGRAM: The VORTAC consists of Very High Frequency Omni Range and Tactical Air Navigation systems that provide both range and azimuth to aircraft while enroute or performing terminal airport operations. The system is capable of providing flight data for an aircraft to intersect with an Instrument Landing System precision approach, as well as independently providing nonprecision approach data in the terminal airport area. Current operational VORTAC systems are approaching the end of their intended life cycle. This program will replace all VORTAC systems in Air Force Material Command. FY06 funding will procure two VORTAC systems. The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$1.5M for the Automatic Flight Following System pilot project at McEntire AFB.  e. AIR TRAFFIC CONTROL RADIO EQUIPMENT: No FY06 funding requested.  f. TOWER SIMULATION SYSTEM: No FY06 funding requested.  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, 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: The current mobile air traffic control system requires modernization to support military and civil aircraft operations at deployed locations and in the US. MACS is procured as two independent systems, the Airport Surveillance Radar Operations Shelter (ASR/Ops) and the Precision Approach Radar, which will be integrated into a single system. FY06 funds will retrofit and recondition five units built during R&D and deliver the systems to key AF locations.					
	<b>P-1 ITEM NO</b> 40		<b>PAGE NO:</b> 23		Page 2 of 3

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TRAFFIC CONTROL/LANDING		
<b>Description (continued):</b>  b. MACS READINESS SUPPORT PACKAGES: No FY06 funding requested.				
	<b>P-1 ITEM NO</b> 40		<b>PAGE NO:</b> 24	Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

**WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)**

**DATE:** FEBRUARY 2005

**APPROP CODE/BA:**  
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**  
TRAFFIC CONTROL/LANDING

WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AIR TRAFFIC CONTROL OPERATIONS				{ \$2,509 }			{ \$2,931 }			{ \$4,967 }			{ \$2,573 }
INSTRUMENT LANDING SYSTEMS	A			\$1,926			\$2,931						
EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM	A									\$3,432			
RHEIN-MAIN TRANSFER PROGRAM	A			\$583									
VHF OMNI RANGE AND TACTICAL AIR NAVIGATION (VORTAC) REPLACEMENT	A									\$1,535			\$1,580
AIR TRAFFIC CONTROL RADIO REPLACEMENT	A												\$993
TOWER SIMULATION SYSTEM	A			\$29,520									
MOBILE APPROACH CONTROL SYSTEM (MACS)										{ \$11,828 }			{ \$3,665 }
MOBILE APPROACH CONTROL SYSTEM (MACS)	A									\$11,828			
MACS READINESS SUPPORT PACKAGES	A												\$3,665

**P-1 ITEM NO**  
40

**PAGE NO:**  
25

Page 1 of 2

# UNCLASSIFIED

# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>										<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					<b>P-1 NOMENCLATURE:</b> TRAFFIC CONTROL/LANDING								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
AUTOMATIC FLIGHT FOLLOWING SYSTEM	A						\$1,500						
TOTALS:				\$32,029			\$4,431			\$16,795			\$6,238
<b>Remarks:</b> Total Cost information is in thousands of dollars.													
<b>P-1 ITEM NO</b> 40				<b>PAGE NO:</b> 26				Page 2 of 2					

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TRAFFIC CONTROL/LANDING						
ITEM / 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										
INSTRUMENT LANDING SYSTEMS(1,5)										
FY2004			AFMC/ASC	OPT/FFP	SAIC/SAN DIEGO, CA	Jan-04	Jan-05			
FY2005			AFMC/ASC	OPT/FFP	SAIC/SAN DIEGO, CA	Jan-05	Jan-06			
EDWARDS AFB R-2508 RANGE AUTOMATION SYSTEM(1-2)										
FY2006			AFMC/ESC	OPT/FFP	RATHEON CORP/MARLBORO, MA	Jan-06	Jan-07	Yes		
RHEIN-MAIN TRANSFER PROGRAM										
FY2004			HQ USAFE	PO/FP	THALES ATM, INC., KS	Mar-04	Dec-04			
VHF OMNI RANGE AND TACTICAL AIR NAVIGATION (VORTAC) REPLACEMENT(1)										
FY2006			AFMC/ASC	C/FFP	UNKNOWN	Jan-06	Apr-06	Yes		
FY2007			AFMC/ASC	C/FFP	UNKNOWN	Jan-07	Apr-07	Yes		
AIR TRAFFIC CONTROL RADIO REPLACEMENT(1,5)										
			<b>P-1 ITEM NO</b> 40			<b>PAGE NO:</b> 27	Page 1 of 3			

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TRAFFIC CONTROL/LANDING						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007			AFMC/ASC	OPT/FFP	SAIC/SAN DIEGO, CA	Jan-07	Jan-08	Yes		
TOWER SIMULATION SYSTEM(1,3)										
FY2004			AFMC/ASC	OPT/FFP	ADACEL/GRAND PRARIE, TX	Dec-03	Jun-04			
MOBILE APPROACH CONTROL SYSTEM (MACS)										
MOBILE APPROACH CONTROL SYSTEM (MACS)(1,4)										
FY2006			AFMC/ESC	OPT/FFP	ITT GILFILLAN/VAN NUYS, CA	Apr-06	Mar-07	Yes		
MACS READINESS SUPPORT PACKAGES(1,4)										
FY2007			AFMC/ESC	OPT/FFP	ITT GILFILLAN/VAN NUYS, CA	Jan-07	Dec-07	Yes		
AUTOMATIC FLIGHT FOLLOWING SYSTEM										
FY2005			AFMC/ASC	OPT/FFP	UNKNOWN	Jun-05	Dec-05	Yes		
<b>Remarks:</b>										
(1) Unit costs vary because of different types/configurations of equipment being procured. (2) Option to prior year Raytheon Corp, Marlboro MA. Aug 96 basic contract award (10 option years).										
			<b>P-1 ITEM NO</b> 40			<b>PAGE NO:</b> 28				
						Page 2 of 3				

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRAFFIC CONTROL/LANDING						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
(3) Option to prior year ADACEL Systems Inc., Grand Prairie TX. Contract completed with FY04 funds.										
(4) Option to prior year ITT Gilfillian, Van Nuys CA. Oct 00 basic contract award (3 option years).										
(5) Feb 02 base contract (5 option years).										
	<b>P-1 ITEM NO</b> 40			<b>PAGE NO:</b> 29					Page 3 of 3	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$26,895	\$40,361	\$51,919	\$55,675	\$57,043	\$58,238	\$60,477	\$61,139
<p><b>Description:</b></p> <p>The National Airspace System (NAS) program will modernize the Department of Defense (DoD) Air Traffic Control (ATC) system in conjunction with the Federal Aviation Administration (FAA) modernization effort. NAS will increase safety of flight, provide systems and facilities interoperable with FAA modernization, replace aging DoD ATC systems, provide identical service to military and civilian aircraft, reduce DoD flight cancellations/delays, and reduce maintenance. Equipment procured includes fixed site approach control, control towers, airfield automation systems, radar, voice switches, associated Pre-Planned Product Improvement, site preparation, installation support, ancillary equipment and supplies, and direct production support. The program maximizes the use of Non-Developmental Items. 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 will modernize 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. DOD ADVANCED AUTOMATION SYSTEM (DAAS): The DAAS is comprised of equipment tailored to support the operation of two types of ATC facilities: Radar Approach Control (RAPCON) and military control tower facilities. DAAS provides digital controller 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. FY06 funds procure and install eleven DAAS systems including dependent towers at AF locations.</p>								
	<b>P-1 ITEM NO</b> 41		<b>PAGE NO:</b> 30		Page 1 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM			
<b>Description (continued):</b> <p>2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR): The DASR consists of two subsystems: a primary and a secondary surveillance radar. DASR provides aircraft position and other data to controller displays in the RAPCON and at select control tower locations. DASR replaces the DoD current generation of analog ATC surveillance radar. FY06 funds procure and install five DASRs at key AF locations.</p> <p>3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS): No FY06 funding is requested.</p> <p>4. AIR FIELD AUTOMATION SYSTEM (AFAS): AFAS is an integrated data display system that integrates weather and airport environmental data, FAA flight data, airfield equipment status, administrative data, and remote video inputs on one display at air traffic control positions in RAPCON instrument flight rooms and tower cabs. The hardware is commercial-off-the shelf (COTS) servers, workstations, displays, touch screens, keyboards, and trackballs linked by industry standard communications interfaces. The software is COTS, or existing government-owned software modified to interface with Air Force sensors. AFAS will replace multiple displays currently used to provide this data at Air Force air traffic control positions. FY06 funds procure and install AFAS for 30 key Air Force locations.</p>					
	<b>P-1 ITEM NO</b> 41		<b>PAGE NO:</b> 31		Page 2 of 2

UNCLASSIFIED



# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
DOD ADVANCED AUTOMATION SYSTEM				{\$15,248}			{\$6,983}			{\$7,427}			{\$9,346}
DAAS	A			\$12,848			\$6,983			\$7,427			\$9,346
ANG RAPCON (JOHNSTOWN, PA)				\$2,400									
DIGITAL AIRPORT SURVEILLANCE RADAR				{\$7,434}			{\$28,298}			{\$42,368}			{\$44,167}
DASR PRIME MISSION EQUIPMENT	A						\$9,405			\$17,949			\$18,463
PROGRAM MANAGEMENT ADMIN (1)				\$4,761			\$8,378			\$8,867			\$8,500
SITE ACTIVATION (1)				\$2,673			\$10,516			\$15,552			\$17,204
VOICE COMMUNICATIONS SWITCHING SYSTEM				{\$4,213}									
VCSS	A			\$4,213									
AIRFIELD AUTOMATION SYSTEM							{\$5,080}			{\$2,124}			{\$2,162}

	<b>P-1 ITEM NO</b> 41		<b>PAGE NO:</b> 32	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
AFAS	A						\$5,080			\$2,124			\$2,162	
TOTALS:				\$26,895			\$40,361			\$51,919			\$55,675	
<p><b>Remarks:</b> Total Cost information is in thousands of dollars.</p> <p>(1) All Program Management Authority 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.</p>														
				P-1 ITEM NO 41						PAGE NO: 33				Page 2 of 2

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM						
ITEM / 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(5)										
DAAS(1-2)										
FY2004			AFMC/ESC	OPT/FFP	RAYTHEON CORP./MARLBORO, MA	Jan-04	Jan-05			
FY2005			AFMC/ESC	OPT/FFP	RAYTHEON CORP./MARLBORO, MA	Jan-05	Jan-06			
FY2006			AFMC/ESC	OPT/FFP	RAYTHEON CORP./MARLBORO, MA	Jan-06	Jan-07	Yes		
FY2007			AFMC/ESC	OPT/FFP	RAYTHEON CORP./MARLBORO, MA	Jan-07	Jan-08	Yes		
DIGITAL AIRPORT SURVEILLANCE RADAR										
DASR PRIME MISSION EQUIPMENT(1,3,5)										
FY2005			AFMC/ESC	DO/FFP	RAYTHEON CORP./MARLBORO, MA	Mar-05	Sep-06	Yes		
FY2006			AFMC/ESC	DO/FFP	RAYTHEON CORP./MARLBORO, MA	Dec-05	May-07	Yes		
FY2007			AFMC/ESC	DO/FFP	RAYTHEON CORP./MARLBORO, MA	Dec-06	May-08	Yes		
VOICE COMMUNICATIONS SWITCHING SYSTEM										
VCSS(1,4)										
		<b>P-1 ITEM NO</b> 41		<b>PAGE NO:</b> 34		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM						
ITEM / 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	
FY2004			AFMC/ESC	OPT/FFP	NORTHROP-GRUMMAN DENRO/GAITHERSBURG, MD	Feb-04	Jul-04			
AIRFIELD AUTOMATION SYSTEM										
AFAS(1)										
FY2005			AFMC/ESC	C/FFP	UNKNOWN	Mar-05	Mar-06	Yes		
FY2006			AFMC/ESC	OPT/FFP	UNKNOWN	Mar-06	Mar-07	Yes		
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Mar-07	Mar-08	Yes		
<p><b>Remarks:</b></p> <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 (9 options)</p> <p>(3) Option to the Air Force Digital Airport Surveillance Radar contract awarded in August 1996 (5 options).</p> <p>(4) Option to the FAA Enhanced Terminal Voice Switch contract awarded in July 1995 (5 options).</p> <p>(5) FY05 DASR option to be exercised in Mar 05 subject to completion of MOT&amp;E</p>										
			<b>P-1 ITEM NO</b> 41			<b>PAGE NO:</b> 35	Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> <small>(in Thousands)</small>	\$97,439	\$52,377	\$76,752	\$77,508	\$57,940	\$96,609	\$97,785	\$119,507
<p><b>Description:</b></p> <p>The Theater Air Control System Improvements (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 (BCS) Family of Systems. BCS is comprised of the Battle Control System-Mobile (BCS-M) Program, a mobile tactical BMC2 node and the BCS-Fixed (BCS-F) Program, supporting NORAD's Homeland Defense mission. Additionally, TACSI provides funding for procurement of Mission Planning Systems (formerly Air Force Mission Support System (AFMSS)) that provide unit level mission planning systems for pilots and supports all current/future aircraft and associated weapons.</p> <p>1. <b>BATTLE CONTROL SYSTEM (BCS-M):</b> The BCS-M is a low density/high demand deployable ground Battle Management Command and Control (BMC2) node conducting both theater and homeland defense operations. The BCS-M strategy supports the modernization of the current Control and Reporting Center (CRC). The CRC will continue to support current and future taskings until all phases of modernization are accomplished. The BCS-M provides the Joint Task Force/Joint Force Air Component Commander with a deployable BMC2 capability used to execute the air battle through control and direction of aircraft. The BCS-M conducts worldwide tactical-level BMC2 missions as follows: support Continental United States (CONUS) homeland defense (to include the national capital region), support outside CONUS missions to include military-operations-other-than-war, peacetime contingencies, and projecting decisive force into major regional conflicts in support of strategic war. The BCS-M deploys into a theater with its operations center located on or near a main operating base with deployable radars, tactical data links, and secure radio and satellite communications.</p>								
	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 36			Page 1 of 5		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b>  a. BCS-M EVOLUTIONARY UPGRADES: FY06 funding provides for BCS-M activities which include, but are not limited to, Remote Radio Secure Voice System, Remote Radar, Battle Control Center, Common Battle Management Software, and Sensor Replacement/Upgrade, transitioning Area Cruise Missile Defense Advanced Capabilities Technology Demonstration into BCS-M, leveraging capabilities from BCS-F and AWACS 40/45, and integrating evolutionary upgrades from legacy CRC into BCS-M. Development funding for this program is in Program Element 0207412F.  b. CRC IMPROVEMENTS: FY06 funding provides both evolutionary upgrades and reliability and maintainability improvements to the AN/TYQ-23 Operations Modules, the AN/TPS-75 Radar, and peripheral equipment through projects that include, but are not limited to, Operator Console Units, Joint Range Extension, the Service Life Extension Project, and radar shelter replacement/refurbishment.  c. INTERIM CONTRACTOR SUPPORT (ICS): FY06 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. EQUIPMENT REPLENISHMENT: No FY06 funding requested.  e. PROGRAM/ENGINEERING SUPPORT: FY06 funding provides program/engineering support for BCS-M.  2. BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is the Region Air Operations Center- Air Defense Sector (RAOC-ADS) for the Atmospheric Early Warning System. BCS-F is a bi-national cooperative program with Canada. The BCS-F program provides a modernized battle management command and control system with enhanced capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive recognized air picture. This Single 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's Homeland Defense battle management command and control (C2) hubs and integrators for data from radar					
	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 37		Page 2 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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>sensors, data links, and supporting communications architecture. They provide the tactical communications and data link capabilities with other military and civil systems responsible for conducting 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 provides 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: FY06 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): FY06 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/ENGINEERING SUPPORT: FY06 funding provides program/engineering support for BCS-F.</p> <p>3. MISSION PLANNING SYSTEMS: This program provides a suite of mission planning systems that can be integrated with Theater Battle Management (TBM) systems for aircrews to electronically receive tasking orders, intelligence information, target coordination, and imagery; prepare and calculate flight and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predications, and navigation databases); and electronically transfer this information to the aircraft and weapons. These systems increase the combat effectiveness of Air Force (active duty, guard, and reserve forces) aircraft, to include, but not limited to, unmanned air vehicles, low-observable aircraft, and weapons by increasing wartime sortie rates and survivability, supporting sophisticated avionics and precision/autonomous guided munitions, and providing the ability to analyze and defeat complex threats. The program procures</p>					
	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 38		Page 3 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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>UNIX and PC-based mission planning computers as well as engineering support to meet the varied requirements of Combat Air Forces and Mobility Air Forces. These systems provide a flexible, configurable, and cost effective range for increasing tactical and strategic capabilities to meet the continuum of peacetime contingencies and conventional and nuclear wartime mission planning requirements. The Mission Planning Systems program made a shift in the mission planning 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. These adjustments were made for the following technologically-driven reasons: the evolutionary nature of the Mission Planning Systems program 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. Each year, a variety of hardware platforms will be procured to meet the varied needs of Air Force mission planners. Market surveys and analysis of COTS products support procurement decisions. Development funding for the program is in Program Element (PE) 0208006F.</p> <p>a. UNIX-BASED MISSION PLANNING COMPUTER (UMPC): UMPC consists of a transportable, network-capable system integrated 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 procure charts and other mission-specific products. FY06 funding will procure these systems, associated hardware, warranties, data transfer devices, and software licenses.</p> <p>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, desktops, laptops, knee boards, data transfer devices, interface devices and associated software applications, Personal Digital Assistants, and table 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 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 procure charts and other mission-specific products. FY06 funding will procure these systems, associated hardware, warranties, data transfer devices, and software licenses.</p>					
	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 39		Page 4 of 5

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b>  c. PROGRAM/ENGINEERING SUPPORT: FY06 funding provides program/engineering support for Mission Planning Systems.  d. PRECISION AERIAL DELIVERY SYSTEM (PADS): No FY06 funding requested. The FY05 Appropriation report 108-622, dated 20 July 2004, included a Congressional add of \$1,000,000 to this program.					
	<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 40		Page 5 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
BATTLE CONTROL SYSTEM-(BCS-M)				(\$82,052)			(\$29,569)			(\$49,506)			(\$42,784)
BCS-M EVOLUTIONARY UPGRADES	A			\$14,052			\$21,931			\$45,237			\$39,233
CRC IMPROVEMENTS	A			\$3,900			\$6,310			\$1,050			
INTERIM CONTRACTOR SUPPORT (ICS)				\$86			\$235			\$746			\$1,912
EQUIPMENT REPLENISHMENT	A			\$64,014									
PROGRAM/ENGINEERING SUPPORT							\$1,093			\$2,473			\$1,639
BATTLE CONTROL SYSTEM (BCS-F) (1)				(\$4,303)			(\$7,986)			(\$12,007)			(\$18,254)
BCS-F EVOLUTIONARY UPGRADES	A			\$4,303			\$4,470			\$6,491			\$11,068
INTERIM CONTRACTOR SUPPORT (ICS)							\$3,139			\$5,128			\$6,787
PROGRAM/ENGINEERING SUPPORT							\$377			\$388			\$399
MISSION PLANNING SYSTEMS				(\$11,084)			(\$14,822)			(\$15,239)			(\$16,470)
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)	A			\$2,126			\$1,748			\$1,900			\$2,041
PC-BASED MISSION PLANNING COMPUTER (PMPC)	A			\$7,206			\$10,079			\$12,830			\$13,905

	<b>P-1 ITEM NO</b> 42	<b>PAGE NO:</b> 41	Page 1 of 2
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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
PROGRAM/ENGINEERING SUPPORT				\$1,752			\$1,995			\$509			\$524	
PRECISION AERIAL DELIVERY SYSTEM (PADS)	A						\$1,000							
TOTALS:				\$97,439			\$52,377			\$76,752			\$77,508	
<p><b>Remarks:</b> Total Cost information is in thousands of dollars.</p> <p>(1) There was an administrative error in the FY05 submission - FY04 funding for BCS-F was not reflected</p>														
				<b>P-1 ITEM NO</b> 42					<b>PAGE NO:</b> 42					

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT						
ITEM / 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-(BCS-M)										
BCS-M EVOLUTIONARY UPGRADES										
FY2004(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Dec-03	Sep-04			
FY2005(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-04	May-05			
FY2006(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-05	Mar-06	No	Jun-05	
FY2007(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Oct-06	Mar-07	No	Jun-06	
CRC IMPROVEMENTS										
FY2004(1-2)			AFMC/OO-ALC	OTH/OTH	MULTIPLE	Mar-04	Jan-05			
FY2005(1-2)			AFMC/OO-ALC	OTH/OTH	MULTIPLE	Jun-05	Jun-06	No	Mar-05	
FY2006(1-2)			AFMC/OO-ALC	OTH/OTH	MULTIPLE	Mar-06	May-07	No	Jan-06	
EQUIPMENT REPLENISHMENT										
FY2004(1-2)			AFMC/ESC	OTH/OTH	MULTIPLE	Feb-04	Sep-04			
BATTLE CONTROL SYSTEM (BCS-F)										
		<b>P-1 ITEM NO</b> 42		<b>PAGE NO:</b> 43		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
BCS-F EVOLUTIONARY UPGRADES										
FY2004(2)			AFMC/ESC	C/OTH	MULTIPLE	Dec-03	Jun-04			
FY2005(2)			AFMC/ESC	C/OTH	UNKNOWN	Mar-05	Jul-05	Yes		
FY2006(2)			AFMC/ESC	C/OTH	UNKNOWN	Mar-06	Jul-06	No	Mar-05	
FY2007(2)			AFMC/ESC	C/OTH	UNKNOWN	Mar-07	Jul-07	No	Mar-06	
MISSION PLANNING SYSTEMS										
UNIX-BASED MISSION PLANNING COMPUTER (UMPC)										
FY2004(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-03	Feb-04			
FY2005(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-04	Feb-05			
FY2006(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-05	Feb-06	Yes		
FY2007(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07	Yes		
PC-BASED MISSION PLANNING COMPUTER (PMPC)										
FY2004(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-03	Feb-04			
		<b>P-1 ITEM NO</b> 42				<b>PAGE NO:</b> 44		Page 2 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT						
ITEM / 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	
FY2005(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-04	Feb-05			
FY2006(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-05	Feb-06	Yes		
FY2007(3)			AFMC/ESC	OPT/FFP	MULTIPLE	Nov-06	Feb-07	Yes		
PRECISION AERIAL DELIVERY SYSTEM (PADS)										
FY2005(3)			AFMC/ESC	C/FFP	PLANNING SYSTEMS INC/RESTON, VA	Jan-05	May-05			
<p><b>Remarks:</b></p> <p>(1) Quantity and unit cost vary because different types/configurations of equipment being procured or equipment procured is site specific.</p> <p>(2) Various contract methods and types will be utilized. Examples of contractors include Northrop Grumman, Agoura Hills, CA; Northrop Grumman, Baltimore, MD; Raytheon, Fullerton, CA; Naval Air Warfare Center, Patuxent River, St Inigoes, MD; Innovative Solutions Consulting, Hollywood, CA; 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, IDIQ contracts, blanket purchase agreements. Examples of contractors include Dell Corporation, Austin, TX; Rugged Portable System (RPS), Santa Ana, CA; and Government Technology Services, Inc (GTSI), Chantilly, VA. Award/delivery dates reflect date of first award and delivery.</p>										
			<b>P-1 ITEM NO</b> 42			<b>PAGE NO:</b> 45				Page 3 of 3

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$32,595	\$30,328	\$35,723	\$35,292	\$22,499	\$29,034	\$33,565	\$32,879
<p><b>Description:</b></p> <p>Acquires meteorological and space environmental equipment supporting the global missions of the Air Force, Army, Special Operations Forces, combatant commands, and other government agencies. Fixed and transportable equipment will provide 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 lethality of Air Force weapons systems and precision munitions by accurately predicting environmental effects 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 35111F, BPAC 672738, 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. Components include the following:</p> <p style="margin-left: 20px;">a. OBSERVING SYSTEM 21ST CENTURY (OS-21): This component 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. FY06 funding procures both fixed base systems and upper-air sensing capability. Upper-air units profile atmospheric parameters from the surface through the upper atmosphere.</p>								
	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 46				Page 1 of 3	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST			
<b>Description (continued):</b>  b. IONOSPHERIC SENSING CAPABILITY: No FY06 funding requested.  c. NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SATELLITE SYSTEM (NPOESS) DIRECT READOUT TERMINAL: No FY06 funding requested.  2. PRODUCT TAILORING/WARFIGHTER APPLICATIONS: This program provides weather impact information to warfighters at theater and tactical levels. At the theater level, Operational Weather Squadrons (OWSs) provide timely, focused, fine-scale weather products and services to support operational commanders within a given Area of Responsibility. At the tactical level, Combat Weather Teams (CWTs) provide front-line weather information to AF and Army warfighters in direct support of combat operations. CWTs operate at both home station and deployed locations. FY06 funding procures integrated computer hardware and software suites and associated communications interfaces for operational weather support at fixed and deployed AF and Army locations in the Continental United States and overseas.  3. WEATHER DATA ANALYSIS: This program provides atmospheric data, forecast, and analysis capabilities to the AFW Strategic Center which generates products required by regional OWSs and CWTs in support of worldwide AF and Army customers. Also, this program acquires and implements weather data interfaces for command and control and mission planning systems. Other customers for these products include DoD and Department of Commerce agencies and the national intelligence community. FY06 funding procures computer hardware and associated integration software for database expansion and incorporation of weather data from next generation satellites, including the NPOESS.  4. WEATHER FORECASTING: This program provides cloud model and other environmental forecast products for worldwide AF, Army, Special Operations Forces and national intelligence community operations support. FY06 funding procures computer servers and high-capacity storage devices to establish connectivity with the NPOESS. This connectivity permits exploitation of new NPOESS environmental data records and improves worldwide forecast capability.					
	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 47		Page 2 of 3

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST			
<b>Description (continued):</b>  5. WEATHER DATA DISSEMINATION: This program provides a web-based interface and dissemination platforms for the timely and reliable transmission of weather data and products to intermediate and end users. The advanced interface and delivery method ensures data integrity and continuity of service. Weather data dissemination formats and transmission protocols also support DoD Technical Reference Model objectives for integration into the warfighter's command and control, mission planning, and rehearsal systems. FY06 funding procures COTS computer hardware and software and associated communications equipment.  In FY05, \$2.5M was added as directed by the FY05 MILCON Act, P.L. 108-324, Division B Hurricane relief.					
	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 48		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: WEATHER OBSERVATION FORECAST								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
WEATHER DATA COLLECTION				{\$17,757}			{\$17,906}			{\$9,780}			{\$9,171}
OS-21				{\$17,757}			{\$17,906}			{\$9,780}			{\$5,714}
PRIME MISSION EQUIPMENT	A			\$14,370			\$16,055			\$7,890			\$4,520
PROGRAM/ENGINEERING SUPPORT				\$3,387			\$1,851			\$1,890			\$1,194
IONOSPHERIC SENSING CAPABILITY													{\$2,500}
PRIME MISSION EQUIPMENT	A												\$2,250
PROGRAM/ENGINEERING SUPPORT													\$250
NPOESS DIRECT READOUT TERMINAL													{\$957}
PRIME MISSION EQUIPMENT	A												\$757
PROGRAM/ENGINEERING SUPPORT													\$200
PRODUCT TAILORING & WARFIGHTER APPLICATIONS				{\$5,515}			{\$4,023}			{\$10,312}			{\$10,290}
PRIME MISSION EQUIPMENT	A			\$4,385			\$2,958			\$8,130			\$8,128
PROGRAM/ENGINEERING SUPPORT				\$1,130			\$1,065			\$2,182			\$2,162

	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 49	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: WEATHER OBSERVATION FORECAST									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
WEATHER DATA ANALYSIS				{\$4,750}			{\$3,842}			{\$6,014}			{\$6,568}	
PRIME MISSION EQUIPMENT	A									\$3,500			\$2,222	
PRIME MISSION EQUIPMENT	A			\$3,852			\$2,380			\$2,014			\$3,417	
PROGRAM/ENGINEERING SUPPORT				\$898			\$1,462			\$500			\$929	
WEATHER FORECASTING										{\$2,200}			{\$775}	
PRIME MISSION EQUIPMENT	A									\$2,200			\$775	
WEATHER DATA DISSEMINATION				{\$4,573}			{\$4,557}			{\$7,417}			{\$8,488}	
PRIME MISSION EQUIPMENT	A			\$2,743			\$1,634			\$4,661			\$5,200	
PRIME MISSION EQUIPMENT	A			\$1,479			\$1,725			\$2,206			\$2,608	
PROGRAM/ENGINEERING SUPPORT				\$351			\$1,198			\$550			\$680	
TOTALS:				\$32,595			\$30,328			\$35,723			\$35,292	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 43					<b>PAGE NO:</b> 50					
												Page 2 of 2		

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE: FEBRUARY 2005

**APPROP CODE/BA:**  
OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**  
WEATHER OBSERVATION FORECAST

ITEM / 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									
FY2004(1-2)			AFMC/ESC	OPT/IDIQ	COASTAL ENVIRONMENTAL SYSTEMS/SEATTLE, WA	Dec-03	Feb-04		
FY2005(1-3)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-04	Feb-05		
FY2006(1-3)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-05	Feb-06	Yes	
FY2007(1)			AFMC/ESC	C/FFP	UNKNOWN	Dec-06	Aug-07	No	Jun-06
IONOSPHERIC SENSING CAPABILITY									
PRIME MISSION EQUIPMENT									
FY2007(1)			AFSPC/SMC	C/FFP	UNKNOWN	Jan-07	Jul-07	No	Jan-06
NPOESS DIRECT READOUT TERMINAL									
PRIME MISSION EQUIPMENT									
FY2007(1)			HQ AFWA	C/FFP	UNKNOWN	Jan-07	Sep-07	No	May-06

**P-1 ITEM NO**  
43

**PAGE NO:**  
51

Page 1 of 4

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST
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ITEM / 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
PRODUCT TAILORING & WARFIGHTER APPLICATIONS									
PRIME MISSION EQUIPMENT									
FY2004(1,4)			AFMC/ESC	OPT/OTH	MULTIPLE	Dec-03	Feb-04		
FY2005(1,4)			AFMC/ESC	C/OTH	MULTIPLE	Dec-04	Jan-05		
FY2006(1)			AFMC/ESC	C/CPAF	UNKNOWN	Dec-05	Jun-06	Yes	
FY2007(1)			AFMC/ESC	C/CPAF	UNKNOWN	Dec-06	Jun-07	Yes	
WEATHER DATA ANALYSIS									
PRIME MISSION EQUIPMENT									
FY2006(1)			HQ AFWA	C/FFP	UNKNOWN	Dec-05	Apr-06	Yes	
FY2007(1)			HQ AFWA	C/FFP	UNKNOWN	Dec-06	Apr-07	Yes	
PRIME MISSION EQUIPMENT									
FY2004(1)			AFMC/ESC	C/CPFF	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	May-04	Jun-04		
FY2005(1)			AFMC/ESC	C/CPFF	UNKNOWN	Mar-05	Jun-05	Yes	

	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 52	Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST						
ITEM / 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	C/CPFF	UNKNOWN	Mar-06	Jun-06	Yes		
FY2007(1)			AFMC/ESC	C/CPFF	UNKNOWN	Mar-07	Jun-07	Yes		
WEATHER FORECASTING										
PRIME MISSION EQUIPMENT										
FY2006(1)			HQ AFWA	C/FFP	UNKNOWN	Jan-06	Jun-06	Yes		
FY2007(1)			HQ AFWA	C/FFP	UNKNOWN	Jan-07	Jun-07	Yes		
WEATHER DATA DISSEMINATION										
PRIME MISSION EQUIPMENT										
FY2004(1,5)			HQ AFWA	C/FP	55TH CONTRACTING SQ./OFFUTT AFB, NE	Jan-04	Jun-04			
FY2005(1,5)			HQ AFWA	C/FP	55TH CONTRACTING SQ./OFFUTT AFB, NE	Dec-04	Jun-05			
FY2006(1)			HQ AFWA	C/FP	UNKNOWN	Feb-06	Jun-06	Yes		
FY2007(1)			HQ AFWA	C/FP	UNKNOWN	Feb-07	Jun-07	Yes		
PRIME MISSION EQUIPMENT										

	<b>P-1 ITEM NO</b> 43		<b>PAGE NO:</b> 53	Page 3 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION FORECAST						
ITEM / 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	
FY2004(1,6)			AFMC/ESC	C/OTH	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Feb-04	Jul-04			
FY2005(1,6)			AFMC/ESC	C/OTH	RAYTHEON TECHNICAL SERVICES/BELLEVUE, NE	Nov-04	Jul-05			
FY2006(1,6)			AFMC/ESC	C/OTH	UNKNOWN	Jan-06	Jul-06	Yes		
FY2007(1,6)			AFMC/ESC	C/OTH	UNKNOWN	Jan-07	Jul-07	Yes		
<p><b>Remarks:</b></p> <p>(1) Quantity and unit cost vary due to site-specific configurations.</p> <p>(2) Base contract was Nov 01, with 5 option years.</p> <p>(3) In FY05 and FY06 an additional contract C/IDIQ will be awarded for Upper Air observing systems to replace systems being depleted in Operation Iraqi Freedom.</p> <p>(4) Multiple contractors: For legacy projects - Raytheon, Fullerton, CA, CPFF, and Information Technology Contract with General Dynamics through GSA Kansas City, MO, Time &amp; Materials. Contract awarded to Northrup Grumman Space and Mission Systems and Raytheon, FFP, for contract fly-off with final down-select and contract award in FY06.</p> <p>(5) Contracts will be awarded for COTS equipment to multiple small business vendors by the 55th Contracting Squadron.</p> <p>(6) Time &amp; materials contract executed through GSA.</p>										
			<b>P-1 ITEM NO</b> 43			<b>PAGE NO:</b> 54	Page 4 of 4			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$44,928	\$48,027	\$44,690	\$39,061	\$40,130	\$44,834	\$31,360	\$31,864
<p><b>Description:</b></p> <p>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 system 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.</p> <p>1. <b>NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES):</b> NPES is the single, survivable national C2 automated information system 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 AF is the lead service. This funding covers the development and testing of fixed and mobile command center platforms. FY06 funding will procure life-cycle upgrade of the NPES development suite.</p> <p>2. <b>MOBILE CONSOLIDATED COMMAND CENTER (MCCC):</b> The United States Strategic Command (USSTRATCOM) Mobile Consolidated Command Center (MCCC) provides survivable and enduring C2 for the US strategic, space, and selected nonstrategic forces throughout the entire spectrum of conflict, to include homeland security. The MCCC program satisfies numerous elements of the Strategic Planning Guidance (SPG), the most important of which are sustaining a credible strategic deterrent and ensuring access to space-based systems. The MCCC ensures no adversary can disrupt the link between the President, Secretary of Defense, Combatant Commanders, and warfighting forces. FY06 funding initially funds Super High Frequency (SHF) Defense Satellite Communications System (DSCS) replacement; initially funds High Frequency (HF)/Ultra High Frequency (UHF) radio replacement; completes funding for the mobile Emergency Action Message (highly structured, authenticated messages primarily used in the command and control of nuclear forces)</p>								
	<b>P-1 ITEM NO</b> 44		<b>PAGE NO:</b> 55				Page 1 of 3	

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b>  system; initially funds intelligence community-unique computer systems; and procures spare parts and equipment.  3. C2 MODERNIZATION: USSTRATCOM's C2 Modernization is a program for 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 Joint Vision 2020 and further dictated by Unified Command Plans (UCP) 1 and 2. C2 Modernization provides the infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision-making. FY06 upgrades include: enterprise workstations and consoles; facility hardware; audio/visual systems upgrades; server upgrades in support of the Enterprise Database and the Concept of Operations (COP); and network upgrades (Last Mile).  4. INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN): The mission of USSTRATCOM is to establish and provide full-spectrum global strike, 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. To enable USSTRATCOM to carry out its mission, ISPAN infrastructure capabilities develop, verify, and produce Operational Plans (OPLAN) and Concept of Operations Plans (CONPLAN), Theater Support Planning Documents, new Unified Command Plan (UCP) taskings, and related products. To support its mission objectives, ISPAN includes Automatic 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 the 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 crews' strike mission data in digital and hard copy formats. USSTRATCOM developed a hardware six-year life-cycle refresh plan to replace servers, storage devices, workstations, personal computers, and network upgrades. This life-cycle refresh plan eliminates the peaks and valleys to better utilize existing manpower to install and configure the refresh hardware, providing an incremental and efficient life-cycle refresh of critical infrastructure components. FY06 funding will begin the life-cycle refresh of the Top Secret Single Integrated Operational Plan (SIOP) network, to include network and encryption equipment.					
	<b>P-1 ITEM NO</b> 44		<b>PAGE NO:</b> 56		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b>					
<p>5. USSTRATCOM STRATEGIC THREAT ANALYSIS and REPORTING SYSTEM (STARS): The USSTRATCOM Command Center Processing and Display System-Replacement (CCPDS-R) Unique Subsystem is the only automated system to provide time-critical Strategic Force Management and Force Survivability information that includes force status, Time to Impact, and Positive Control to Launch advisories. Information supports the President, Secretary of Defense, Joint Staff, and nuclear Combatant Commanders in the initial phase of a theater or strategic/nuclear conflict. FY06 funding provides for a STARS development suite for creating and maintaining the application, a test suite, a scenario-generation system for training and operator proficiency, and a Command Center operational suite. The test suite will serve as backup for the operational system.</p>					
<p>6. B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability. FY06 funds support the following B-2 dedicated systems:</p>					
<p>a. ENGINEERING DATA SYSTEMS (EDS): EDS provides engineers with specialized computers for on-line access to B-2 aircraft data. This 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, which are integral to strategic C2. Locations with EDS computers include: Langley AFB, VA; Whiteman AFB, MO; Wright-Patterson AFB, OH; Oklahoma City Air Logistics Center, OK; and Northrop Grumman Corp, CA. FY06 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.</p>					
<p>b. WEAPON SYSTEM SUPPORT CENTER (WSSC): The WSSC, located at Oklahoma Air Logistics Center, OK, provides software support and maintenance for the 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. FY06 funding continues the replacement of computer upgrades 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.</p>					
	<b>P-1 ITEM NO</b> 44		<b>PAGE NO:</b> 57		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	A		\$7,591		\$1,470		\$2,731		\$1,500
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A		\$11,424		\$9,918		\$9,426		\$11,997
C2 MODERNIZATION	A		\$9,364		\$12,724		\$16,990		\$6,449
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)	A		\$8,106		\$15,301		\$6,730		\$10,023
STRATEGIC THREAT ANALYSIS AND REPORTING SYSTEM (STARS)	A		\$950		\$1,000		\$1,000		\$1,000
B-2 SUPPORT			{\$7,493}		{\$7,614}		{\$7,813}		{\$8,092}
ENGINEERING DATA SYSTEMS (EDS)	A		\$2,194		\$2,007		\$3,348		\$3,809
WEAPON SYSTEM SUPPORT CENTER (WSSC)	A		\$5,299		\$5,607		\$4,465		\$4,283
<b>TOTALS:</b>			\$44,928		\$48,027		\$44,690		\$39,061
<b>Remarks:</b> Cost information is in thousands of dollars.									
	<b>P-1 ITEM NO</b> 44			<b>PAGE NO:</b> 58					Page 1 of 1

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL						
ITEM / 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)(1)										
FY2004(5)			USSTRATCOM	C/FP	MULTIPLE	Nov-03	Jan-04			
FY2005			USSTRATCOM	C/FP	UNKNOWN	Mar-05	May-05	Yes		
FY2006			USSTRATCOM	C/FP	UNKNOWN	Mar-06	May-06	No	Feb-05	
FY2007			USSTRATCOM	C/FP	UNKNOWN	Mar-07	May-07	No	Feb-06	
MOBILE CONSOLIDATED COMMAND CENTER (MCCC)(1-2)										
FY2004			AFMC/ESC	C/PAF W/OPT	LOCKHEED MARTIN/ALBUQUERQUE, NM	Oct-03	Jan-04			
FY2005			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ALBUQUERQUE, NM	Feb-05	May-05			
FY2006			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ALBUQUERQUE, NM	Feb-06	May-06	No	Feb-05	
FY2007			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/ALBUQUERQUE, NM	Feb-07	May-07	No	Feb-06	
C2 MODERNIZATION(1)										
			<b>P-1 ITEM NO</b> 44			<b>PAGE NO:</b> 59				Page 1 of 4

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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ITEM / 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
FY2004(5)			USSTRATCOM	C/FP	MULTIPLE	Jan-04	Feb-04		
FY2005			USSTRATCOM	C/FP	UNKNOWN	Mar-05	May-05	Yes	
FY2006			USSTRATCOM	C/FP	UNKNOWN	Mar-06	May-06	No	Jan-06
FY2007			USSTRATCOM	C/FP	UNKNOWN	Mar-07	May-07	No	Jan-07
INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN)(1)									
FY2004(4)			USSTRATCOM	C/PAF W/OPT	COMPUTER SCIENCE CORPORATION/FALLS CHURCH, VA	Jul-04	Sep-04		
FY2005(4)			USSTRATCOM	OPT/CPAF	COMPUTER SCIENCE CORPORATION/FALLS CHURCH, VA	Dec-04	Apr-05		
FY2006(4)			USSTRATCOM	OPT/CPAF	COMPUTER SCIENCE CORPORATION/FALLS CHURCH, VA	Dec-05	May-06	Yes	
FY2007(4)			USSTRATCOM	OPT/CPAF	COMPUTER SCIENCE CORPORATION/FALLS CHURCH, VA	Dec-06	May-07	Yes	

	<b>P-1 ITEM NO</b> 44		<b>PAGE NO:</b> 60	Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
STRATEGIC THREAT ANALYSIS AND REPORTING SYSTEM (STARS)										
FY2004(1,3)			USSTRATCOM	C/FFP	MULTIPLE	Feb-04	Mar-04			
FY2005(1)			USSTRATCOM	C/FFP	UNKNOWN	Mar-05	May-05	No	Feb-05	
FY2006(1)			USSTRATCOM	C/FFP	UNKNOWN	Mar-06	May-06	No	Mar-05	
FY2007(1)			USSTRATCOM	C/FFP	UNKNOWN	Mar-07	May-07	No	Mar-05	
B-2 SUPPORT										
ENGINEERING DATA SYSTEMS (EDS)(1)										
FY2004(3)			AFMC/OC-ALC	C/FP	MULTIPLE	Mar-04	Apr-04			
FY2005			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-05	Apr-05	Yes		
FY2006			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-06	Apr-06	Yes		
FY2007			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-07	Mar-07	Yes		
WEAPON SYSTEM SUPPORT CENTER (WSSC)(1)										
		<b>P-1 ITEM NO</b> 44				<b>PAGE NO:</b> 61		Page 3 of 4		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL						
ITEM / 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	
FY2004(3)			AFMC/OC-ALC	C/FP	MULTIPLE	Mar-04	Jul-04			
FY2005			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-05	Jul-05	Yes		
FY2006			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-06	Apr-06	Yes		
FY2007			AFMC/OC-ALC	C/FP	UNKNOWN	Mar-07	Apr-07	Yes		
<p><b>Remarks:</b></p> <p>(1) Varying unit costs and quantities due to multiple types of equipment being procured.</p> <p>(2) Lockheed Martin contract first awarded Feb 1, 2000.</p> <p>(3) Procurement through various GSA contract sources and contractors. Contractors include: Transtel, Inc., Oklahoma City, OK; TRW, Oklahoma City, OK; Telos, Oklahoma City, OK; DEC Microsystems, Oklahoma City, OK; IBM, Oklahoma City, OK. Award/delivery dates are the date of first contract award and delivery.</p> <p>(4) Option to prior year Computer Science Corporation, Falls Church, VA. Jul 04 basic contract award with nine option years.</p> <p>(5) Procurement through various GSA contract sources and contractors. Contractors include: Government Technology Service, Inc., Chantilly, VA; Worldwide Technology, St Louis, MO; Sun Microsystems, Mountain View, CA; ANIXTER, Reston, VA; Storage Area Networks, Castle Rock, CO; and Gateway 2000, North Sioux City, SD. Award/delivery dates are the date of first contract award and delivery.</p>										
			<b>P-1 ITEM NO</b> 44			<b>PAGE NO:</b> 62	Page 4 of 4			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$20,460	\$15,592	\$23,009	\$19,276	\$18,420	\$22,615	\$28,928	\$29,386	
<p><b>Description:</b></p> <p>This program supports acquisition for 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 Message 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 Mobile Consolidated Command Center, and the Cheyenne Mountain Training System.</p> <ol style="list-style-type: none"> <li>1. <b>COMBATANT COMMANDER MOBILE CONSOLIDATED COMMAND CENTERS (MCCC):</b> The Combatant Commander MCCC provides contingency reconstitution and continuity of command capabilities to accomplish directed Combatant Commander missions in the event primary command and control facilities are incapacitated. FY06 funding will procure upgrades of systems including Global Broadcast System, Global Command and Control System - Top Secret, and HF/UHF radio upgrades. In addition, FY06 funding will procure replacement components for commercial-off-the-shelf (COTS) products, which are integral to the MCCCs. Replacement components assures COTS products remain current and within the manufacturer's 18 month life cycle. These replacement components assure continuous interoperability with other command and control centers to meet Combatant Commander missions.</li> <li>2. <b>NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT (NCOMC-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</li> </ol>									
	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 63		Page 1 of 3				

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX			
<b>Description (continued):</b> operating locations, to include remote interfacing sites essential for executing US Strategic Command and NORAD missions exercised from the Cheyenne Mountain Operations Center and forward operating locations. (Reference the Research, Development, Test, and Evaluation Budget Justification Exhibits for Program Element 0305906F).  a. CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE: This program acquires the critical system components that comprise the information technology foundation for CCIC2S. Specifically, this includes the development of: system operations, communications, networks, command and control (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. FY06 funds will procure Communications Processing System equipment, to include servers, client workstations, installations, and upgrades. Funds will also procure Core C2 enterprise capabilities in support of missile warning and space missions.  b. INTERACTIVE TRAINING SYSTEM AND SCENARIO SERVICES: No FY06 funds are requested.  c. MISSILE ANALYSIS AND REPORTING SYSTEM (MARS): FY06 funds will procure equipment and software for MARS, which consists of a single architecture that provides both strategic and theater missile warning capabilities. The MARS project will deliver enhanced missile warning functionality by providing improved situational awareness and more timely and accurate assessments that will evolve to provide multisource data correlation. This integrated approach to achieving a single integrated missile warning capability will extend from sensor to decision-maker, and will result in great efficiencies in assessments during peace or crisis operations.  d. SPACE COMMMAND AND CONTROL: This effort provides Combatant Commanders with a single, coherent view of the space arena. It enables and enhances the monitoring of resident space objects as well as space capabilities and status. It also enables integrated assessment, planning and execution through specific applications available to Combatant Commanders.					
	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 64		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX			
<b>Description (continued):</b> <p>(1) SPACE DEFENSE: FY06 funds will procure equipment for Space Defense/Space Control capability. This system provides an initial space common operating picture, enhancements to mission capability reporting, and directed-energy/electronic interference analyses.</p> <p>(2) SPACE SURVEILLANCE: This system maintains space situation awareness by identifying, tracking, characterizing, and monitoring all man-made objects in earth orbit. FY06 funds will purchase incremental space surveillance capability designed to support high accuracy catalog maintenance and products for a future expanded resident space object catalog.</p> <p>(3) SINGLE INTEGRATED SPACE PICTURE (SISP): SISP will provide combatant commanders enhanced space situational awareness with a single up-to-date, coherent view of space forces capabilities/status. FY06 funds will procure initial equipment (enterprise work stations, servers, back-up servers, hardware guards, routers, switches, all other necessary cabling, etc.) and software for SISP development. Equipment will be installed and integrated into a test lab, STRATCOM Global Operation Center, Falconer Air Operation Centers (Falconer AOC is the weapon system the Commander, Air Force Forces, provides the Joint Forces Air Component Commander for planning and executing theater-wide aerospace forces), and other required locations.</p>					
	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 65		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CHEYENNE MOUNTAIN COMPLEX	A								
COMBATANT COMMANDER MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A		\$1,093				\$4,169		\$4,378
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS	A		{\$19,367}		{\$15,592}		{\$18,840}		{\$14,898}
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE	A		\$3,176		\$5,873		\$5,510		\$4,139
INTERACTIVE TRAINING SYSTEM AND SCENARIO SERVICES	A		\$1,985		\$883				
MISSILE ANALYSIS AND REPORTING SYSTEM (MARS)	A		\$6,860		\$5,302		\$7,540		
SPACE COMMAND AND CONTROL (C2)			{\$7,346}		{\$3,534}		{\$5,790}		{\$10,759}
SPACE DEFENSE	A		\$894		\$1,944		\$1,820		\$3,769
SPACE SURVEILLANCE	A		\$6,452		\$1,590		\$2,730		\$5,660
SINGLE INTEGRATED SPACE PICTURE (SISP)	A						\$1,240		\$1,330
<b>TOTALS:</b>			\$20,460		\$15,592		\$23,009		\$19,276

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

	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 66		Page 1 of 1
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX						
ITEM / 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)										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	Feb-06	Yes		
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-06	Feb-07	Yes		
NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS										
CORE C2 ENTERPRISE NETWORK INFRASTRUCTURE										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2005(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-04	Feb-05			

	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 67	Page 1 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX						
ITEM / 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)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	Jan-06	Yes		
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-06	Jan-07	Yes		
INTERACTIVE TRAINING SYSTEM AND SCENARIO SERVICES										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2005(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-04	Feb-05			
MISSILE ANALYSIS AND REPORTING SYSTEM (MARS)										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2005(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-04	Feb-05			
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	Feb-06	Yes		

	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 68	Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX						
ITEM / 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 COMMAND AND CONTROL (C2)										
SPACE DEFENSE										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2005(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-04	Feb-05			
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	Feb-06	Yes		
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-06	Feb-07	Yes		
SPACE SURVEILLANCE										
FY2004(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-03	Feb-04			
FY2005(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-04	Feb-05			
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	Feb-06	Yes		

	<b>P-1 ITEM NO</b> 45		<b>PAGE NO:</b> 69	Page 3 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-06	Feb-07	Yes		
SINGLE INTEGRATED SPACE PICTURE (SISP)										
FY2006(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-05	May-06	Yes		
FY2007(1-2)			AFMC/ESC	OPT/CPAF	LOCKHEED MARTIN/COLORADO SPRINGS, CO	Dec-06	May-07	Yes		
<b>Remarks:</b>										
<p>(1) Various quantities and unit costs due to different site configurations.</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>										
			<b>P-1 ITEM NO</b> 45			<b>PAGE NO:</b> 70				Page 4 of 4

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$79,730	\$107,627	\$110,997	\$120,398	\$100,510	\$96,768	\$91,266	\$95,898
<p><b>Description:</b></p> <p>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 infrastructure from the Combat Information Transport System, the expeditionary base Theater Deployable Communications program, and via connections through teleport gateways, will 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: 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.</p> <p>11TH WING (11WG)</p> <p>1. HEADQUARTERS INFORMATION TECHNOLOGY INVESTMENT: FY06 funding provides significant infrastructure improvements in many IT categories at Headquarters, United States Air Force. 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. They need high-quality, high-speed connections to classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network. Personnel will also receive centralized capabilities such as business-quality electronic mail and network</p>								
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 71				Page 1 of 12	

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> management through programs such as the Network File Sharing System. Other investments include World Wide Web capabilities, remote computing, and video teleconferencing.  2. HEADQUARTERS MAINFRAME SYSTEM SUPPORT: Numerous IT upgrades are accomplished with FY06 funding. Magnetic tape systems are upgraded to meet increasing data storage requirements and enhance read/write capability and archival storage capacity. FY06 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 architecture 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.  3. DISASTER RECOVER PROGRAM (DRP): DRP supports Defense Intelligence Agency plans for data recovery capability of mission-critical intelligence information used at the Unified Command level and the Tailored Intelligence Materials Production Program which procures hardware and software necessary to provide aircrews with worldwide virtual intelligence mission planning capabilities. FY06 funding enables information recovery on Top Secret--Special Compartmented Information level networks. Funds will procure servers, storage devices, associated hardware, initial installation, as well as continued expansion of high-speed classified data transfer capability for tailored intelligence production at the 20th Intelligence Squadron, Offutt AFB, NE, and the 27th Intelligence Squadron, Langley AFB, VA.  4. JOINT INTERFACE CONTROL OFFICER SUPPORT SYSTEM (JSS): FY06 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. This acquisition also includes data exchange requirements, corrects network deficiencies, transmits, and receives in the Multi-TADIL Data Link Network. The Common Core Capability is a common suite of software and hardware delivered to the services for integration into					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 72		Page 2 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> 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. The Joint Requirements Oversight Council validated and approved the JSS Operational Requirements Document. Refer to Research, Development, Test, and Evaluation (RDT&E) Budget Justification Exhibits for Program Element 0207434F.					
5. OBJECTIVE GATEWAYS/JOINT RANGE EXTENSION: FY06 Joint Range Extension Transparent Multi Platform Gateway (TMPG) Equipment Packages (JTEP) production will procure deployable elements for the Pocket J Program and enable establishment of localized Link-16 to Situational Awareness Data Link (SADL) connectivity and forwarding to Air Defense Sector operations centers. Funds will upgrade the legacy gateway System of Systems (SoS) to include upgrades to processing capability, operating system updates, addition of terminal and host input/output, complete the fielding of a gateway architecture, and upgrade displays and associated Graphical User Interfaces. Funds will also procure support equipment to enable C2 Enterprise Integration and Ground Mobile systems to meet urgent requirements for data link capabilities in the field.					
6. TACTICAL DATA LINK (TDL) FIELD ENGINEERING SERVICES (FES): FY06 funding provides capabilities and services required to execute the initial fielding, capability integration, and interoperability, as well as network engineering services of TDLs across USAF platforms.					
7. AIR FORCE PARTICIPATING TEST UNIT (AFPTU): No FY06 funds are requested.					
8. AIR FORCE HISTORICAL RESEARCH AGENCY: FY06 funding procures support for the electronic imaging infrastructure of the Inferential Retrieval Indexing System (IRIS II). IRIS will provide the capability to convert paper and microfilm documents to a digital format, and to organize them into an electronic document management system. Funds will provide the capability to collect, organize, and disseminate historical paper and electronic documents for official researchers, warfighters, planners, and professional military students at Air University.					
9. BUSINESS TRANSFORMATION INVESTMENT PROGRAM: No FY06 funds are requested.					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 73		Page 3 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY				
<b>Description (continued):</b>						
10. DISTRIBUTED TRAINING AND EXERCISES: FY06 provides initial funding for wargaming/analysis suites for a Joint Warfighting System (JWARS) to be distributed in Washington, D.C. and to four Air Force bases. Funds will also procure computer software and hardware.						
11. PERSONNEL SERVICE DELIVERY: FY06 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.						
AIR COMBAT COMMAND (ACC)						
12. BASE OPERATIONS: FY06 funds procure modern Training and Range Command and Control (C2) equipment for Combat Air Forces operations electronic and communications connectivity. Funds will allow for the replacement of C2 consoles at 13 ACC units.						
AIR EDUCATION AND TRAINING COMMAND (AETC)						
13. TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): FY06 funds provide IT modernization systems, to include workstations, servers, software, and secure communications for TTMS between technical training bases and their respective field training detachments, operating locations, and basic military training organizations. Funds will be used to automate resource tracking within TTMS. TTMS is a tool for the management of all technical training students and resources, design and development of courses, evaluation of training to include testing and critiques, and management of employee records. This system meets advanced technical training requirements for 175,000 trainees per year in 20 different career fields.						
14. AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) EDUCATION AND RESEARCH SYSTEM (EARS): AFIT and EARS provide advanced academic education for USAF, DoD, and foreign military officers to meet Institute-wide requirements for AFIT's unique education, research, consulting, and						
		<b>P-1 ITEM NO</b> 48			<b>PAGE NO:</b> 74	Page 4 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> academic support missions. FY06 funds procure servers, enterprise backup, storage and retrieval systems, high-speed parallel-computing devices, and high-bandwidth internet working equipment to support multimedia delivery and collaborative applications. Funds procure bandwidth, required replacement of, and upgrades to, central academic computing systems and network architecture.					
15. EDUCATION AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM: This program provides innovative applications of commercial off-the-shelf, state-of-the-art technologies in the education and training arena. It allows AETC managers the opportunity to prioritize potential applications according to mission- critical needs. The implementation of these systems increases training efficiency and prepares units to fully utilize new information technologies such as the Internet for the betterment of education and training. FY06 funds continue procurement of computer hardware to support technology applications.					
16. AIR UNIVERSITY (AU): These funds support efforts to migrate to the Education Management System (EMS). EMS implements effective and efficient education information management practices at AU. 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. FY06 funds establish information infrastructure to facilitate research, enhance curriculum, and provide information required to execute the education mission. Funds also purchase upgrades to the enterprise platform architecture and interoperability between education curriculums.					
17. AIR FORCE RECRUITER INFORMATION SUPPORT SYSTEM (AFRISS): AFRISS II is the AF's modernization program to replace the legacy system, Procurement Management Information System. FY06 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.					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 75		Page 5 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>					
18. PROFESSIONAL MILITARY EDUCATION: No FY06 funding requested.					
AIR FORCE COMMUNICATIONS AGENCY					
19. KEESLER COMPUTER NETWORK TRAINING: No FY06 funding requested.					
AIR FORCE MANPOWER and INNOVATION AGENCY					
20. MANPOWER DATA SYSTEMS: No FY06 funding requested.					
AIR FORCE MATERIEL COMMAND (AFMC)					
21. 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 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. FY06 funds will 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					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 76		Page 6 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> mission-critical computer resource.					
22. NETWORK SERVICES: FY06 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.					
23. WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS): WSMIS provides an automated logistics decision support system to ensure that USAF weapon system and combat forces meet wartime taskings as well as peacetime operating requirements. FY06 funds procure computer hardware, software licenses, and associated peripheral equipment for the transition to WSMIS web-enabled capability from Readiness Spares Packages, Computation and Assessment System, Supportability Analysis Visibility, Warfighter Briefing, and the Supply Chain Common Operating Picture, while also supporting legacy systems. FY06 funds will satisfy new WSMIS decision support processes in unclassified and classified environments, and ensure these implementations maintain the foundation infrastructure to achieve Defense Information Infrastructure Common Information Environment (DII CIE) Global Combat Support System compatibility. The purpose of DII CIE is to field systems with increasing interoperability, reusability, portability, and operational capability, while reducing development time, technical obsolescence, training requirements, and life-cycle cost.					
24. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) POINT OF MAINTENANCE (POMX) (a subset of the Integrated Maintenance Data System [(IMDS)]): IMDS is an incremental evolutionary developed system that will incorporate, replace, or subsume a currently estimated 50 plus number of legacy maintenance information systems into a single integrated maintenance data system. POMX will support multiple disciplines (i.e., maintenance, munitions, etc.) and introduce automatic information technology into the workplace reducing the user data collection burden. This capability will enable all POMX users to record their work efforts into IMDS from the work location, and in so doing, increase the data accuracy and minimize the data latency. FY06 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.					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 77		Page 7 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>					
<p>25. EAGLE VISION: Eagle Vision is a family of systems that provide commercial imagery data to operational commanders for mission planning, rehearsal, visualization, and intelligence support purposes. Eagle Vision is composed of the Data Acquisition System (DAS) and Data Integration System (DIS). FY06 funds support procurement of EV6, Eagle Vision DAS, and DIS upgrades. These upgrades support improved processing capability, additional satellite capabilities, and baseline upgrades. The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$3,500,000 to this program.</p>					
<p>26. EAGLE SCOUT: The FY05 Appropriation report 108-622, dated 20 July 2004, included a Congressional add of \$1,500,000 to this program. No FY06 funding requested.</p>					
<p>27. INTEGRATED BROADCAST SYSTEM (IBS): The IBS is a multisensor, multisource integrated interactive dissemination capability. IBS provides intelligence producers and information sources the means to analyze and disseminate strategic, operational, and tactical intelligence information to the warfighter. The IBS operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination capabilities to a common architecture and message format. The IBS provides a Sensitive Compartmented Information (SCI) network capability to permit coordination and tip-offs between intelligence producers and users. FY06 funds procure hardware and associated software upgrades/licenses for IBS operational baseline critical physical components. Refer to the Research, Development, Test and Evaluation (RDT&amp;E) Budget Justification Exhibits for Program Element (PE) 0301579F.</p>					
<p>28. SCIENCE AND ENGINEERING LAB DATA INTEGRATION: The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$4,900,000 to this program. No FY06 funding requested.</p>					
<p>29. ADR - AERONAUTICAL SYSTEM CENTER: The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$1,000,000 to this program. No FY06 funding requested.</p>					
AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 78		Page 8 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>					
<p>30. AFOSI COMPUTER NETWORK: 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. FY06 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.</p>					
<p>31. DEFENSE CYBER CRIME CENTER (DC3): The DoD DC3 is comprised of the DoD Computer Forensic Laboratory, the DoD Computer Investigations Training Program, and the DoD Cyber Crime Institute. 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. FY06 funds procure media analysis and training workstations, peripherals, and software essential to conducting computer forensic analysis and teaching computer forensics.</p>					
<p>AIR FORCE PERSONNEL CENTER (AFPC)</p>					
<p>32. PERSONNEL DATA SYSTEM: FY06 funding provides for the operational/sustainment of the 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.</p>					
<p>33. REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: FY06 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</p>					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 79		Page 9 of 12

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> Benefits and Information System, Interactive Voice Response System, RESUMIX (Civilian Personnel Decision Support System), Business Objects, and the Civilian Announcement Notification System.					
34. VIRTUAL MILITARY PERSONNEL FLIGHT: No FY06 funding requested.					
AIR INTELLIGENCE AGENCY					
35. OFFENSIVE INFORMATION WARFARE (IW) SUPPORT: FY06 funding provides computers, computer-related memory storage, local and long-haul communications, contractor information system specialities, infrastructure, and unique intelligence and analysis equipment required to support IW analysis which delivers timely AF IW capabilities for training, electronic warfare systems capabilities analysis, and combat operations.					
US AIR FORCE ACADEMY					
36. AIR FORCE ACADEMY COMPUTER SUPPORT: FY06 funding continues the modernization of the Cadet Administrative Management Information System (CAMIS) from the legacy platform to an upgraded platform supporting migration to Windows NT. CAMIS supports all facets of student management.					
US AIR FORCES IN EUROPE (USAFE)					
37. INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): This project provides continued equipment upgrades for USAFE intelligence ADP systems and communications networks. FY06 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.					
38. WARRIOR PREPARATION CENTER (WPC): The WPC provides senior battle commanders and their staff the opportunity to train at the operational					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 80		Page 10 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b> <p>level of war using interactive computer simulations that replicate, as closely as possible, the real-world environment. The WPC extends this training opportunity to our NATO allies. Additionally, WPC supports real-world operations as well as exercise requirements in remote areas such as Turkey. The WPC's robust training schedule consists of 10-12 exercises/computer-assisted events per year, including some worldwide exercises involving up to 9,000 personnel. A large portion of WPC workstations, terminals, and peripherals are nearing the end of their life cycle and are too costly to repair. FY06 funds continue procurement of simulation workstations, terminals, and peripheral equipment to meet USAFE mission needs.</p> <p>UNITED STATES NORTHERN COMMAND (USNORTHCOM)</p> <p>39. USNORTHCOM ARCHITECTURE AND INTEGRATION: FY06 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. The system also provides information protection measures against cyber attacks, including secure data exchanges with Homeland Security partners, and continue connectivity with DoD's network infrastructure. Funds also provide communication infrastructure for USNORTHCOM Headquarter's existing buildings.</p> <p>US STRATEGIC COMMAND (USSTRATCOM)</p> <p>40. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE: The USSTRATCOM unclassified and classified Command Management Local Area Network provides users a standard suite of software applications. FY06 funding continues infrastructure and component upgrades for network file servers, mail servers, and printer servers; stratus servers (a new technology server capable of zero interruption in processing, zero loss of performance, and zero loss of data integrity) and Standard Query Language servers; and gateways, hubs, routers, and other associated network peripherals.</p> <p>AIR FORCE SAFETY CENTER</p> <p>41. AUTOMATED SAFETY SYSTEMS: No FY06 funding requested.</p>					
	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 81		Page 11 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY			
<b>Description (continued):</b>					
AIR FORCE SPACE COMMAND/SPACE AND MISSILE CENTER					
42. RDT&E SUPPORT COMPLEX (RSC)/CENTER FOR RESEARCH SUPPORT (CERES) UPGRADES: FY06 funding procures RSC/CERES computer and hardware upgrades to improve the consolidated satellite telemetry, tracking, and commanding facilities at Kirkland AFB, NM, and Schriever AFB, CO. Additionally, FY06 funding supports upgrades to worldwide deployable ground systems. Deployable ground systems 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. These efforts lead into the major effort beginning in FY07 to procure systems for a modernized and interoperable multimission satellite operations center.					
NATIONAL SECURITY EMERGENCY PREPAREDNESS					
43. SITE R ADP SUPPORT: FY06 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. 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.					
HQ PACIFIC AIR FORCES					
44. INTELLIGENCE ACTIVITIES: No FY06 funding requested.					
		<b>P-1 ITEM NO</b> 48			<b>PAGE NO:</b> 82
					Page 12 of 12

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGY					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GENERAL INFORMATION TECHNOLOGIES									
11 WG			{\$23,604}		{\$40,781}		{\$46,620}		{\$50,136}
HQS IT INVESTMENT	A		\$5,119		\$9,600		\$7,285		\$6,747
HQS MAINFRAME SYS SPT	A		\$2,516		\$1,054		\$1,207		\$1,472
DISASTER RECOVER PROGRAM	A		\$15,969		\$3,109		\$2,350		\$4,355
JOINT INTERFACE CONTROL OFFICER SUPT SYS	A				\$10,179		\$16,056		\$10,150
OBJECTIVE GATEWAYS/JOINT RANGE EXTENSION	A				\$7,070		\$7,943		\$15,020
TACTICAL DATA LINK (TDL) FIELD INTEGRATION&OP SUPT PROGRAM	A				\$6,315		\$8,447		\$4,927
AF PARTICIPATING TEST UNIT (AFPTU)	A				\$1,241				\$2,000
AF HISTORICAL RESEARCH AGENCY	A				\$323		\$326		\$331
BUSINESS TRANSFORMATION INVESTMENT PROGRAM	A				\$1,890				
DISTRIBUTED TRAINING AND EXERCISES	A						\$805		\$1,222
PERSONNEL SERVICE DELIVERY (PSD)	A						\$2,201		\$3,912
		<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 83		Page 1 of 6			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ACC			{\$2,884}		{\$2,927}		{\$3,498}		{\$3,107}
BASE OPERATIONS	A		\$2,884		\$2,927		\$2,864		\$2,448
TAC AIR FORCE	A						\$634		\$659
AETC			{\$6,739}		{\$7,763}		{\$7,111}		{\$7,099}
TECHNICAL TRAINING MANAGEMENT SYSTEM	A		\$480		\$460		\$626		\$232
AFIT EARS	A		\$647		\$712		\$477		\$663
EDUCATION AND TRAINING TECH APPLICATIONS PRGM	A		\$1,767		\$1,933		\$1,843		\$1,900
AU	A		\$1,146		\$1,255		\$1,222		\$1,266
AFRISS	A		\$2,622		\$3,090		\$2,943		\$3,038
PROFESSIONAL MILITARY EDUCATION	A		\$77		\$313				
AFCA			{\$2,280}						
KEESLER COMPUTER NETWORK TRAINING	A		\$2,280						
AF MANPOWER & INNOVATION AGENCY (AFMIA)					{\$828}				

	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 84		Page 2 of 6
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGY					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MANPOWER DATA SYSTEMS	A				\$828				
AFMC			{\$19,120}		{\$28,797}		{\$28,659}		{\$31,219}
CETADS	A		\$200		\$275		\$250		\$250
NETWORK SERVICES	A		\$309		\$250		\$289		\$250
WSMIS	A		\$409		\$374		\$7,781		\$10,260
AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) POINT OF MAINTENANCE (POMX)	A		\$4,697		\$3,524		\$3,047		\$3,153
EAGLE VISION	A		\$4,027		\$6,214		\$6,136		\$5,344
EAGLE SCOUT	A				\$1,500				
INTEGRATED BROADCAST SYSTEM	A		\$7,178		\$10,760		\$11,156		\$11,962
SCIENCE & ENG LAB DATA INTEGRATION	A		\$2,300		\$4,900				
ADR - AERONAUTICAL SYSTEM CENTER	A				\$1,000				
AFOSI			{\$2,386}		{\$2,818}		{\$2,580}		{\$2,720}
AFOSI COMPUTER NETWORK	A		\$2,129		\$2,366		\$2,312		\$2,443
		<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 85				Page 3 of 6	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
DEFENSE CYBER CRIME CENTER	A		\$257		\$452		\$268		\$277
AFPC			{\$12,903}		{\$10,610}		{\$13,525}		{\$13,178}
PERSONNEL DATA SYSTEM	A		\$5,416		\$2,360		\$3,026		\$3,040
REGIONALIZATION OF CIVILIAN PERSONNEL SPT	A		\$7,231		\$7,883		\$10,499		\$10,138
VIRTUAL MILITARY PERSONNEL FLIGHT	A		\$256		\$367				
AIA			{\$825}		{\$3,121}		{\$2,084}		{\$2,016}
OFFENSIVE INFORMATION WARFARE SUPPORT	A		\$825		\$3,121		\$2,084		\$2,016
USAFA			{\$2,708}		{\$2,858}		{\$2,941}		{\$3,045}
USAFA COMPUTER SPT	A		\$2,708		\$2,858		\$2,941		\$3,045
USAFE			{\$799}		{\$1,105}		{\$1,419}		{\$1,458}
INTELLIGENCE ADPE	A		\$549		\$562		\$865		\$894
WPC	A		\$250		\$543		\$554		\$564
US NORTHERN COMMAND			{\$3,518}		{\$3,854}		{\$1,762}		

	<b>P-1 ITEM NO</b> 48		<b>PAGE NO:</b> 86		Page 4 of 6
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGY					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
USNORTHCOM ARCHITECTURE & INTEGRATION	A		\$3,518		\$3,854		\$1,762		
USSTRATCOM			{\$791}		{\$902}		{\$338}		{\$490}
COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE	A		\$791		\$902		\$338		\$490
AIR FORCE SAFETY CENTER			{\$96}		{\$96}				
AUTOMATED SAFETY SYSTEMS	A		\$96		\$96				
AIR FORCE SPACE COMMAND/SPACE & MISSILE CENTER			{\$229}		{\$233}		{\$239}		{\$5,633}
RSC/CERES UPGRADES	A		\$229		\$233		\$239		\$5,633
NATIONAL SECURITY EMERGENCY PREPAREDNESS			{\$221}		{\$266}		{\$221}		{\$297}
SITE R ADP SUPPORT	A		\$221		\$266		\$221		\$297
PACAF			{\$627}		{\$668}				
INTELLIGENCE ACTIVITIES	A		\$627		\$668				
<b>TOTALS:</b>			\$79,730		\$107,627		\$110,997		\$120,398
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 48			<b>PAGE NO:</b> 87			Page 5 of 6	

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>							<b>DATE:</b> FEBRUARY 2005				
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGY							
<b>PROCUREMENT ITEMS</b>	<b>ID CODE</b>	<b>FY2004</b>		<b>FY2005</b>		<b>FY2006</b>		<b>FY2007</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>		
Cost information is in thousands of dollars.											
		<b>P-1 ITEM NO</b> 48				<b>PAGE NO:</b> 88		Page 6 of 6			

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$27,283	\$16,168	\$11,891	\$15,259	\$15,320	\$15,649	\$16,023	\$16,253	
<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, 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>GCCS-AF MODERNIZATION: FY06 funds field GCCS-AF systems hardware, government-off-the-shelf, and COTS software at MAJCOM, 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. It also modernizes 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,</p>									
	<b>P-1 ITEM NO</b> 49		<b>PAGE NO:</b> 89		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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> system guards, cryptological systems, end user equipment for multiple new sites, and support 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 fielding of the Joint Command and Control (JC2) System, and will allow for the continued integration of evolving C2 capabilities into the AF's operational framework. These funds also provide technical refreshment hardware to support the warfighters fielded system and procure software licenses.					
	<b>P-1 ITEM NO</b> 49		<b>PAGE NO:</b> 90		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
GCCS-AF MODERNIZATION				{\$27,283}			{\$16,168}			{\$11,891}			{\$15,259}	
HARDWARE	A			\$25,783			\$14,668			\$10,391			\$13,759	
SOFTWARE LICENSES				\$1,500			\$1,500			\$1,500			\$1,500	
TOTALS:				\$27,283			\$16,168			\$11,891			\$15,259	
<p><b>Remarks:</b> Total Cost information is in thousands of dollars.</p>														
				<b>P-1 ITEM NO</b> 49					<b>PAGE NO:</b> 91					

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM						
ITEM / 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)										
FY2004(2)			AFMC/ESC	MIPR/IDIQ	GSA/GSA/KANSAS CITY, MO	Dec-03	Jan-04			
FY2005(2)			AFMC/ESC	MIPR/IDIQ	GSA/DISA/DITCO/SCOTT AFB, IL	Dec-04	Jan-05			
FY2006(2)			AFMC/ESC	MIPR/IDIQ	GSA/DISA/DITCO/SCOTT AFB, IL	Dec-05	Jan-06	Yes		
FY2007(2)			AFMC/ESC	MIPR/IDIQ	GSA/DISA/DITCO/SCOTT AFB, IL	Dec-06	Jan-07	Yes		
<p><b>Remarks:</b></p> <p>(1) Quantity and unit costs vary due to different types/configurations of equipment being procured.</p> <p>(2) Multiple GSA contracts utilized with companies such as World Wide Technology, St Louis, MO. Award/delivery dates reflect date of first award and delivery.</p>										
			<b>P-1 ITEM NO</b> 49			<b>PAGE NO:</b> 92				Page 1 of 1

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$9,178	\$8,947	\$9,488	\$10,056	\$10,292	\$10,545	\$10,820	\$10,978	
<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 73, AMC has a portion of its base communications infrastructure funding in P-1 line 50. AMC's base communications infrastructure contained herein is AMC unique, directly supporting the global mobility mission.</p> <p style="margin-left: 40px;">a. OBJECTIVE WING COMMAND POST (OWCP): No FY06 funding requested.</p> <p style="margin-left: 40px;">b. LOCAL AREA NETWORK (LAN): FY06 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, OWCP, 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>									
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 93		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL			
<b>Description (continued):</b> <p>c. ADVANCED COMPUTER FLIGHT PLAN (ACFP): The ACFP is a user-friendly, menu-driven, computer-generated flight planning C2 system, used to generate wind optimized flight plans for all MAJCOMs. FY06 funding provides increased 3-dimensional optimization capabilities and upgrades two database servers to accommodate expanded data needed for accurate flight plan calculations.</p> <p>d. 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, en route, and deployed locations where air mobility operational support is nonexistent or insufficient) and Mission Support Team C2 operations. Resources directly support C2 of, and In-Transit Visibility over, deployed and en-route personnel, aircraft, and cargo. FY06 funds will purchase two Deployable Rapidly Assembled Shelters, two Mobile Air Reporting Communications (transportable communication and information processing systems that support mission planning, scheduling, and tracking) Systems, and two Inter-Theater Communications units, providing rapidly deployable communications support capability in austere locations.</p> <p>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 is comprised of combat controllers, pararescuemen, and combat weathermen. ST operators input intelligence, weather, and assault zone assessments into AFSOC's C2 network and receive/relay mission taskings. The C2 program enables personnel to perform special reconnaissance, time critical targeting, survey and assessment, and combat weather forecasting. The C2 systems are necessary for operators to perform austere airfield control, drop zone control, terminal attack control, and personnel and equipment recovery. Funds procure multiple devices to support ST missions such as machine to machine targeting; self-healing communications networking devices to link C2 nodes, ST operators, and aircraft into one network; and multi-band multi-mode beacons, which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations.</p>					
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 94		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. GLOBAL C2 ARCHITECTURE									
A. OWCP	A		\$400						
B. LAN	A		\$3,607		\$3,776		\$4,001		\$4,599
C. ACFP	A		\$700		\$700		\$750		\$750
D. DSATCOM	A		\$4,200		\$4,200		\$4,500		\$4,400
2. AFSOC TAC C2 PROGRAM	A		\$271		\$271		\$237		\$307
<b>TOTALS:</b>			\$9,178		\$8,947		\$9,488		\$10,056

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 95	Page 1 of 1
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL						
ITEM / 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)										
OWCP										
FY2004(2)			HQ AMC	OPT/FFP	SIEMENS ROLM/VIENNA, VA	Feb-04	Mar-04			
LAN										
FY2004(3)			HQ AMC	OPT/FP	MULTIPLE	Dec-03	Feb-04			
FY2005(3)			HQ AMC	OPT/FP	MULTIPLE	Dec-04	Feb-05			
FY2006(3)			HQ AMC	OPT/FP	MULTIPLE	Dec-05	Feb-06	Yes		
FY2007			HQ AMC	C/FP	UNKNOWN	Mar-07	Sep-07	Yes		
ACFP										
FY2004(4)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ST LOUIS, MO	Jul-04	Oct-04			
FY2005(4)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ST LOUIS, MO	Jan-05	Apr-05			
FY2006(4)			HQ AMC	OPT/FFP	HEWLETT PACKARD/ST LOUIS, MO	Jan-06	Apr-06	Yes		
FY2007			HQ AMC	C/FFP	UNKNOWN	Mar-07	Sep-07	Yes		

	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 96	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL						
ITEM / 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	
DSATCOM										
FY2004			HQ AMC	MIPR/FFP	NAVY - BRITISH AEROSPACE SYSTEMS/UK	Dec-03	Aug-04			
FY2005			HQ AMC	MIPR/FFP	NAVY - BRITISH AEROSPACE SYSTEMS/UK	Dec-04	Aug-05			
FY2006			HQ AMC	MIPR/FFP	NAVY - BRITISH AEROSPACE SYSTEMS/UK	Dec-05	Aug-06	Yes		
FY2007			HQ AMC	MIPR/FFP	NAVY - BRITISH AEROSPACE SYSTEMS/UK	Dec-06	Aug-07	Yes		
AFSOC TAC C2 PROGRAM										
FY2004			HQ AFSOC	MIPR/FFP	MARINES/SIEMENS ROLM/VIENNA, VA	Jan-04	Aug-04			
FY2005			HQ AFSOC	MIPR/FFP	MARINES/SIEMENS ROLM/VIENNA, VA	Jan-05	Aug-05			
FY2006			HQ AFSOC	MIPR/FFP	MARINES/SIEMENS ROLM/VIENNA, VA	Jan-06	Aug-06	Yes		
FY2007			HQ AFSOC	MIPR/FFP	MARINES/UNKNOWN	Jan-07	Aug-07	Yes		
<b>Remarks:</b>  (1) Quantities and unit costs vary due to different site configurations/computer items being procured. (2) Option to prior year contract (nine year option) awarded Feb 96 to Siemens Rolm, Vienna, VA.										
			<b>P-1 ITEM NO</b> 50			<b>PAGE NO:</b> 97	Page 2 of 3			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL						
ITEM / 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>(3) 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>(4) Contract awarded Oct 02 (nine option years) to Hewlett Packard, St Louis, MO.</p>										
<b>P-1 ITEM NO</b> 50			<b>PAGE NO:</b> 98			Page 3 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$42,517	\$94,840	\$35,910	\$42,192	\$73,715	\$57,164	\$54,854	\$56,046	
<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 eight 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, and unmanned ground/airborne surveillance and detection systems. The modern equipment replaces older generation intrusion detection systems at fixed sites, and provides relocatable 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, training, and program office support. This program also directly supports the Homeland Defense elements of antiterrorism, counter-terrorism, critical infrastructure protection, intelligence, and consequence management. Other physical security delay/denial equipment funded in this program includes remotely operated mobile sensor systems, including the associated unmanned air and/or ground vehicle platforms; directed energy weapons for force protection applications; nonlethal 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 protect them. 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 and detection systems. An on-going Pre-Planned Product Improvement Program provides systems capability improvements.</p>									
	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 99			Page 1 of 4			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b>  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. FY06 funding procures and installs TASS equipment.  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. FY06 funding procures and installs equipment in support of these antiterrorism efforts.  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 have 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. FY06 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, FY06 funds will 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.  d) <b>REPLACE SECURITY FORCE/EOD EQUIPMENT:</b> No FY06 funding is requested.  2. <b>STRATEGIC SECURITY SYSTEMS:</b> Strategic Security Systems acquire, test, and install exterior and interior intrusion detection, assessment, and					
	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 100		Page 2 of 4

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> reporting systems for Air Force (AF), Air National Guard and AF 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, Kirkland Underground Munitions Maintenance and Storage Complex, Kirkland AFB, NM, Minot AFB, ND, and 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. FY06 will complete the installation and integration of the perimeter and exterior/interior security system at Barksdale AFB, LA. FY06 will also provide security upgrade planning at various other WSAs and priority AF locations.  b) FIXED-SITE SECURITY: 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. The FY05 Appropriation Report 108-622, dated 20 Jul 04, included a Congressional add of \$1M for the Force Protection Near Real Time Surveillance System and \$500k for the Digital Network Centric Remotely Operated Weapons System. FY06 will provide for enhanced security equipment for the phased security system at Barksdale AFB, LA. Because of the complexity, size, weather inhibitors, and infrastructure time-lines, these upgrades are completed in phases. Phases include exterior security upgrades, interior upgrades and annunciators, and technology improvements over two or more years. FY06 will also provide technology upgrades to existing entry control systems at several locations. 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 reduce security forces manpower gaps. FY06 and subsequent year funding provide planning for fixed site security installations for other AF bases.					
	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 101		Page 3 of 4

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b>  c) MINUTEMAN SQUADRON SECURITY: FY06 funds procure intrusion detection sensors, alarm annunciators, CCTV cameras, and program office support to maintain and replace critical Minuteman warhead storage security command and control subsystems that can no longer be supported.  3. OTHER SECURITY SYSTEMS: 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.  a) VISUAL DETECTION AND ASSESSMENT SYSTEM (VDAS): 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.  b) JOINT SERVICE INTERIOR INTRUSION DETECTION SYSTEMS (JSIIDS): 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. FY06 funding will procure and install JSIIDS at the remaining locations (United Kingdom--Royal Air Force (RAF) Fairford, RAF Molesworth/Alconbury, RAF Mildenhall, RAF Lakenheath; Turkey--Incirlik AB; and Germany--Ramstein, Vogelweh, and Sembach).					
	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 102		Page 4 of 4

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TACTICAL SECURITY SYSTEMS			{\$37,609}		{\$15,551}		{\$8,769}		{\$7,371}
AIR BASE GROUND DEFENSE	A		\$2,665		\$12,811		\$3,288		\$3,397
ANTI-TERRORISM	A		\$902		\$928		\$3,156		\$1,976
FLIGHTLINE SECURITY	A		\$17,449		\$1,812		\$2,325		\$1,998
REPLACE SECURITY FORCE/EOD EQUIPMENT	A		\$16,593						
STRATEGIC SECURITY SYSTEMS			{\$2,835}		{\$77,220}		{\$24,854}		{\$32,225}
AIR LAUNCH CRUISE MISSILE	A		\$1,305		\$1,343		\$1,383		\$1,423
FIXED-SITE SECURITY	A		\$1,000		\$75,329		\$22,882		\$30,240
MINUTEMAN SQUADRON SECURITY	A		\$530		\$548		\$589		\$562
OTHER SECURITY SYSTEMS			{\$2,073}		{\$2,069}		{\$2,287}		{\$2,596}
VISUAL DETECTION AND ASSESSMENT SYSTEM	A		\$1,803		\$1,765		\$1,992		\$2,259

	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 103		Page 1 of 2
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# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS	A		\$270		\$304		\$295		\$337
<b>TOTALS:</b>			\$42,517		\$94,840		\$35,910		\$42,192

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 104	Page 2 of 2
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM						
ITEM / 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										
FY2004(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-04	Feb-04			
FY2005(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-07	Mar-07	Yes		
ANTI-TERRORISM										
FY2004(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-04	Feb-04			
FY2005(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-07	Mar-07	Yes		
FLIGHTLINE SECURITY										
FY2004(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-04	Mar-04			

	<b>P-1 ITEM NO</b> 51		<b>PAGE NO:</b> 105	Page 1 of 5
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM						
ITEM / 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	
FY2005(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-06	Mar-07	Yes		
FY2007(1-6)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-07	Mar-07	Yes		
REPLACE SECURITY FORCE/EOD EQUIPMENT										
FY2004(4-5)			AFMC/ESC	DO/FFP	MULTIPLE	Feb-04	Mar-04			
STRATEGIC SECURITY SYSTEMS										
AIR LAUNCH CRUISE MISSILE										
FY2004(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Dec-03	Mar-04			
FY2005(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-07	Mar-07	Yes		
FIXED-SITE SECURITY										
FY2004(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Dec-03	Mar-04			

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM						
ITEM / 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	
FY2005(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-07	Mar-07	Yes		
MINUTEMAN SQUADRON SECURITY										
FY2004(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Dec-03	Mar-04			
FY2005(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Feb-05	Mar-05			
FY2006(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-06	Mar-07	Yes		
FY2007(1-6)			AFMC/ESC	DO/CPAF	MULTIPLE	Jan-07	Mar-07	Yes		
OTHER SECURITY SYSTEMS(1-2)										
VISUAL DETECTION AND ASSESSMENT SYSTEM										
FY2004(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Nov-03	Mar-04			
FY2005(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-05	Apr-05			
		<b>P-1 ITEM NO</b> 51				<b>PAGE NO:</b> 107		Page 3 of 5		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM						
ITEM / 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(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-07	Yes		
JOINT SERVICE INTERIOR INTRUSION DETECTION SYS										
FY2004(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Nov-03	Mar-04			
FY2005(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Feb-05	Mar-05			
FY2006(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-06	Mar-06	Yes		
FY2007(1-2,7)			HQ USAFE	OTH/OTH	MULTIPLE	Jan-07	Mar-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) Contract award date listed is the first contract award date.</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 to include: Delivery Order/FFP, CPAF, etc contracts. 25 Aug 03 &amp; 2 Sep 03 AFMC/ESC awarded four (4) five-year delivery contracts to 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) GSA/Labor Hour/Delivery Order to Titan System Corporation, Billerica, MA; Business Technologies and Solutions (BTAS), Beaver Creek, OH; ACS</p>										
			<b>P-1 ITEM NO</b> 51			<b>PAGE NO:</b> 108				
						Page 4 of 5				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM						
ITEM / 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>Defense, Inc., Burlington, MA; and MCR, Billerica, MA.</p> <p>(6) Other typical contractors include BAE, Eglin AFB, FL; Diebold, Northridge, CA; Department of Energy/Sandia National Laboratories, Albuquerque, NM. Award/delivery dates represent the date of first award/delivery.</p> <p>(7) Task Order/Labor Hour contracts to Kylmar, LTD, Andover, UK. Time &amp; Material contracts to Department of Energy/Sandia National Laboratories, Albuquerque, NM &amp; 46TW. Delivery order contract awarded to Vindicator Technologies, Austin, TX.</p>										
<b>P-1 ITEM NO</b> 51			<b>PAGE NO:</b> 109			Page 5 of 5				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$83,121	\$31,789	\$36,096	\$36,582	\$43,110	\$43,861	\$44,752	\$45,512
<p><b>Description:</b></p> <p>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 services' ranges, the encryption of range/aircraft data links, and associated communication devices.</p> <p>1. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES: FY06 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. FY06 procures the production and fielding of the P5CTS.</p> <p>2. ACTS RANGE IMPROVEMENTS:</p> <p>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. FY06 procures and fields these systems.</p>								
	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 110			Page 1 of 5		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES				
<b>Description (continued):</b>						
3. ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES:						
a. JOINT THREAT EMITTER (JTE): FY06 procures and fields these high-fidelity training aids for the Nellis, NV, Poinsett, SC, and Alpena, MI, Training Ranges.						
b. MINIATURE MULTIPLE UNMANNED THREAT EMITTER SYS-M3P: FY06 modernizes the Miniature Multiple Unmanned Threat Emitter System.						
c. TURBO TRAINS: FY06 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. MI ANG THREAT EMITTER: No FY06 funding is requested.						
e. 11TH AF G-BAND PEDESTALS UPGRADE: No FY06 funding is requested.						
f. UNMANNED THREAT EMITTER (UMTE): No FY06 funding is requested.						
g. UMTE MODERNIZATION: The UMTE received a \$2.5M Congressional add in the FY05 Appropriations Conference Report 108-622, dated 20 July 2004. No FY06 funding requested.						
h. JOINT THREAT EMITTER AIR NATIONAL GUARD ALPENA: The JTE program received a \$7.5M Congressional add in the FY05 Appropriations Conference Report 108-622, dated 20 July 2004 for the Air National Guard Alpena Training Range. No FY06 funding requested.						
		<b>P-1 ITEM NO</b> 52			<b>PAGE NO:</b> 111	Page 2 of 5

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> <p>i. JOINT THREAT EMITTER POINSETT: The JTE program received a \$2.5M Congressional add in the FY05 Appropriations Conference Report 108-622, dated 20 July 2004 for the procurement of a Joint Threat Emitter for Poinsett Range. No FY06 funding requested.</p> <p>j. NELLIS POD UPGRADE GROUND SYSTEMS: A \$1M Congressional add was received in the FY05 Appropriations Conference Report 108-622, dated 20 July 2004 for Nellis Test and Training Range (NTTR). No FY06 funding requested.</p> <p>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:</p> <p>a. BATTLEFIELD VOICE SIMULATION SYSTEM (BVSS): FY06 funds BVSS for communications intelligence training. Upgraded Navy designed units will be integrated with a signal generator/recorder software and firmware system to provide scenario control and selection of complex modulation. BVSS will also develop voice via the text to speech engine embedded in it's software and will provide external audio modulation to the signal generator. This audio modulation will provide seven different male/female voice languages, as well as three (3) speeds of Morse Code. The system is capable of real-time playback based on the running scenario and can reproduce any recorded Radio Frequency (RF) signal. Multiple and complex signals can be simultaneously generated between 2 MHz and 2.4 MHz.</p> <p>b. SIGNALS INTELLIGENCE/INFORMATION OPERATIONS COLLECTION VAN: No FY06 funds are requested. Signals Intelligence/Information Operations (SI/IO) collection vans support signals intelligence training. These vans will equip Red Team collection units to provide capability to monitor IO activities and to assess the effectiveness of SI/IO activities.</p> <p>c. MULTISPECTRAL THREAT EMITTER SYSTEM (MTES) TARGETS: FY06 funds procure MTES; a Navy-developed system that provides instrumented targets for realistic presentations in other than the visual spectrum. The MTES is a full-size visual replica with realistic infrared and radar cross section signature control. The MTES is capable of stimulating multiple sensors in the joint environment. The system is mobile, incorporates</p>					
	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 112		Page 3 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> aircrew feedback and debrief functions, and provides day/night training.  d. OPPOSITION FORCE (OPFOR) COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS: FY06 funds procure OPFOR C3 Systems supporting tactical and strategic training. These systems support event control, data collection and after action review, and exploitable and threat faithful networks supporting tactical and strategic training.  e. JOINT THREAT EMITTER: FY06 funds procure Joint Threat Emitter (JTE) equipment that represents a variety of Opposing Forces OPFOR radar signals. The JTE is an Air Force program that provides emulated threat generation of actual RF Surface-to-Air Missile (SAM) multiple threat presentations from a single unit. It is reprogrammable for emerging threats, provides realistic aircraft tracking simulation, video, and electronic countermeasures (ECM) feedback. It provides Advanced Display and Debriefing System debrief function. The emitter is sustainable and mobile and can be rapidly deployed or relocated. Spiral block upgrades are planned to meet future training requirements.  f. EXPENDABLE CONCEALMENT, COUNTERMEASURES, AND DECOY SYSTEMS: FY06 funds procure Expendable Concealment, Countermeasure, and Decoy Systems to enhance target recognition training. Decoys, camouflage netting, smoke, and other obscurant systems are included in this program.  g. MAN-PORTABLE AIR DEFENSE (MANPAD) INTEGRATED THREAT SIMULATOR/STIMULATOR (MITSS) SURFACE-TO-AIR (SAM) SIMULATOR SYSTEM: No FY06 funding is requested.  h. URBAN TARGET COMPLEX: FY06 funding procures ground-based scoring and feedback to include an urban target complex for use during joint Red Flag exercise events.  i. LASER SPOT SCORING SYSTEM: FY06 funding procures one Laser Spot Scoring System.					
	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 113		Page 4 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b>					
j. LASER EVALUATION SCORING SYSTEM: FY06 funding procures one Laser Evaluation Scoring System.					
k. CONNECTIVITY FOR JOINT COMMON GROUND STATION (CGS) AND JOINT-SURVEILLANCE and TARGET ATTACK RADAR SYSTEM (J-STARS): FY06 funds procure connectivity for joint CGS (a premiere tactical ground station providing real-time, multisensor Command, Control, Communications, Computers, and Intelligence [C4ISR] capabilities) and J-STARS (a long-range, air-to-ground surveillance aircraft designed to locate, classify and track ground targets in all weather conditions). This effort provides satellite phones for use by "opposing forces" in training.					
l. IMPROVISED EXPLOSIVE DEVICE (IED) SIMULATOR: FY06 funds procure 200 IED simulators. These safe/low cost IED simulators provide realistic audible and visual signature (flash, noise, smoke), but can be safely exploded in proximity of ground personnel and still be heard and seen from a moving vehicle. These devices can be detonated via wire or radio frequency. They will be used during training to simulate attacks.					
m. OPPOSING FORCES SIMULATOR SYSTEMS (OPFOR): No FY06 funding is requested.					
5. RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION: No FY06 funding requested.					
	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 114		Page 5 of 5

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES			{\$1,000}		{\$3,013}		{\$3,507}		{\$3,682}
P5 COMBAT TRAINING SYSTEM AND LEGACY SYSTEM UPGRADES	A		\$1,000		\$3,013		\$3,507		\$3,682
AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS			{\$4,100}		{\$3,534}		{\$3,465}		{\$3,466}
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)	A		\$4,100		\$3,534		\$3,465		\$3,466
ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES			{\$42,091}		{\$25,242}		{\$8,049}		{\$7,626}
JOINT THREAT EMITTER	A		\$14,509		\$9,058		\$5,411		\$5,030
MINIATURE MULTIPLE UNMANNED THREAT EMITTER SYS-M3P	A		\$6,383		\$1,844		\$1,798		\$1,756
TURBO TRAINS	A		\$199		\$840		\$840		\$840
MI ANG THREAT EMITTER	A		\$5,000						
11TH AF G-BAND PEDESTALS UPGRADE	A		\$9,000						
UNMANNED THREAT EMITTER (UMTE)	A		\$7,000						
UMTE MODERNIZATION	A				\$2,500				

	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 115	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
JOINT THREAT EMITTER AIR NATIONAL GUARD ALPENA	A				\$7,500				
JOINT THREAT EMITTER POINSETT RANGE	A				\$2,500				
NELLIS POD UPGRADE GROUND SYSTEMS	A				\$1,000				
JOINT NATIONAL TRAINING CAPABILITY (JNTC)			{ \$2,430 }				{ \$21,075 }		{ \$21,808 }
BATTLEFIELD VOICE SIMULATION SYSTEM (BVSS)	A						\$1,800		\$1,800
SIGNAL INTELLIGENCE/INFORMATION OPERATIONS COLLECTION VANS	A								\$1,100
MULTISPECTRAL THREAT EMITTER SYSTEM (MTES) TARGETS	A						\$2,400		\$2,200
OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS	A						\$1,200		\$1,301
JOINT THREAT EMITTER (JTE)	A						\$12,138		\$13,407
EXPENDABLE CONCEALMENT, COUNTERMEASURES AND DECOY SYSTEMS	A						\$401		\$400
MANPAD MITSS SAMS	A								\$1,100
URBAN TARGET COMPLEX	A						\$1,336		\$500

	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 116		Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
LASER SPOT SCORING SYSTEM (LSSS)	A						\$800		
LASER EVALUATION SCORING SYSTEM (LESS)	A						\$300		
CONNECTIVITY OF JOINT COMMON GROUND STATION AND J-STARS	A						\$300		
IMPROVISED EXPLOSIVE DEVICE SIMULATOR	A						\$400		
OPPOSING FORCES SIMULATOR SYSTEMS	A		\$2,430						
RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION			{\$33,500}						
11TH AF JAWSS SCORING SYSTEM PROCESSOR	A		\$7,500						
611TH RED AIR DEFENSE COMMAND AND CONTROL	A		\$4,000						
MT. FAIRPLAY RADIOS	A		\$2,000						
611TH GAKONA RADAR	A		\$20,000						
TOTALS:			\$83,121		\$31,789		\$36,096		\$36,582
<b>Remarks:</b> Cost information is in thousands of dollars.									
		<b>P-1 ITEM NO</b> 52				<b>PAGE NO:</b> 117		Page 3 of 3	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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 COMBAT TRAINING SYSTEMS (ACTS) UPGRADES										
P5 COMBAT TRAINING SYSTEM AND LEGACY SYSTEM UPGRADES										
FY2004(5)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/SAN DIEGO, CA	Jun-04	Mar-05			
FY2005(5)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/SAN DIEGO, CA	Jun-05	Nov-05	Yes		
FY2006(5)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/SAN DIEGO, CA	Jun-06	Nov-06	No	Jun-05	
FY2007(5)			AFMC/AAC	OPT/FFP	CUBIC DEF SYS/SAN DIEGO, CA	Jun-07	Nov-07	No	Apr-06	
AIR COMBAT TRAINING SYSTEMS (ACTS) RANGE IMPROVEMENTS										
JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)										
FY2004(1)			HQ ACC	MIPR/OTH	NAVY/NAVY/MULTIPLE (1)	Mar-04	Nov-04			
FY2005(1)			HQ ACC	MIPR/OTH	NAVY/NAVY/MULTIPLE (1)	Mar-05	Nov-05	Yes		
FY2006(1)			HQ ACC	MIPR/OTH	NAVY/NAVY/MULTIPLE (1)	Mar-06	Nov-06	Yes		
FY2007(1)			HQ ACC	MIPR/OTH	NAVY/NAVY/MULTIPLE (1)	Mar-07	Nov-07	Yes		
		<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 118		Page 1 of 11				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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	
ELECTRONIC COMBAT THREAT SYSTEMS UPGRADES(3)										
JOINT THREAT EMITTER										
FY2004(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-04	Dec-05			
FY2005(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Aug-05	Apr-06	Yes		
FY2006(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Feb-06	Aug-07	No	Jul-05	
FY2007(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Feb-07	Aug-08	No	Jun-06	
MINIATURE MULTIPLE UNMANNED THREAT EMITTER SYS-M3P										
FY2004(6)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/MELBOURNE, FL	Apr-04	May-04			
FY2005(6)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/MELBOURNE, FL	Dec-04	Jan-06			
		<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 119		Page 2 of 11				

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/MELBOURNE, FL	Feb-06	Feb-07	Yes		
FY2007(6)			AFMC/OO-ALC	DO/FFP	HARRIS CORPORATION/MELBOURNE, FL	Feb-07	Jan-08	Yes		
TURBO TRAINS										
FY2004(7)			AFMC/OO-ALC	C/FFP	EW SYSTEMS/COLORADO SPRINGS, CO	Apr-04	Sep-04			
FY2005(7)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/COLORADO SPRINGS, CO	Apr-05	Nov-05	Yes		
FY2006(7)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/COLORADO SPRINGS, CO	Apr-06	Nov-06	Yes		
FY2007(7)			AFMC/OO-ALC	OPT/FFP	EW SYSTEMS/COLORADO SPRINGS, CO	Apr-07	Nov-07	Yes		
MI ANG THREAT EMITTER										
FY2004(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Apr-04	Dec-05			

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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	
11TH AF G-BAND PEDESTALS UPGRADE										
FY2004			AFMC/OO-ALC	C/FFP	DRS/BUFFALO, NY	Jul-04	Mar-06			
UNMANNED THREAT EMITTER (UMTE)										
FY2004			AFMC/OO-ALC	C/CPFF	DRS/BUFFALO, NY	Jul-04	Mar-06			
UMTE MODERNIZATION										
FY2005			AFMC/OO-ALC	C/CPFF	UNKNOWN	Apr-05	Apr-06	Yes		
JOINT THREAT EMITTER AIR NATIONAL GUARD ALPENA										
FY2005			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Aug-05	Apr-06	Yes		

	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 121	Page 4 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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	
JOINT THREAT EMITTER POINSETT RANGE										
FY2005			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Aug-05	Apr-06	Yes		
NELLIS POD UPGRADE GROUND SYSTEMS										
FY2005			AFMC/AAC	C/FFP	UNKNOWN	Mar-05	Mar-06	Yes		
JOINT NATIONAL TRAINING CAPABILITY (JNTC)										
BATTLEFIELD VOICE SIMULATION SYSTEM (BVSS)										
FY2006			AFMC/ESC	MIPR/FFP	NAVY/NAVAIR/ATR/NAS PATUXENT RIVER, MD	Mar-06	Aug-06	Yes		
FY2007			AFMC/ESC	MIPR/FFP	NAVY/NAVAIR/ATR/NAS PATUXENT RIVER, MD	Mar-07	Nov-07	Yes		
SIGNAL INTELLIGENCE/INFORMATION OPERATIONS COLLECTION VANS										
		<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 122		Page 5 of 11				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007			AFMC/ESC	C/FFP	UNKNOWN	Nov-06	Aug-07	No	May-06	
MULTISPECTRAL THREAT EMITTER SYSTEM (MTES) TARGETS										
FY2006			AFMC/OO-ALC	DO/FFP	DRS/BUFFALO, NY	Mar-06	Mar-07	No	Sep-05	
FY2007			AFMC/OO-ALC	DO/FFP	DRS/BUFFALO, NY	Mar-07	Mar-08	No	Aug-06	
OPFOR COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS										
FY2006			AFMC/ESC	C/FFP	UNKNOWN	Mar-06	Mar-07	Yes		
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Mar-07	Mar-08	Yes		
JOINT THREAT EMITTER (JTE)										
FY2006(2)			AFMC/OC-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Feb-06	Aug-07	No	Jun-05	
		<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 123		Page 6 of 11				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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(2)			AFMC/OO-ALC	OPT/FFP	MODERN TECHNOLOGIES CORPORATION/DAYTON, OH	Aug-07	Aug-08	No	Jun-06	
EXPENDABLE CONCEALMENT, COUNTERMEASURES AND DECOY SYSTEMS										
FY2006			AFMC/OO-ALC	MIPR/FFP	MULTIPLE/WHITE SANDS, NM	Dec-05	Mar-06	Yes		
FY2007			AFMC/OO-ALC	MIPR/FFP	MULTIPLE/WHITE SANDS, NM	Dec-06	Mar-07	Yes		
MANPAD MITSS SAMS										
FY2007			AFMC/ESC	C/CPIF	UNKNOWN	Feb-07	Feb-07	Yes		
URBAN TARGET COMPLEX										
FY2006			AFMC/OO-ALC	C/FFP	UNKNOWN	Mar-06	Mar-07	No	Sep-05	
FY2007			AFMC/OO-ALC	OPT/FFP	UNKNOWN	Mar-07	Mar-08	No	Sep-06	

	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 124	Page 7 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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	
LASER SPOT SCORING SYSTEM (LSSS)										
FY2006			AFMC/OO-ALC	C/FFP	UNKNOWN	Mar-06	Feb-07	Yes		
LASER EVALUATION SCORING SYSTEM (LESS)										
FY2006			AFMC/OO-ALC	C/FFP	UNKNOWN	Mar-06	Feb-07	Yes		
CONNECTIVITY OF JOINT COMMON GROUND STATION AND J-STARS										
FY2006			AFMC/OO-ALC	C/CPFF	UNKNOWN	Mar-06	Sep-06	Yes		
IMPROVISED EXPLOSIVE DEVICE SIMULATOR										
FY2006			AFMC/OO-ALC	MIPR/CPFF	ARMY/USA PEOSTRI/ORLANDO, FL	Mar-06	Mar-07	Yes		

	<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 125	Page 8 of 11
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES						
ITEM / 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	
OPPOSING FORCES SIMULATOR SYSTEMS										
FY2004(3)			HQ ACC	OTH/OTH	MULTIPLE	Feb-04	Feb-05			
RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION										
11TH AF JAWSS SCORING SYSTEM PROCESSOR										
FY2004(1)			HQ PACAF	MIPR/OPT/OTH	MULTIPLE	Mar-04	Nov-05			
611TH RED AIR DEFENSE COMMAND AND CONTROL										
FY2004(4)			HQ PACAF	OTH/OTH	MULTIPLE	May-04	Jun-04			
MT. FAIRPLAY RADIOS										
FY2004(4)			HQ PACAF	OTH/OTH	MULTIPLE	Mar-04	Aug-04			
		<b>P-1 ITEM NO</b> 52				<b>PAGE NO:</b> 126		Page 9 of 11		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES						
ITEM / 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	
611TH GAKONA RADAR										
FY2004			AFMC/ESC	C/FFP	LOCKHEED MARTIN/SYRACUSE, NY	May-04	Sep-06			
<p><b>Remarks:</b></p> <p>Quantity/unit costs vary because of different types/configurations of equipment being procured.</p> <p>(1) Joint Advanced Weapons Scoring System (JAWSS) procured by Naval Warfare Assessment Station, Corona, CA and Naval Air Warfare Center, Point Mugu, CA.</p> <p>(2) Basic JTE contract awarded 19 Aug 02 to Modern Technologies Corporation, Dayton, OH. JTE has four - two year options: basic two years plus four two year options - 10 years total.</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) 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>(5) The P5CTS basic contract (with 10 year option) was awarded to Cubic Defense Systems, San Diego, CA on 3 Jun 03. DRS Technologies, Buffalo, NY is</p>										
	<b>P-1 ITEM NO</b> 52			<b>PAGE NO:</b> 127				Page 10 of 11		

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES						
ITEM / 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	
a subcontractor. (6) Basic contract was awarded to Harris Corporation, Melbourne, FL on 28 Jul 1997. (7) The Turbo-Threat Reaction Analysis Indicator System (Turbo-TRAINS) basic contract (with 10 year option) awarded to E.W. Systems, Colorado Springs, CO, April 2002.										
	<b>P-1 ITEM NO</b> 52			<b>PAGE NO:</b> 128					Page 11 of 11	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$0	\$0	\$20,545	\$102,865	\$93,732	\$87,279	\$72,444	\$21,531
<p><b>Description:</b></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><b>GROUND ELEMENT MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN) SYSTEM (GEMS):</b> GEMS will replace 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 and 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, weather and missile warning operations.</p> <p><b>AIRCREW ALERTING SYSTEMS:</b> GEMS will replace the current Aircrew Alerting Communication Electromagnetic Pulse System/Electromagnetic Hardened Dispersal Communications (AACE/EHDC) for UHF Line-of-Sight (UHF LOS) intra-site Wing Command Post strategic C3 requirements. GEMS will also replace the current unsupportable aircrew alerting system with a more reliable, survivable EltroMagnetic Pulse (EMP) hardened capability for notifying aircrew personnel. FY06 funding provides UHF LOS, klaxons and voice/text pager aircrew alerting capability to maintain assured instantaneous connectivity at ground command posts to direct aircrew actions in support of nuclear execution forces.</p>								
	<b>P-1 ITEM NO</b> 53		<b>PAGE NO:</b> 129		Page 1 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK			
<b>Description (continued):</b>  COMMUNICATIONS DATA PROCESSING SYSTEM (CDPS): GEMS will replace both mobile Single Channel Anti-Jam Man Portable (SCAMP) terminals and Fixed Site SCAMP (FSS) terminals to provide EHF/AEHF survivable/protected inter-site communications for disseminating and receiving EAMs (highly structured, authenticated messages primarily used in the command and control of nuclear forces). GEMS implementation will start with fixed sites, low data rate EHF, and UHF LOS aircrew alerting. It then will support a combination of fixed and transportable site equipment according to system priority need. AEHF capability will be added toward the end of the procurement to take advantage of upgrades planned for other EHF terminals. FY06 funding provides the initial purchases of the CDPS and an improved aircrew alerting communications capability. The CDPS with EHF provide survivable, protected communications for assured connectivity from the President to nuclear forces.  EHF TRANSCEIVER: No FY06 production funding requested.  UHF TRANSCEIVER: No FY06 production funding requested.					
	<b>P-1 ITEM NO</b> 53		<b>PAGE NO:</b> 130		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		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														
AIRCREW ALERTING SYSTEMS	A									\$2,204				
COMMUNICATIONS DATA PROCESSING SYSTEM (CDPS)	A									\$17,754				\$65,466
EXTREMELY HIGH FREQUENCY (EHF) TRANSCEIVER	A													\$32,732
ULTRA HIGH FREQUENCY (UHF) TRANSCEIVER	A													\$4,402
ENGINEERING CHANGE ORDER/ENGINEERING CHANGE PROPOSAL (ECO/ECP)										\$587				\$265
TOTALS:										\$20,545				\$102,865
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
P-1 ITEM NO 53					PAGE NO: 131					Page 1 of 1				

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK						
ITEM / 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										
AIRCREW ALERTING SYSTEMS(1)										
FY2006			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Dec-05	Dec-06	No	Jun-05	
COMMUNICATIONS DATA PROCESSING SYSTEM (CDPS)(1)										
FY2006			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Dec-05	Dec-06	No	Jun-05	
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Dec-06	Dec-07	No	Oct-05	
EXTREMELY HIGH FREQUENCY (EHF) TRANSCEIVER(1)										
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Dec-06	Dec-07	No	Oct-05	
ULTRA HIGH FREQUENCY (UHF) TRANSCEIVER(1)										
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Dec-06	Dec-07	No	Oct-05	
<b>Remarks:</b>										
Unit costs vary because of different types/configurations of equipment being procured.										
	<b>P-1 ITEM NO</b> 53			<b>PAGE NO:</b> 132				Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK						
ITEM / 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) Base year 2006 with five year options; all contracts a part of GEMS program.</p>										
	<b>P-1 ITEM NO</b> 53			<b>PAGE NO:</b> 133					Page 2 of 2	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$9,222	\$11,767	\$4,517	\$4,655	\$4,891	\$5,241	\$4,946	\$5,019	
<p><b>Description:</b></p> <p>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 this vulnerability through Information Operations (IO). IO includes those actions taken to gain, exploit, defend, and attack information and information systems and includes two facets, information-in-warfare and information warfare (IW). IW consists of actions conducted to attack an adversary's information and information systems while defending one's own.</p> <p>Information warfare includes the integrated application of Electronic Warfare (EW), Psychological Operations (PSYOP), military deception, physical attack, computer network attack, counterintelligence, counterdeception, computer network defense, counterpropaganda, information assurance, and operations security (OPSEC). The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), 67th Information Operations Wing (67 IOW), 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 those organizations' IW and C2W missions. Elements of the program are addressed individually below.</p> <p>1. AF INFORMATION WARFARE CENTER (AFIWC) SUPPORT: AFIWC 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:</p> <p style="margin-left: 40px;">a. AUTOMATED DATA PROCESSING (ADP) UPGRADES: No FY06 funding requested.</p>									
	<b>P-1 ITEM NO</b> 54		<b>PAGE NO:</b> 134				Page 1 of 4		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> <ul style="list-style-type: none"><li>b. COMMAND AND CONTROL WARFARE (C2W) OPERATIONS SUPPORT: No FY06 funding requested.</li><li>c. INFORMATION WARFARE: No FY06 funding requested.</li><li>d. OFFENSIVE IW: No FY06 funding requested.</li><li>e. ELECTRONIC WARFARE (EWIR): FY06 funds 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 of understanding the performance of their systems in hostile threat environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. The analyses are routinely used to support operational mission planning; tactics, techniques and procedures (TTP) development; and acquisition decisions.</li><li>f. COMPUTER NETWORK DEFENSE (CND) SUPPORT: No FY06 funding requested.</li></ul> <p>2. 67th INFORMATION OPERATIONS WING SUPPORT: The 67 IOW, Lackland AFB TX, conducts AIA's global mission. The wing directs the planning of multi-source intelligence, electronic combat services, information warfare, and communications security. It assists Air Force components in the development of airpower concepts, conducting exercises, and employment of AIA forces in contingencies, low-intensity conflict, and special operations.</p> <ul style="list-style-type: none"><li>a. COMPUTER NETWORK DEFENSE: FY06 funds will be used by the Air Force Network Operations Security Center's Network Security Division (AFNOS/NSD) to continue to modernize the internal information technology infrastructure supporting the Computer Network Defense (CND) mission. This initiative focuses on mission survivability and development of contingency systems providing full mission redundancy. The combination of these efforts will ensure the CND infrastructure maintains pace with the growing number of network intrusion attempts and continued security of the operational networks.</li></ul> <p>3. HQ AIR INTELLIGENCE AGENCY (HQ AIA) SUPPORT: The Telecommunications Monitoring and Assessment Program (TMAP) Program</p>					
	<b>P-1 ITEM NO</b> 54		<b>PAGE NO:</b> 135		Page 2 of 4

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> Management Office (PMO), HQ AIA/DOOI, maintains technological parity with the Air Force telecommunications architecture for TMAP mission system equipment used to monitor digital voice, data, and facsimile.  a. TMAP: FY06 funds will be used by PMO, HQ AIA/DOOI, to ensure mission analysis software maintains the capability to evaluate recorded data within the timelines required by Combatant Commanders. Specifically, these funds will be used to complete the analog-to-digital switch conversions, upgrade existing monitoring equipment and analysis capability at Electronic System Security Assessment Central (ESSAC) locations to handle increased taskings, and acquire full remoting capability to reduce dependence on deployed TMAP/ESSA monitoring teams.  4. 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 commanders 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 to 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-source data on both friendly and threat forces. This data is used as input into sophisticated IO computer 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 to 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, are 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 combatant commanders, national agencies, exercises, and advanced concept technology demonstration (ACTD) vulnerability assessments.  a. ELECTRONIC COMBAT (EC) ANALYST NETWORK: 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					
	<b>P-1 ITEM NO</b> 54		<b>PAGE NO:</b> 136		Page 3 of 4

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> systems to improve performance of IO computer models.  b. COMBAT ANALYSIS SYSTEM: Funding provides field commander support systems, including automated support systems for IO training.  c. FIELD COMMANDERS SUPPORT: Funding provides for workstations, which deploy with combatant commander support teams and provide on-scene analytical support as well as reach-back capability (replaced every three years).  d. COMPUTER TRAINING SIMULATION: Funding provides for computer hardware, which hosts IO planning analysis tools used for training at centers worldwide.  e. IO RED TEAM SUPPORT: Funding provides for deployable field support systems, equipment, and training for detecting, identifying, locating, targeting, exploiting, and signals in support of combatant commanders, national agencies, exercises, and ACTD vulnerability assessments.  A reduction or loss in funding would severely hamper support to joint force, service, and functional component commanders in C2W/IO support. Specifically, the lack of funding would result in the following: (1) Inability to replace computer systems to host training simulations in gaming centers worldwide; (2) Extremely limited upgrades to multi-processor which would degrade performance and significantly delay interoperability with virtual simulations; (3) Severe restriction in the use of IO computer models for field Commander Targeting Support and IO Red Team vulnerability assessments; (4) No replacement of combatant commander support team deployable workstations with state-of-the-art technology and equipment; (5) A dramatic restriction in Protect/Defense support; and (6) Limited ability to store IO data for combatant commanders.					
	<b>P-1 ITEM NO</b> 54		<b>PAGE NO:</b> 137		Page 4 of 4

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFIWC SUPPORT			{\$6,340,000}		{\$8,452,000}		{\$1,461,000}		{\$1,515,000}
ADP UPGRADES	A		\$298,000		\$305,000				
C2W OPS SUPPORT	A		\$315,000		\$340,000				
INFORMATION WARFARE	A		\$2,050,000		\$2,595,000				
OFFENSIVE IW	A		\$1,106,000		\$1,720,000				
EWIR	A		\$1,020,000		\$1,412,000		\$1,461,000		\$1,515,000
COMPUTER NETWORK DEFENSE SUPPORT	A		\$1,551,000		\$2,080,000				
67TH INFO OPS WING SUPPORT			{\$340,000}		{\$413,000}		{\$345,000}		{\$359,000}
COMPUTER NETWORK DEFENSE	A		\$340,000		\$413,000		\$345,000		\$359,000
HQ AIA/DOOI									
TMAP	A		\$1,006,000		\$1,150,000		\$1,415,000		\$1,436,000
JIOC			{\$1,536,000}		{\$1,752,000}		{\$1,296,000}		{\$1,345,000}
EC ANALYST NETWORK	A		\$224,000		\$336,000		\$340,000		\$347,000

	<b>P-1 ITEM NO</b> 54		<b>PAGE NO:</b> 138	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT ANALYSIS SYSTEM	A		\$970,000		\$1,009,000		\$544,000		\$577,000
FIELD COMMANDERS SUPPORT	A		\$106,000		\$106,000		\$107,000		\$110,000
COMPUTER TNG SIM	A		\$136,000		\$177,000		\$179,000		\$183,000
IO RED TEAM SUPPORT	A		\$100,000		\$124,000		\$126,000		\$128,000
TOTALS:			\$9,222,000		\$11,767,000		\$4,517,000		\$4,655,000
<p><b>Remarks:</b> Cost information is in actual dollars.</p>									
<b>P-1 ITEM NO</b> 54			<b>PAGE NO:</b> 139			Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<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>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$16,377	\$18,415	\$12,738	\$13,228	\$6,072	\$5,663	\$5,609	\$5,694	
<p><b>Description:</b></p> <p>Global Combat Support System - GCSS provides 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 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> The CMOS provides the AF and other military services In-Transit Visibility (ITV) of cargo and passengers, allowing Joint Command and Service warfighters to effectively assess support for worldwide combat operations and force sustainment. CMOS operates worldwide, both in-garrison and in forward deployed locations, providing a standard tool to package, label, and document unit and sustainment cargo movement and manifest passengers. This flexible capability contributes significantly to the AF ability to move forces when and where they are needed. FY06 funds provide for server consolidation and upgrades of server equipment. Planned funding will also procure a new, more expeditionary CMOS "pick-up and go" capability to be fielded via deployable laptops and printers. This ITV and cargo processing capability is a significant current shortfall to the joint warfighter.</li> <li>2. <b>WING AUTOMATIC DATA PROCESSING SUPPORT:</b> No FY06 funding is requested.</li> <li>3. <b>FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS):</b> FAMS provides an Automatic Information Technology (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: petroleum resources,</li> </ol>									
	<b>P-1 ITEM NO</b> 55		<b>PAGE NO:</b> 140				Page 1 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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> <p>Total Asset Visibility (TAV) for this critical warfighting commodity; On-Line Transaction Processing capability to reduce accounting errors in a \$2.7 billion annual business; mitigates personnel and property risks through on-line inventory monitoring eliminating potential for fuel spills and inventory losses; reduces AF fuels management manpower; and provides 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. 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. FY06 funding procures 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.</p> <p>4. FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST): FIRST is the foundation for the AF's Planning, Programming, Budgeting and Execution system. The system, which is being developed using the spiral development approach and integrated onto the GCSS-AF architecture, includes: Enterprise Data View, Budget Formulation, Funds Management, Budget Execution, and Cost Modeling. FY06 funding will procure hardware and licenses for deployment of the FIRST application. The FIRST deployment is an effort aimed at providing an integrated, modern, and seamless financial management system that enables authorized users from the Air Staff to plan, program, and execute budgets down to base level.</p> <p>The development funding for FIRST is in PE 91538F. FIRST is in post Milestone B and conducting development of Budget Formulation and web-based Automated Business Services System 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.</p> <p>5. INTEGRATED MAINTENANCE DATA SYSTEM (IMDS): IMDS is an information technology program that provides joint command and Air Force warfighters with global visibility of aircraft, space, missile, and communications maintenance, as well as related support environments. IMDS provides the</p>					
	<b>P-1 ITEM NO</b> 55		<b>PAGE NO:</b> 141		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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> capability to plan and accomplish combat operations anywhere in the world. Thus, IMDS enables the Air Force to increase its combat sortie production capability while also decreasing its mobility footprint and cost of operations. IMDS includes sustainment of AF standard base-level legacy maintenance systems, ensuring operational maintenance capabilities continue to support the operational Air Force. Beginning in FY06, the Expeditionary Combat Support System (ECSS) /Enterprise Resource Planning (ERP) Program will subsume the IMDS requirements. ECSS is described in this P-1 line. No FY06 funding is requested for IMDS, separate from ECSS.  6. STANDARD PROCUREMENT SYSTEM (SPS)/PAPERLESS CONTRACTING: No FY06 funding is requested.  7. EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS): ECSS is a Commercial Off The Shelf (COTS) system that will enable the Expeditionary Logistics 21st Century (eLog21) logistics 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. The FY06 funds will be used to procure COTs hardware, software, and software licenses to support its deployment.  The development funding for ECSS is in PE78610F and the program is in pre Milestone A.					
	<b>P-1 ITEM NO</b> 55		<b>PAGE NO:</b> 142		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CARGO MOVEMENT OPERATIONS SYSTEM (CMOS)	A		\$844		\$545		\$550		\$560
WING AUTOMATIC DATA PROCESSING (ADP) SUPPORT (WAS)	A		\$2,326		\$2,484				
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)	A		\$9,558		\$9,097		\$8,904		\$9,275
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)	A		\$1,225		\$722		\$749		\$786
INTEGRATED MAINTENANCE DATA SYSTEM (IMDS)	A		\$2,424		\$2,693				
STANDARD PROCUREMENT SYSTEM (SPS)	A				\$2,874				
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)	A						\$2,535		\$2,607
		<b>P-1 ITEM NO</b> 55		<b>PAGE NO:</b> 143				Page 1 of 2	

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TOTALS:			\$16,377		\$18,415		\$12,738		\$13,228

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 55		<b>PAGE NO:</b> 144	Page 2 of 2
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS						
ITEM / 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)										
FY2004(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-04	Jun-04			
FY2005(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-05	Aug-05	Yes		
FY2006(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-06	Aug-06	Yes		
FY2007(1)			AFMC/SSG	REQN/FP	MULTIPLE	Mar-07	Aug-07	Yes		
WING AUTOMATIC DATA PROCESSING (ADP) SUPPORT (WAS)										
FY2004(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-03	Jan-04			
FY2005(2)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-04	Jan-05			
FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS)										
FY2004(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-03	Jun-04			

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE FAMILY OF SYSTEMS						
ITEM / 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	
FY2005(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-04	Feb-05			
FY2006(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-05	Feb-06	No	Feb-05	
FY2007(3)			AFMC/WR-ALC	OPT/FP	MULTIPLE	Dec-06	Feb-07	No	Feb-06	
FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST)										
FY2004(4)			11WING	OPT/CPAF	MULTIPLE	Jun-04	Mar-05			
FY2005(4)			11WING	OPT/CPAF	MULTIPLE	Jun-05	Mar-06	Yes		
FY2006(4)			11WING	OPT/CPAF	MULTIPLE	Jun-06	Apr-07	Yes		
FY2007(4)			11WING	OPT/CPAF	MULTIPLE	Jun-07	May-08	Yes		
INTEGRATED MAINTENANCE DATA SYSTEM (IMDS)										
FY2004(5)			AFMC/SSG	MIPR/FP	GSA/GSA/MULTIPLE	Mar-04	Jul-04			
FY2005(5)			AFMC/SSG	MIPR/FP	GSA/GSA/MULTIPLE	May-05	Jul-05	Yes		
			<b>P-1 ITEM NO</b> 55			<b>PAGE NO:</b> 146	Page 2 of 4			

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<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 / 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	
STANDARD PROCUREMENT SYSTEM (SPS)										
FY2005(6)			AFMC/SSG	DO/FFP	MULTIPLE	Dec-04	Mar-05			
EXPEDITIONARY COMBAT SUPPORT SYSTEM (ECSS)										
FY2006(7)			AFMC/MSG	C/FFP	UNKNOWN	May-06	Jul-06	No	Jan-06	
FY2007(7)			AFMC/MSG	C/FFP	UNKNOWN	May-07	Jul-07	No	Jan-07	
<b>Remarks:</b>										
Quantity/unit costs vary depending on site configuration.										
(1) Multiple contracts to include: FY00 Automatic Identification Technology II contract with Symbol 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) Options to multiple GSA Schedule contracts. Award/delivery dates represent the date of first award and delivery. Contracts are typically, but not exclusively, executed off Standard Systems Group Commercial Information Technology-Product Area Directorate.										
(3) Various contracts are available through the following vendors: Cegelec, Germany, GSA Schedule, SPAWARS and AFCEE. Award/delivery dates										
			<b>P-1 ITEM NO</b> 55			<b>PAGE NO:</b> 147	Page 3 of 4			

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<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 / 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>represent the date of first award/delivery.</p> <p>(4) 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.</p> <p>(5) Multiple GSA schedule contractors, including Electronic Data Systems (EDS), Herndon, VA; General Analytics Corp, McLean, VA; HSF Inc, McLean, VA; GTE, West Lake, CA; IBM, Bethesda, MD; PRC, San Antonio, TX; Toshiba American, Irvine, CA; FGM Inc, Herndon, VA; Computer Science Corp (CSC), Hanover, MD; Systems Research &amp; Applications (SRA), Arlington, VA; Comteq Federal, Rockville, MD; Comnet Sciences, Shearwater, NJ; Dynamix, Largo, MD; Compstore, Chantilly, VA; Pacific Radio Electronics, Hollywood, CA; Professional Products, Bethesda, MD; Newark Electronics, Bethesda, MD; Logicon Tech, San Pedro, CA, ORACLE, Redwood Shores, CA. Award/delivery dates reflect date of first award and delivery.</p> <p>(6) Multiple contractors will be used to satisfy requirements.</p> <p>(7) ECSS program is premilestone A. Contractor and location to be determined.</p>										
<b>P-1 ITEM NO</b> 55			<b>PAGE NO:</b> 148		Page 4 of 4					

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$44,017	\$41,359	\$41,709	\$29,426	\$34,068	\$34,406	\$40,833	\$38,693
<p><b>Description:</b></p> <p>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 the Air and Space Operations Center Weapon System (AOC WS) force level and unit level (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. The TBMCS program integrated several "stovepipe" systems into a common operating environment, subsuming the functions of the Contingency Theater Automated Planning System (CTAPS), the Combat Intelligence System (CIS), and the Wing Command and Control System (WCCS). This integration provides a consistent software architecture.</p> <p>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. As the functions of CTAPS (force level), WCCS (unit level) and CIS (intelligence) migrated into TBMCS, the funding for the earlier separate procurements was realigned under this program.</p> <p>TBMCS funds procure 1) a full complement of fully configured equipment for initial unit-level operations installations at one site in FY06; 2) fully configured hardware upgrades for fielded force and unit level (operations and intelligence) installations necessary to sustain operations; 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 software spirals.</p>								
	<b>P-1 ITEM NO</b> 56		<b>PAGE NO:</b> 149				Page 1 of 1	

# UNCLASSIFIED

# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TBMCS (1)				{\$20,560}			{\$17,426}			{\$20,682}			{\$12,932}
FORCE	A			\$10,873			\$10,978			\$11,726			\$5,026
UNIT (2-3)	A			\$8,192			\$4,461			\$7,155			\$6,664
CIS (INTEL)	A			\$1,495			\$1,987			\$1,801			\$1,242
COTS SOFTWARE LICENSES				\$8,653			\$8,608			\$7,562			\$7,473
TYPE 1 TRAINING (4)				\$4,929			\$5,829			\$3,969			\$1,653
INTERIM CONTRACTOR SUPPORT (ICS) (4-5)				\$1,500			\$1,547			\$1,547			\$1,385
SYSTEM ENGINEERING				\$2,855			\$2,740			\$2,827			\$2,130
PROGRAM SUPPORT				\$5,520			\$5,209			\$5,122			\$3,853
<b>TOTALS:</b>				\$44,017			\$41,359			\$41,709			\$29,426

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

(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 and Air Force Special Operations Command.

(2) Unit Level installations reduced in FY05 due to higher Air Force priorities.

	<b>P-1 ITEM NO</b> 56	<b>PAGE NO:</b> 150	Page 1 of 2
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# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>										<b>DATE:</b> FEBRUARY 2005				
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
<p>(3) Secretary of the Air Force and the Chief of Staff of the Air Force approved Special Interest Item - Unit Level Functionality. Funding for this effort starts in FY06.</p> <p>(4) Type 1 Training and ICS are ongoing requirements driven by installation schedule and frequent software releases consistent with spiral development.</p> <p>(5) 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 new spiral releases to existing TBMCS locations.</p>														
<b>P-1 ITEM NO</b> 56				<b>PAGE NO:</b> 151				Page 2 of 2						

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEM						
ITEM / 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										
FY2004(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Oct-03	Dec-03			
FY2005(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Jan-05	Mar-05			
FY2006(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-05	Feb-06	Yes		
FY2007(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-06	Feb-07	No	Sep-06	
UNIT										
FY2004(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Oct-03	Dec-03			
FY2005(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Jan-05	Mar-05			
FY2006(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-05	Feb-06	No	Sep-05	
FY2007(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-06	Feb-07	No	Sep-06	
CIS (INTEL)										
FY2004(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Oct-03	Dec-03			

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM						
ITEM / 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	
FY2005(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Jan-05	Mar-05			
FY2006(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-05	Feb-06	No	Sep-05	
FY2007(1-2)			AFMC/ESC	OPT/IDIQ	MULTIPLE	Dec-06	Feb-07	No	Sep-06	
<p><b>Remarks:</b></p> <p>(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 and Air Force Special Operations Command.</p> <p>(2) Multiple General Services Administration contracts, including the CITPAD, for COTS equipment are used. Companies include World Wide Technology Maryland Heights, MO; Government Technology Services, Inc. Chantilly, VA; and Dell Incorporated, Austin, TX. Award/delivery dates reflect date of first award and delivery.</p>										
			<b>P-1 ITEM NO</b> 56			<b>PAGE NO:</b> 153	Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR OPERATIONS CENTER (AOC)					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$45,613	\$42,827	\$21,816	\$27,063	\$41,866	\$37,726	\$46,303	\$32,469	
<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 the Commander, Air Force Forces provides the Joint Forces Air Component Commander (JFACC) for planning and executing theater-wide aerospace forces. The AOC-WS develops operational strategy and planning documents. The AOC-WS 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. The JFACC provides air and space support to the Joint Forces Commander (JFC) by coordinating, deconflicting, and assessing the progress of various weapon systems to advance the JFC's campaign. The AOC-WS also provides Time-Critical Targeting Functionality, which improves command and control (C2) capability to locate and pursue time-critical targets. The Air Force must improve existing C2 capabilities of the AOC-WS by leveraging technology to modernize current systems and automate C2 and Intelligence, Surveillance, and Reconnaissance (ISR) processes. The drop in funding from FY05 to FY06 is due to a Chief of Staff Air Force directed realignment of 3080 dollars to 3600 in support of AOC-WS modernization efforts.</p> <p>1. AOC-WS PROGRAM: The AOC-WS program provides system hardware, software, technical documents and technology refresh to make the AOC a viable weapon system. The program consists of Falconer AOCs, Tailored Falconers or Functional AOCs (AOCs are tailorable, modular, and scaleable). They come in different sizes and shapes depending on what the commander needs. This means the commander can add to or subtract from the capabilities in the AOC to suit the needs of a particular operation and environment and AOC support (e.g. Formal Training Unit, Help Desk, Combined Air Operations Center-Experimental). 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 will include initial hardware/software procurement, technical manuals, training, and required technical refresh. These deliveries will be fielded, in priority order, to critical AOC support elements, Falconers, training suites to Tailored Falconers, and finally functional AOCs. Development funds for this program are in Program Element Code 0207410F.</p>									
	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 154		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR OPERATIONS CENTER (AOC)			
<b>Description (continued):</b> FY04 and FY05 program activities are accomplished by the government. Starting in FY06, the government will use a Lead System Integrator (LSI) to support program activities.  a. <b>INCREMENT FIELDING:</b> FY06 funding will be used to field and standardize full Falconer AOCs, the AOC Formal Training Unit, the Help Desk, and training suites to Tailored Falconer AOCs at the Increment 10.1 configuration. Increment 10.1 includes independent systems across the entire spectrum of C2, communications, and ISR battle management and comprise the robust, fully functioning AOC-WS.  b. <b>TECH REFRESH:</b> The AOC-WS program plans to provide and maintain state-of-the-art weapon systems. Technically advanced hardware will replace aging components to maintain information dominance, operational integrity, and currency. FY06 funds will be used to provide technical refresh to currently fielded Falconer AOCs and Tailored Falconer training suites.  c. <b>TECHNICAL DOCUMENTATION:</b> The Technical Documentation Program provides technical orders, flight manuals, and other required documentation to the warfighter. The Technical Documentation Program supports safe and secure operations, installation, maintenance, and sustainment of the AOC-WS. In addition, technical documentation is critical to maintaining system configuration and deriving training requirements for the weapon system. FY06 funds will be used to procure flight manuals.  d. <b>CONTRACT ENGINEERING &amp; SYSTEMS PROGRAM SUPPORT:</b> FY06 funding includes provisions for Government Contract oversight, technical expertise, and Program Management Activities in the AOC-WS Program Office, associated with the fielding of the AOC-WS.  2. <b>COMBINED AIR AND SPACE OPERATIONS CENTER EXPERIMENTAL (CAOC-X),</b> part of the Air Force Transformation Center (AFTC): The CAOC-X at Langley AFB, VA, procures and tests AOC-WS capabilities to prevent fratricide, integrate Common Operating Picture (COP) inputs, enhance targeting and tracking systems, and reduce planning and execution timelines. Funding will also procure instrumentation and test equipment to capture data for system, network, and operator performance analysis during assessments.					
	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 155		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR OPERATIONS CENTER (AOC)			
<b>Description (continued):</b>  3. TIME-CRITICAL TARGETING FUNCTIONALITY (TCTF): TCTF is an integrated set of automated decision aids/tools that enable successful prosecution of Time-Critical Targets (TCTs) with key functionalities to include Terrain Analysis, Intelligence Preparation of the Battlespace, Tracking and nominating multiple TCTs, and Weapon Target Pairing. Current systems do not meet warfighter requirements for identifying TCTs and tasking strike assets within the limited window of vulnerability. FY06 funding provides enhanced C2 capabilities in the form of integrated workstations, servers, mass storage devices, printers, and other connectivity equipment to find, fix, track, target, engage, and assess TCTs.					
	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 156		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: AIR OPERATIONS CENTER (AOC)									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
1. AOC-WS PROGRAM				{\$39,294}			{\$39,659}			{\$19,677}			{\$23,417}	
A. INCREMENT FIELDING	A			\$37,294			\$32,229			\$4,677			\$8,667	
B. TECHNICAL REFRESH	A						\$4,230			\$7,900			\$8,000	
C. TECHNICAL DOCUMENTATION	A			\$2,000			\$3,200			\$3,100			\$2,900	
D. CONTRACT ENGINEERING & SYSTEMS PROGRAM SUPPORT	A									\$4,000			\$3,850	
2. CAOC-X	A			\$4,692			\$1,432			\$1,514			\$2,174	
3. TIME-CRITICAL TARGETING FUNCTIONALITY	A			\$1,627			\$1,736			\$625			\$1,472	
TOTALS:				\$45,613			\$42,827			\$21,816			\$27,063	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 57					<b>PAGE NO:</b> 157					
												Page 1 of 1		

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR OPERATIONS CENTER (AOC)						
ITEM / 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. AOC-WS PROGRAM(1)										
INCREMENT FIELDING										
FY2004(1)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Nov-03	May-04			
FY2005(1)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Nov-04	May-05			
FY2006(1)			AFMC/ESC	MIPR/C/CPAF	UNKNOWN	Feb-06	Nov-06	Yes		
FY2007(1)			AFMC/ESC	DO/CPAF	UNKNOWN	Feb-07	Nov-07	Yes		
TECHNICAL REFRESH										
FY2005(1)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Nov-04	Jan-05			
FY2006(1)			AFMC/ESC	MIPR/C/CPAF	UNKNOWN	Feb-06	Nov-06	Yes		
FY2007(1)			AFMC/ESC	DO/CPAF	UNKNOWN	Feb-07	Nov-07	Yes		
TECHNICAL DOCUMENTATION										
FY2004(1)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Nov-03	Dec-03			
FY2005(1)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Nov-04	Dec-04			

	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 158	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR OPERATIONS CENTER (AOC)						
ITEM / 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	MIPR/C/CPAF	UNKNOWN	Feb-06	Nov-06	Yes		
FY2007(1)			AFMC/ESC	DO/CPFF	UNKNOWN	Feb-07	Nov-07	Yes		
D. CONTRACT ENGINEERING & SYSTEMS PROGRAM SUPPORT										
FY2006(3)			AFMC/ESC	DO/FFP	UNKNOWN	Oct-05	Sep-06	Yes		
FY2007(3)			AFMC/ESC	DO/FFP	UNKNOWN	Oct-06	Sep-07	Yes		
CAOC-X										
FY2004(1-2)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-04	May-04			
FY2005(1-2)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-05	May-05			
FY2006(1-2)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-06	May-06	Yes		
FY2007(1-2)			HQ ACC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-07	May-07	Yes		

	<b>P-1 ITEM NO</b> 57		<b>PAGE NO:</b> 159	Page 2 of 3
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR OPERATIONS CENTER (AOC)						
ITEM / 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	
TIME-CRITICAL TARGETING FUNCTIONALITY										
FY2004(1-2)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-04	May-04			
FY2005(1-2)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-05	May-05			
FY2006(1-2)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-06	May-06	Yes		
FY2007(1-2)			AFMC/ESC	MIPR/OPT/IDIQ	GSA/MULTIPLE	Jan-07	May-07	Yes		
<p><b>Remarks:</b></p> <p>Multiple award delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.</p> <p>(1) Quantity and Unit Cost vary due to unique AOC site configurations and capabilities.</p> <p>(2) Contractors for TCT-F are Zel Technologies, Hampton, VA, and MITRE-Bedford, MA. Contractors for CAOC-X are MITRE-Bedford, MA, and Lockheed Martin, Colorado Springs, CO.</p> <p>(3) Beginning in FY06 Contract Engineering &amp; Systems Program Support is broken out separately.</p>										
			<b>P-1 ITEM NO</b> 57			<b>PAGE NO:</b> 160	Page 3 of 3			

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$280,151	\$359,678	\$374,926	\$355,621	\$513,940	\$645,759	\$851,896	\$872,577	
<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. At the present time, BII funds the Combat Information Transport System (CITS) program, Joint Network Management System (JNMS), Network Connectivity, Public Key Infrastructure (PKI), common servers for the Global Combat Support System (GCSS-AF) integration framework infrastructure, Operationalizing and Professionalizing the Network (OPTN), Common Access Card, AF Network Operating Support Center (AFNOSC), and Air Force Directory Service. Increases in FY06 funding represent an Air Force corporate commitment to increase the number of operational users being migrated to classified networks to increase information assurance capabilities during times of ever-increasing threats.</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 managed by the CITS Program Office. The product areas are 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</p>									
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 161				Page 1 of 6		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> <p>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 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. FY06 funds direct mission support and procures ITS installation projects for the highest priority bases. Installs include: fiber optic backbone, network equipment, encryption devices, virtual private networks, voice and video interfaces, building wiring, wireless, network access, training, test, and support. Any delay in ITS installation will impact the schedules of several C2 and combat support automation modernization programs dependent upon the in-place fiber optic ITS infrastructure.</p> <p>b. NETWORK OPERATIONS/INFORMATION ASSURANCE (NO/IA): NO/IA 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). NO/IA 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 infrastructure. NO/IA 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. FY06 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.</p>					
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 162		Page 2 of 6

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b>  c. VOICE SWITCHING SYSTEM (VSS): VSS product area provides technology upgrades, line expansion to existing base telephone systems, and new commercial-off-the-shelf 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. FY06 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. FY06 funds direct mission support and procure upgrades for 380 switches in the AF inventory to support converged voice and data traffic onto a single network transport layer.  2. NETWORK CONNECTIVITY: No FY06 funds requested.  3. PUBLIC KEY INFRASTRUCTURE (PKI): PKI provides nonrepudiation, user identification, and confidentiality for government electronic business. FY06 funds procure infrastructure computers and Air Force-wide public/private key hardware/software needed to generate, certify, and distribute public/private key pairs for computer applications requiring information assurance capabilities (digital signatures and data encryption). The DoD PKI Vision is to pursue "Continuous Improvement of Reliability, Maintainability and Assurance of Infrastructure." The PKI Program Plan indicates evolutionary steps such as migration to 2048-bit keys, second source certification authority, and government applet control to continue throughout the FYDP.  4. GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE (GCSS-AF): While the GCSS-AF Family of Systems (P-1 Line 54) provides funding for a variety of functional user systems, Base Information Infrastructure (P-1 Line 57) provides funding for GCSS-AF's Integration Framework and the AF Portal presentation layer to AF operational users. As the customer interface on GCSS-AF, the Portal provides the worldwide, standard security and single sign-on for accessing a variety of functional systems. Additional security features using PKI and AF Directory Services will be used by framework so security will not have to be duplicated in each of the functional systems being modernized under P-1 Line 54, GCSS-AF Family of Systems.  a. GCSS-AF ARCHITECTURE: FY06 funding procures the integration framework (architecture) to be fielded AF-wide. The current plan for FY06					
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 163		Page 3 of 6

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> calls for sustaining the fielded portal through the procurement of refreshing hardware and Portal, Metrics, Search, and Middleware software for the SIPRNET, two NIPRNET, and one existing production site in CONUS at the Defense Information Systems Agency (DISA) Defense Enterprise Computing Center. This effort will procure application, security, web, and proxy servers, software, and associated licenses and engineering support.  b. CHIEF FINANCIAL OFFICER (CFO) SYSTEMS AND SUPPORT: CFO Systems and Support is comprised of two efforts. The Commander's Resource Integration System (CRIS), provides an extensive data base capability that includes accounting, logistics, and operational data. Systems are currently deployed to each MAJCOM and will continue deployment to bases in FY07. Deployment and expansion of the data base for increased data storage requires the purchase of additional servers. The second effort, IAW the SECAF and CSAF Server Consolidation Initiative, is the year-to-year capital replacement on all CFO systems (Automated Business Services Systems, Leave Web, CRIS). This replacement plan prevents mechanical and technological obsolescence. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.  c. STANDARD PROCUREMENT SYSTEM (SPS): No FY06 funds requested. This has moved to the GCSS-AF FOS (P-1 Line 54).  5. AIR FORCE SYSTEMS NETWORKING (AFSN): No FY06 funds are requested.  6. INFORMATION SYSTEM SECURITY PROGRAM (ISSP). FY06 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, 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.  7. ALASKA-WIDE LAND MOBILE RADIO (LMR) PROGRAM. The FY05 Appropriation report 108-622, dated 20 July 2004, included a Congressional add of \$10,200,000 to this program. No FY06 funding requested.					
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 164		Page 4 of 6

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b>					
<p>8. AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP). The FY05 Appropriation report 108-622, dated 20 July 2004, included a Congressional add of \$1,000,000 to this program. No FY06 funding requested.</p>					
<p>9. 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 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. The JNMS supports Presidential Directive NSPD23 and SecDef Memorandum on Global Missile Defense for the Ballistic Missile Defense System. FY06 funds procure direct mission support and installation of critical information equipment capabilities for worldwide joint network operations.</p>					
<p>10. PACAF C2 NETWORK MODERNIZATION AND REVITALIZATION. No FY06 funding is requested.</p>					
<p>11. COMMON ACCESS CARD (CAC). CAC is a separate program within the PKI program. FY06 funds provide for the CAC, which is the standard DoD identification card for visual identification and for gaining physical access to buildings and controlled spaces. It contains DoD PKI certificates that enable cardholders to digitally sign and encrypt electronic documents such as email and to establish secure Internet sessions.</p>					
<p>12. AIR FORCE NETWORK OPERATING SUPPORT CENTER (AFNOSC). AFNOSC directs time-critical actions to maintain and protect the Air Force Enterprise Network (NIPR/SIPR). It fuses network performance, sensor, intelligence, and law enforcement data to determine the impact of network events or potential impacts of network vulnerability to on-going and planned Air Force and Joint Operations. AFNOSC develops integrated courses of action to restore</p>					
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 165		Page 5 of 6

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b>  services and mitigate vulnerabilities to networks and analyze cyber security metrics.  13. 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. The AFDS meta-service “joins” identity attributes from AF and DoD authoritative data sources, and makes them available for consumption across the AF Enterprise by leveraging commercial open standards. 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 initial focus of AFDS is on the creation and management of identity and person (user) data objects - the technology is capable of supporting AF long-term needs in the areas of material, equipment, services, and applications.  14. ACQUISITION CENTER OF EXCELLENCE(ACE). No FY06 funding requested.					
	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 166		Page 6 of 6

UNCLASSIFIED

# UNCLASSIFIED

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

**DATE:** FEBRUARY 2005

**APPROP CODE/BA:**

OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

**P-1 NOMENCLATURE:**

BASE INFORMATION INFRASTRUCTURE

PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMBAT INFORMATION TRANSPORT SYSTEM (CITS)			{ \$213,897 }		{ \$311,105 }		{ \$349,147 }		{ \$329,762 }
INFORMATION TRANSPORT SYSTEM (ITS)	A		\$121,271		\$194,151		\$146,807		\$150,006
NETWORK OPERATIONS/INFORMATION ASSURANCE (NO/IA)	A		\$51,311		\$109,054		\$176,382		\$153,187
VOICE SWITCHING SYSTEM (VSS)	A		\$41,315		\$7,900		\$25,958		\$26,569
NETWORK CONNECTIVITY	A		\$11,154		\$8,795				
PUBLIC KEY INFRASTRUCTURE (PKI)	A		\$7,662		\$2,313		\$4,668		\$1,477
GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE			{ \$15,414 }		{ \$8,550 }		{ \$11,768 }		{ \$11,756 }
GCSS-AF ARCHITECTURE	A		\$11,421		\$7,580		\$10,588		\$10,517
CFO SYSTEMS AND SUPPORT	A		\$1,103		\$970		\$1,180		\$1,239
STANDARD PROCUREMENT SYSTEM	A		\$2,890						
AIR FORCE SYSTEMS NETWORKING	A		\$2,610						
INFORMATION SYSTEMS SECURITY PROGRAM	A		\$8,371		\$7,840		\$1,136		\$2,007
ALASKA-WIDE LAND MOBILE RADIO (LMR) PROGRAM	A		\$10,323		\$10,200				

**P-1 ITEM NO**

58

**PAGE NO:**

167

Page 1 of 2

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP)	A				\$1,000				
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)	A				\$7,358		\$5,209		\$6,826
PACAF C2 NETWORK MODERNIZATION AND REVITALIZATION	A		\$7,742						
COMMON ACCESS CARD (CAC)	A				\$1,692		\$2,009		\$2,038
AIR FORCE NETWORK OPERATING SUPPORT CENTER (AFNOSC)	A								\$745
AIR FORCE DIRECTORY SERVICE (AFDS)	A				\$825		\$989		\$1,010
AQUISITION CENTER OF EXCELLENCE ITS	A		\$2,978						
<b>TOTALS:</b>			\$280,151		\$359,678		\$374,926		\$355,621

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

	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 168	Page 2 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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)(1-2,5)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	Nov-03	Feb-04			
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Nov-04	Dec-04			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06	Yes		
NETWORK OPERATIONS/INFORMATION ASSURANCE (NO/IA)(1-2)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	Nov-03	Dec-03			
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Nov-04	Dec-04			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06	Yes		

	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 169	Page 1 of 7
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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)(1-2)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	Nov-03	Dec-03			
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Nov-04	Dec-04			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06	Yes		
NETWORK CONNECTIVITY(1-2)										
FY2004			HQ AFCA	DO/FFP	MULTIPLE	Nov-03	May-04			
FY2005			HQ AFCA	DO/FFP	MULTIPLE	Nov-04	May-05			
PUBLIC KEY INFRASTRUCTURE (PKI)(1,3)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	Dec-03	Jan-04			
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Dec-04	Jan-05			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Dec-05	Jan-06	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Dec-06	Jan-07	Yes		
		<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 170			Page 2 of 7		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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 COMBAT SUPPORT SYSTEM - AIR FORCE										
GCSS-AF ARCHITECTURE(1,4)										
FY2004			AFMC/SSG	MIPR/IDIQ	GSA/MULTIPLE	Nov-03	Dec-03			
FY2005			AFMC/SSG	MIPR/IDIQ	GSA/MULTIPLE	Nov-04	Dec-04			
FY2006			AFMC/SSG	MIPR/IDIQ	GSA/MULTIPLE	Nov-05	Dec-05	Yes		
FY2007			AFMC/SSG	MIPR/IDIQ	GSA/MULTIPLE	Nov-06	Dec-06	Yes		
CFO SYSTEMS AND SUPPORT(1)										
FY2004			11WING	DO/FFP	MULTIPLE	Feb-04	Mar-04			
FY2005			11WING	DO/FFP	MULTIPLE	Feb-05	Mar-05			
FY2006			11WING	DO/FFP	MULTIPLE	Feb-06	Mar-06	Yes		
FY2007			11WING	DO/FFP	MULTIPLE	Feb-07	Mar-07	Yes		
STANDARD PROCUREMENT SYSTEM(1)										
FY2004			AFMC/SSG	DO/FFP	MULTIPLE	Nov-03	Jan-04			
		<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 171			Page 3 of 7		

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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 SYSTEMS NETWORKING(1-2)										
FY2004			AFMC/SSG	DO/FFP	MULTIPLE	Nov-03	Dec-03			
INFORMATION SYSTEMS SECURITY PROGRAM(1,5)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	Nov-03	Jan-04			
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Nov-04	Jan-05			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Jan-06	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Jan-07	Yes		
ALASKA-WIDE LAND MOBILE RADIO (LMR) PROGRAM(2)										
FY2004			HQ PACAF	DO/FFP	MULTIPLE	Mar-04	May-04			
FY2005			HQ PACAF	DO/FFP	MULTIPLE	Mar-05	Sep-05	Yes		
AIR FORCE RESERVE CONTINUITY OF OPERATIONS PLAN (AFRC COOP)										
FY2005			HQ AFRC	C/FFP	UNKNOWN	Mar-05	Sep-05	Yes		

	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 172	Page 4 of 7
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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	
JOINT NETWORK MANAGEMENT SYSTEM (JNMS)(1-2)										
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Nov-04	Dec-04			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Nov-05	Dec-05	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Nov-06	Dec-06	Yes		
PACAF C2 NETWORK MODERNIZATION AND REVITALIZATION(1)										
FY2004			HQ PACAF	DO/FFP	MULTIPLE	Dec-03	Jan-04			
COMMON ACCESS CARD (CAC)(1)										
FY2005			AFMC/ESC	DO/FFP	MULTIPLE	Dec-04	Jan-05			
FY2006			AFMC/ESC	DO/FFP	MULTIPLE	Dec-05	Jan-06	Yes		
FY2007			AFMC/ESC	DO/FFP	MULTIPLE	Dec-06	Jan-07	Yes		
AIR FORCE NETWORK OPERATING SUPPORT CENTER (AFNOSC)										
FY2007			HQ ACC	C/FFP	UNKNOWN	Jan-07	Mar-07	Yes		

	<b>P-1 ITEM NO</b> 58		<b>PAGE NO:</b> 173	Page 5 of 7
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / 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 DIRECTORY SERVICE (AFDS)(1-2)										
FY2005			AFMC/SSG	DO/FFP	MULTIPLE	Nov-04	Jun-05			
FY2006			AFMC/SSG	DO/FFP	MULTIPLE	Nov-05	Jun-06	Yes		
FY2007			AFMC/SSG	DO/FFP	MULTIPLE	Nov-06	Jun-07	Yes		
AQUISITION CENTER OF EXCELLENCE ITS(1)										
FY2004			AFMC/ESC	DO/FFP	MULTIPLE	May-04	Feb-05			
<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, from the Standard Systems Group Commercial Information Technology-Product Area Directorate (CIT-PAD). CITS: Typical contractors include EDS, Herndon, VA; NG, San Antonio, TX; General Dynamics, Needham, MA; Avaya, St. Petersburg, FL; LSI, Eatontown, NJ; Galaxy Scientific, Crystal City, VA; NexteraOne, Portland, OR.</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> <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>										
			<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 174				Page 6 of 7

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
(5) Given the close linkage between CITS and ISSP, ISSP will be executed through the CITS contractors listed above.										
	<b>P-1 ITEM NO</b> 58			<b>PAGE NO:</b> 175					Page 7 of 7	

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> USCENTCOM				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$28,910	\$48,008	\$31,059	\$32,545	\$43,349	\$35,881	\$36,774	\$37,372
<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 U.S. 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 FY06 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.</p> <ol style="list-style-type: none"> <li>1. <b>USCENTCOM COMMAND AND CONTROL SYSTEMS:</b> FY06 funds provide for modernization of communications and 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.</li> <li>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. FY06 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.</li> </ol>								
	<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 176			Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> USCENTCOM			
<b>Description (continued):</b>					
3. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) DEPLOYABLE C3 UNITS: No FY06 funding requested.					
4. 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. FY06 funds provide for modernization of communications and automation systems, including commercial satellite terminals, telephone switches, network servers and associated information assurance tools. FY06 funds will also improve air traffic control and landing systems in the deployed theater.					
In FY05, \$18.7M was added as directed by the FY05 MILCON Act, P.L. 108-324, Division B Hurricane relief.					
	<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 177		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> USCENTCOM
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
USCENTCOM COMMAND AND CONTROL SYSTEMS	A		\$2,986		\$3,148		\$3,227		\$3,345
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	A		\$4,266		\$3,544		\$3,540		\$3,454
AFSOC DEPLOYABLE C3 UNITS	A		\$474		\$487				
ACC COMMUNICATIONS	A		\$21,184		\$40,829		\$24,292		\$25,746
<b>TOTALS:</b>			\$28,910		\$48,008		\$31,059		\$32,545

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

	<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 178	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT	<b>P-1 NOMENCLATURE:</b> USCENTCOM
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ITEM / 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									
FY2004(1-2)			USCENTCOM	C/FFP	MULTIPLE	Dec-03	Jan-04		
FY2005(2)			USCENTCOM	C/FFP	MULTIPLE	Dec-04	Jan-05		
FY2006(2)			USCENTCOM	C/FFP	UNKNOWN	Dec-05	Jan-06	Yes	
FY2007(2)			USCENTCOM	C/FFP	UNKNOWN	Dec-06	Dec-07	Yes	
JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)									
FY2004(1-2)			11WING	C/FFP	MULTIPLE	Feb-04	Jul-04		
FY2005(2)			11WING	C/FFP	MULTIPLE	Feb-05	Jul-05		
FY2006(2)			11WING	C/FFP	UNKNOWN	Feb-06	Jul-06	Yes	
FY2007(2)			11WING	C/FFP	UNKNOWN	Feb-07	Jul-07	Yes	
AFSOC DEPLOYABLE C3 UNITS									

	<b>P-1 ITEM NO</b> 59		<b>PAGE NO:</b> 179	Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: USCENTCOM						
ITEM / 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	
FY2004(1-2)			HQ AFSOC	C/FFP	MULTIPLE	Feb-04	Jul-04			
FY2005(2)			HQ AFSOC	C/FFP	MULTIPLE	Feb-05	Jul-05			
ACC COMMUNICATIONS										
FY2004(1-2)			HQ ACC	C/FFP	MULTIPLE	Dec-03	Jan-04			
FY2005(2)			HQ ACC	C/FFP	MULTIPLE	Dec-04	Jan-05			
FY2006(2)			HQ ACC	C/FFP	UNKNOWN	Dec-05	Jan-06	Yes		
FY2007(2)			HQ ACC	C/FFP	UNKNOWN	Dec-06	Jan-07	Yes		
<b>Remarks:</b>  (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. Contractor/vendor examples: GTE, Needham Heights, MA; Booz-Allen Hamilton, St. Inigoes, MD; MITRE, Fort Monmouth, NJ; SAIC, San Diego, CA; Microsoft, Charlotte, NC; Sun, McLean, VA; Xerox, Tampa, FL; LNR, Hauppauge, NY; and NISE East, Portsmouth, VA. Award/delivery dates reflect date of first award and delivery.										
	<b>P-1 ITEM NO</b> 59			<b>PAGE NO:</b> 180				Page 2 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> USCENTCOM						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
(2) Quantity/unit costs vary because of different types/configurations of equipment being procured.										
	<b>P-1 ITEM NO</b> 59			<b>PAGE NO:</b> 181					Page 3 of 3	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE BASED IR SENSOR PROGRAM SPACE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> <small>(in Thousands)</small>	\$94,713	\$0	\$3,689	\$4,217	\$3,977	\$1,946	\$1,955	\$1,948	
<p><b>Description:</b></p> <p>The Space-Based Infrared System (SBIRS) consolidates the national and DOD's 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 battle space characterization. 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 will consist of Defense Support Program (DSP) satellites, satellites in Geosynchronous Earth Orbit, payloads hosted on Highly Elliptical Orbit satellites, an integrated centralized Mission Control Station (MCS) and full backup, and relay and mobile ground stations.</p> <p>MISSION CONTROL STATION BACKUP (MCSB): No FY06 funding requested.</p> <p>SBIRS MOBILE and FIXED SITE COMMUNICATIONS/ELECTRONIC UPGRADES: DSP and SBIRS assets maintain ongoing requirements for low-cost upgrades and maintenance that exceed O&amp;M appropriation 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, and Rapid Delog (instantaneous translation of computer data to a human-readable format). Mobile system examples include, but are not limited to, aging radio frequency communications equipment, aging antenna equipment, and aging electrical equipment and cabling. This requirement is equivalent to a low cost mod line for aircraft programs.</p>									
	<b>P-1 ITEM NO</b> 61		<b>PAGE NO:</b> 182				Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE BASED IR SENSOR PROGRAM SPACE			
<b>Description (continued):</b> MGT DATA PROCESSING SUB-SYSTEM (DPSS) UPGRADE: The DSP MGTs use the DPSS to convert DSP satellite data into mission data. The MGT DPSS contains several unique, one-of-a-kind circuit cards used only within the MGT that are gradually being depleted and must be reengineered and replaced to keep the system viable until 2011 fielding of SBIRS M3Ps. The upgrade is basically a form, fit, and function replacement.					
	<b>P-1 ITEM NO</b> 61		<b>PAGE NO:</b> 183		Page 2 of 2

UNCLASSIFIED



# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: SPACE BASED IR SENSOR PROGRAM SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
MISSION CONTROL STATION BACKUP (MCSB)				(\$94,713)										
PRIME MISSION EQUIPMENT	A			\$24,500										
GOVERNMENT FURNISHED EQUIPMENT (GFE)	A			\$9,950										
OTHER GOVERNMENT COSTS				\$10,750										
ENGINEERING LABOR				\$40,013										
SYSTEM ENGINEERING				\$9,500										
SBIRS MOBILE SYSTEM & FIXED SITE COMM ELECTRONIC UPGRADES	A									\$1,689			\$2,217	
MGT DPSS UPGRADE	A									\$2,000			\$2,000	
TOTALS:				\$94,713						\$3,689			\$4,217	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 61					<b>PAGE NO:</b> 184					
												Page 1 of 1		

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: SPACE BASED IR SENSOR PROGRAM SPACE						
ITEM / 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	
MISSION CONTROL STATION BACKUP (MCSB)										
PRIME MISSION EQUIPMENT										
FY2004			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN SPACE COMPANY/SUNNYVALE, CA	May-04	Sep-07			
GOVERNMENT FURNISHED EQUIPMENT (GFE)										
FY2004(3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Nov-03	Sep-07			
SBIRS MOBILE SYSTEM & FIXED SITE COMM ELECTRONIC UPGRADES										
FY2006(1,4)			AFSPC/SMC	OTH/OTH	UNKNOWN	Jan-06	Jan-07	Yes		
FY2007(1,4)			AFSPC/SMC	OTH/OTH	UNKNOWN	Jan-07	Jan-08	Yes		
MGT DPSS UPGRADE										
FY2006(2,4)			AFSPC/SMC	OTH/OTH	UNKNOWN	Jan-06	Jan-07	No	Nov-05	
FY2007(2,4)			AFSPC/SMC	OTH/OTH	UNKNOWN	Jan-07	Jan-08	No	Nov-06	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 61				<b>PAGE NO:</b> 185	Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE BASED IR SENSOR PROGRAM SPACE						
ITEM / 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>MCSB procurement is a modification to the SBIRS Engineering and Manufacturing Development (EMD) contract awarded in November 1996.</p> <p>(1) Contract method, and contract type for the DPSS upgrade is TBD. Sustainment contract period of performance ends Feb 05 for the Mobile Ground System.</p> <p>(2) Sustainment contract period of performance ends Feb 05 for the Mobile Ground System.</p> <p>(3) Contractors include Powerware Corp, and Lockheed Martin Space Company, contract award November 1996.</p> <p>(4) Unit costs and quantities vary due to multiple types of computer hardware being procured.</p>										
<b>P-1 ITEM NO</b> 61			<b>PAGE NO:</b> 186			Page 2 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$10,255	\$10,232	\$9,096	\$5,963	\$5,481	\$5,129	\$8,750	\$66,290	
<p><b>Description:</b></p> <p>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 (UE). The satellites broadcast high-accuracy data using precisely synchronized signals that are received and processed by UE 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. Air Force (AF) UE consists of Precision Lightweight GPS Receivers (PLGR) and all in-view receivers such as the Defense Advanced GPS Receiver (DAGR). FY06 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.). The development funding for Navstar GPS is in Program Element 0305164F, GPS User Equipment.</p> <p>1. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR): FY06 funds provide warrantee coverage for PLGR, a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information. This nondevelopmental item supports Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordnance Disposal Teams, Security Police, and Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for anti-jam communications systems. The AF has lead service responsibility that includes Army, Navy, and Marines for PLGR procurement.</p>									
	<b>P-1 ITEM NO</b> 62		<b>PAGE NO:</b> 187		Page 1 of 2				

**UNCLASSIFIED**

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE			
<b>Description (continued):</b>					
<p>2. KEY DATA LOADING INSTALLATION FACILITY (KLIF)/GPS SECURITY DEVICE: FY06 funding provides for the programming of black key (cryptographic) algorithms into Selective Availability Anti-Spoofing Module (SAASM) chips, providing an accurate positioning solution for GPS users using secure equipment. FY06 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.</p>					
<p>3. DEFENSE ADVANCED GPS RECEIVER (DAGR): DAGR, the follow-on to the PLGR, will be the next generation handheld self-contained GPS receiver with precise positioning using SAASM. It will be interoperable with existing PLGR interfaces and support equipment so present integration and support capabilities are minimally affected. DAGR will be primarily used in the stand alone mode, in wheeled and tracked vehicles, in airborne and air-drop operations, and in weapons integration. The AF has lead service responsibility that includes Army, Navy, and Marines for DAGR procurement. FY06 funding procures military secure handheld GPS receivers (i.e., DAGRs) for US forces in order for them to prosecute their mission.</p>					
<p>4. HANDHELD TESTING SUPPORT: FY06 funding provides testing support for user equipment. Testing includes engineering change proposals and product improvements for DAGR.</p>					
	<b>P-1 ITEM NO</b> 62		<b>PAGE NO:</b> 188		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: NAVSTAR GPS SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		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)				\$5						\$500				\$50
KLIF/GPS SECURITY DEVICE				\$7,355			\$7,581			\$3,881				\$1,874
DAGR	A			\$2,678			\$2,451			\$4,499				\$3,857
HANDHELD TESTING SUPPORT				\$217			\$200			\$216				\$182
TOTALS:				\$10,255			\$10,232			\$9,096				\$5,963
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
P-1 ITEM NO 62					PAGE NO: 189					Page 1 of 1				

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE						
ITEM / 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										
FY2004(1)			AFSPC/SMC	OPT/FP W/OPT	ROCKWELL COLLINS/CEDAR RAPIDS, IA	Mar-04	Jun-04			
FY2005(1)			AFSPC/SMC	OPT/FP W/OPT	ROCKWELL COLLINS/CEDAR RAPIDS, IA	Jan-05	Jun-05			
FY2006(1)			AFSPC/SMC	OPT/FP W/OPT	ROCKWELL COLLINS/CEDAR RAPIDS, IA	Jan-06	Jun-06	Yes		
FY2007(1)			AFSPC/SMC	OPT/FP W/OPT	ROCKWELL COLLINS/CEDAR RAPIDS, IA	Jan-07	Jun-07	Yes		
<p><b>Remarks:</b></p> <p>Cost information is in actual dollars. Unit cost will vary depending on accessories included in the total quantities purchased by other services.</p> <p>(1) Option is downselect from FY03 Rockwell Collins, Cedar Rapids, IA, and Raytheon Systems, El Segundo, CA, C/FFP basic contract awarded Oct 02.</p>										
			<b>P-1 ITEM NO</b> 62			<b>PAGE NO:</b> 190	Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$10,706	\$7,525	\$9,396	\$13,450	\$16,449	\$27,802	\$21,924	\$10,527
<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). (Reference the Research, Development, Test, and Evaluation Budget Justification Exhibits for Program Element 0305913F).</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> <p>1. ICADS UPGRADE: FY06 funds ICADS IIF upgrades with the purchase of on-site and depot computer equipment for the two delivered ICADS IIF systems and purchase of additional data processors for these delivered systems to support the DSP Neutron Gamma processing. It includes purchases of</p>								
	<b>P-1 ITEM NO</b> 63		<b>PAGE NO:</b> 191			Page 1 of 2		

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE			
<b>Description (continued):</b> Radiation Detection Data Processors (RDPs) to replace seven ARDUs, upgrade of RDP testbed to final configuration and initial on-site and depot computer equipment for the RDP.  2. GNT UPGRADES: FY06 funds GNT IIF upgrades with the purchase of data processors and workstations, and initial on-site and depot computer equipment.  3. SPACE and ATMOSPHERIC BURST REPORTING SYSTEM (SABRS) ON SPACE-BASED INFRARED SYSTEM (SBIRS): No FY06 funding is requested.					
	<b>P-1 ITEM NO</b> 63		<b>PAGE NO:</b> 192		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ICADS UPGRADE	A		\$8,112		\$4,284		\$5,846		\$8,718
GNT UPGRADE	A		\$2,594		\$3,241		\$3,550		\$3,832
SABRS ON SBIRS	A								\$900
<b>TOTALS:</b>			\$10,706		\$7,525		\$9,396		\$13,450

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 63		<b>PAGE NO:</b> 193	Page 1 of 1
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NUDET DETECTION SYSTEM SPACE						
ITEM / 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										
FY2004(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-03	Jun-05			
FY2005(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-04	Jun-06			
FY2006(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-05	Jun-07	Yes		
FY2007(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-06	Jun-08	Yes		
GNT UPGRADE										
FY2004(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-03	Jun-05			
FY2005(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-04	Jun-06			
FY2006(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-05	Jun-07	Yes		
FY2007(1-2)			AFSPC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB/ALBUQUERQUE, NM	Dec-06	Jun-08	Yes		
SABRS ON SBIRS										
FY2007			AFSPC/SMC	MIPR/OTH/OTH	UNKNOWN	Nov-06	Sep-08	No	Oct-06	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 63			<b>PAGE NO:</b> 194				Page 1 of 2

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM SPACE						
ITEM / 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) 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> 63			<b>PAGE NO:</b> 195					Page 2 of 2	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$48,486	\$43,328	\$51,778	\$86,487	\$67,366	\$67,337	\$65,035	\$68,077	
<p><b>Description:</b></p> <p>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.</p> <p>This project procures integrated mission critical electronics and telecommunications equipment for aging C3 and range elements of the AFSCN. These technological upgrades will ensure decision dominance which provides predictive battle space awareness and shortens the Find, Fix, Track, Target, Engage, and Assess kill chain. Principal efforts include:</p> <p><b>NETWORK OPERATIONS UPGRADES:</b> These efforts upgrade network management services to include AFSCN resource monitoring and scheduling capabilities. Network Operations Upgrades use integrated and pre-deployment-tested commercial hardware and software to the maximum extent possible. FY06 funds will procure equipment for a resource scheduling system upgrade.</p> <p><b>RANGE AND COMMUNICATIONS UPGRADES:</b> These efforts transition the current, point-to-point AFSCN communications network to a distributed communications system that integrates government and commercial networks, and upgrades aging equipment at the Operational Control Nodes and RTSs.</p>									
	<b>P-1 ITEM NO</b> 64		<b>PAGE NO:</b> 196		Page 1 of 2				

**UNCLASSIFIED**

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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> <p>Several standardization efforts are being implemented to improve and modernize the communications and range segment elements of the AFSCN, including integrated pre-deployment hardware/software validation, antenna replacements, and equipment upgrades at the RTSs. This program significantly improves AFSCN capacity, reliability, data quality, and user access. FY06 funds procure additional antenna systems and associated communications equipment to continue the upgrades.</p> <p>INTERIM SUPPLY SUPPORT: FY06 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 acquisition process) for the Satellite Control Network Contract and to transition to government supply support.</p> <p>OTHER CONTRACTOR SUPPORT: FY06 funds will 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.</p>					
	<b>P-1 ITEM NO</b> 64		<b>PAGE NO:</b> 197		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005						
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE											
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007					
		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			\$2,097			\$6,679			\$5,900			\$3,000			
RANGE & COMMUNICATIONS UPGRADES	A			\$38,293			\$29,357			\$36,508			\$74,444			
INTERIM SUPPLY SUPPORT				\$2,023			\$755			\$2,447			\$1,710			
OTHER CONTRACTOR SUPPORT				\$6,073			\$6,537			\$6,923			\$7,333			
TOTALS:		2		\$48,486	2		\$43,328	2		\$51,778	2		\$86,487			
<b>Remarks:</b> Total Cost information is in thousands of dollars.																
					<b>P-1 ITEM NO</b> 64							<b>PAGE NO:</b> 198			Page 1 of 1	

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE						
ITEM / 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(1)										
FY2004(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Feb-04	Apr-04			
FY2005(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Jan-05	May-05			
FY2006(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Jan-06	May-06	Yes		
FY2007(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Jan-07	May-07	Yes		
RANGE AND COMMUNICATIONS UPGRADES(1)										
FY2004(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Jan-04	Jun-04			
FY2005(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Jan-05	Jun-05			

	<b>P-1 ITEM NO</b> 64		<b>PAGE NO:</b> 199	Page 1 of 2
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# UNCLASSIFIED



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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE						
ITEM / 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	
RANGE & COMMUNICATIONS UPGRADES(1)										
FY2006(2)			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS/COLORADO SPRINGS, CO	Dec-05	Apr-06	Yes		
FY2007(3)			AFSPC/SMC	OPT/CPAF	MULTIPLE	Dec-06	Apr-07	Yes		
<b>Remarks:</b>										
<p>(1) Quantities and unit costs vary due to different types/configurations of equipment being procured. Delivery dates reflect first delivery date of multiple deliveries.</p> <p>(2) Option to prior year Satellite Control Network Contract (SCNC) baseline awarded in Dec 01 to Honeywell Technology Solutions, Colorado Springs, CO.</p> <p>(3) In addition to SCNC baseline contract, an additional FFP contract is available to procure replacement network equipment for which specs are now available, for a classified user. Multiple awards and delivery dates to be awarded to existing contracts; award/delivery dates reflect date of first award and delivery.</p>										
			<b>P-1 ITEM NO</b> 64			<b>PAGE NO:</b> 200				Page 2 of 2

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$82,239	\$104,051	\$114,189	\$121,863	\$142,534	\$103,588	\$105,608	\$107,110	
<p><b>Description:</b></p> <p>The Eastern Range at Patrick Air Force Base, 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 necessary to safely conduct national security: civil and commercial spacelift operations; intercontinental and sea-launched ballistic missile evaluations; and aeronautical and guided weapons tests. As a result, the SLRS supports Air Force (AF) concepts of operations for: Global Mobility, Nuclear Response, Space and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance, and Global Strike. Additionally, the SLRS addresses specific capabilities in terms of: Force Projection, Rapid Global Delivery, and Spacelift. Many of the range assets are outdated, unreliable, inefficient, and costly to operate and maintain.</p> <p>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 will improve range responsiveness to launch demands, enhance range safety, standardize logistics support, and reduce operations and maintenance costs. Funding for the associated RDT&amp;E efforts is in Budget Activity 7, Operational Systems Development, PE 35182F, Project 674137.</p> <p>The AF is implementing range modernization and recapitalization through two complementary contracts. First, the Range Standardization and Automation (RSA) Phase IIA contract modernizes the control/display and communication segments of the ranges. Second, the Spacelift Range System Contract (SLRSC) modernizes the instrumentation segment of the ranges, and engineers and executes a proactive recapitalization process to replace hardware no longer efficient or sustainable. Recapitalization efforts identified herein are representative of the projects to be pursued during execution years, since changing operational requirements/priorities and Reliability, Maintainability, and Availability status will determine the final list of projects to be pursued during each execution year.</p>									
	<b>P-1 ITEM NO</b> 65		<b>PAGE NO:</b> 201		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE			
<b>Description (continued):</b> Following are details of the FY06 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. The Air Force has restructured the contract and added funding in FY06, FY07 and FY08 to complete these priority efforts.  FY06 funds will pay for integration, testing, and refinements to meet operational acceptance requirements for planning and scheduling, digital telemetry, communications, and weather modernization efforts. Also, they will buy Interim Contractor Support and Interim Supply Support, such as: support services, the spares transition package, any required reprocurement data, and transition common spares.  2. SPACELIFT RANGE SYSTEM CONTRACT: The SLRSC completes range modernization efforts and implements proactive recapitalization efforts. It procures an integrated suite of automated instrumentation with associated test and interface equipment, downrange remote control assets, and follow-on control and display and communications systems to complete the modernization effort. Also, it executes recapitalization projects to fix equipment deficiencies, replace aging equipment, control obsolescence, reduce reliance on diminishing manufacturing resources, eliminate single points of failure, and reduce support costs. 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. MODERNIZATION EQUIPMENT: FY06 modernization funds will procure test, interface, and control equipment necessary to link instrumentation to the network segment and control and display segment to implement the SLRS architecture, including activation of the Western Range Operations Control Center. Also, funds will pay for the shut down of legacy systems to enable operational acceptance and activation of modernized systems under both contracts. Additionally, funds will pay for ISS which includes support services, the spares transition package, any required reprocurement data, and transition common spares.					
	<b>P-1 ITEM NO</b> 65		<b>PAGE NO:</b> 202		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE			
<b>Description (continued):</b> <p>b. RECAPITALIZATION: FY06 funds will pay for recapitalization projects to include: radar equipment replacement; replacement of lead air-filled cables; replacement of clock monitoring system; upgrade of data transfer systems for launch complexes; upgrade of command remoting system; replacement of launch pad lightning warning system; addition of mobile command transmitter docking system; elimination of command communications single points of failure; upgrade of optical focus and resolution evaluation capability; and upgrade of local video distribution system. Additionally, FY06 funds will pay for ISS, to include: support services, the spares transition package, any required reprourement data, and transition common spares.</p> <p>3. OTHER CONTRACTOR SUPPORT: FY06 funds will pay for other contractor support to the System Program Office to include: engineering, cost estimating, contract reconciliation, configuration management, information technology support, and other similar efforts.</p> <p>4. The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$3.5M to this program.</p>					
	<b>P-1 ITEM NO</b> 65		<b>PAGE NO:</b> 203		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: SPACELIFT RANGE SYSTEM SPACE								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		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				{\$26,271}			{\$27,646}			{\$20,787}			{\$19,095}
MODERNIZATION EQUIPMENT	A			\$13,817			\$15,155			\$10,850			\$5,691
INTERIM CONTRACTOR SUPPORT				\$11,841			\$12,132			\$9,561			\$13,404
INTERIM SUPPLY SUPPORT				\$613			\$359			\$376			
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)				{\$42,882}			{\$63,154}			{\$79,932}			{\$88,758}
MODERNIZATION EQUIPMENT	A			\$13,006			\$13,768			\$16,513			\$17,960
MODERNIZATION EQUIPMENT	A												
RECAPITALIZATION				\$20,566			\$39,032			\$52,285			\$60,971
INTERIM SUPPLY SUPPORT				\$3,737			\$5,424			\$6,314			\$3,737
RECAP INTERIM SUPPLY SUPPORT				\$5,573			\$4,930			\$4,820			\$6,090

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: SPACELIFT RANGE SYSTEM SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
OTHER CONTRACTOR SUPPORT				{\$13,086}			{\$13,251}			{\$13,470}			{\$14,010}	
PROGRAM SUPPORT	A			\$13,086			\$13,251			\$13,470			\$14,010	
TOTALS:				\$82,239			\$104,051			\$114,189			\$121,863	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 65					<b>PAGE NO:</b> 205					

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: SPACELIFT RANGE SYSTEM SPACE						
ITEM / 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										
RSA PHASE IIA(1-2)										
MODERNIZATION EQUIPMENT										
FY2004(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/SANTA MARIA, CA	Nov-03	Dec-03			
FY2005(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/SANTA MARIA, CA	Oct-04	Dec-04			
FY2006(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/SANTA MARIA, CA	Oct-05	Dec-05	Yes		
FY2007(1-2)			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN/SANTA MARIA, CA	Oct-06	Dec-06	Yes		
SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)(1,3)										
MODERNIZATION EQUIPMENT										
FY2004(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/CAPE CANAVERAL, FL	Apr-04	Aug-04			
FY2005(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/CAPE CANAVERAL, FL	Oct-04	Feb-05			
FY2006(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/CAPE CANAVERAL, FL	Oct-05	Feb-06	Yes		
FY2007(1,3)			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES/CAPE CANAVERAL, FL	Oct-06	Feb-07	Yes		
		<b>P-1 ITEM NO</b> 65				<b>PAGE NO:</b> 206		Page 1 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE						
ITEM / 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	
OTHER CONTRACTOR SUPPORT(4)										
PROGRAM SUPPORT										
FY2004(4)			AFSPC/SMC	OPT/OTH	MULTIPLE	Oct-03	Oct-03			
FY2005(4)			AFSPC/SMC	OPT/OTH	MULTIPLE	Oct-04	Oct-04			
FY2006(4)			AFSPC/SMC	OPT/OTH	MULTIPLE	Oct-05	Oct-05	Yes		
FY2007(4)			AFSPC/SMC	OPT/OTH	MULTIPLE	Oct-06	Oct-06	Yes		
<p><b>Remarks:</b></p> <p>(1) The quantities vary due to numerous increments of products being delivered across fiscal years. Additionally, 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 fiscal year.</p> <p>(2) The 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.</p> <p>(3) The SRLSC, 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.</p>										
			<b>P-1 ITEM NO</b> 65			<b>PAGE NO:</b> 207	Page 2 of 3			

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM SPACE						
ITEM / 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) There are multiple Program Support contracts of various types with several contractors in each FY. Award dates and first delivery dates represent the first of several in each FY.</p>										
	<b>P-1 ITEM NO</b> 65			<b>PAGE NO:</b> 208					Page 3 of 3	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$44,313	\$14,941	\$28,720	\$76,131	\$128,685	\$120,243	\$131,921	\$137,984	
<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. Refer to Research, Development, Test, &amp; Evaluation (RDT&amp;E) Budget Justification Exhibits for Program Element 0303601F for more information on terminal development efforts, except where otherwise noted. The decrease in FY06 funding from last year's submission is due to recompeting the Ground Multi-band Terminal (GMT) production contract as a Non-Developmental Item solution.</p> <ol style="list-style-type: none"> <li>1. SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T) UPGRADE: No FY06 funds are requested.</li> <li>2. SUPER HIGH FREQUENCY (SHF) TERMINALS: SHF terminals operate over the Defense Satellite Communications System (DSCS) and Wideband Gapfiller Satellite (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 procuring terminal equipment for selected locations that form part of the ground segment for large terminals. FY06 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 stations, and to leverage WGS capabilities and interoperability with the Army, Navy, AF, and the State Department. Equipment procurement includes ground terminal modernization kits, fiber optic modems, patch panels, timing sources, interconnect facility links, and equipment facilities.</li> </ol>									
	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 209		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE			
<b>Description (continued):</b>					
<p>3. GLOBAL BROADCAST SERVICE (GBS): This AF-led joint program implements a worldwide high-capacity satellite broadcast information system to provide a continuous, one-way, high-speed, high-volume flow of classified and unclassified data and imagery to garrisoned, deployed, or moving forces. GBS reduces DoD reliance on costly leased commercial satellite communications. GBS Receive Suites, Satellite Broadcast Managers, and Theater Injection Points will 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. See also the RDT&amp;E Budget Item Justification Sheet for Program Element 0603840F.</p> <p>a. GBS RECEIVE SUITES: The receive suites link users to information sources via GBS, offering near-worldwide service. FY06 funds procure ground receive suites, upgrades, integration and installation, training, technical manual updates, systems engineering, and program support.</p> <p>b. THEATER INJECTION POINTS (TIP): No FY06 funds are requested.</p> <p>c. WIDEBAND GAPFILLER SATELLITE (WGS) TRANSMIT SUITE: No FY06 funds are requested.</p> <p>4. GROUND MULTIBAND TERMINAL (GMT): 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 Antennas. FY06 funds procure first article units to support system operational test and evaluation and production decision preparation.</p> <p>5. COMMAND and CONTROL SYSTEM - CONSOLIDATED (CCS-C): CCS-C will provide MILSATCOM satellite command and control capabilities after the AF Satellite Control Network CCS basic sustainment contract ends 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). FY06 funds sustain the commercial-off-the-shelf</p>					
	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 210		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE			
<b>Description (continued):</b> hardware and software until system turnover to sustainment. See also Budget Project Activity Code 644870 in the RDT&E Budget Item Justification Exhibit for Program Element 0603854, Wideband Gapfiller System (Space).					
6. HIGH DATA RATE RADIO FREQUENCY (HDR-RF) GROUND TERMINALS: No FY06 funds are requested.					
7. MILSATCOM SUSTAINMENT MODIFICATIONS: Provides minor modifications for MILSATCOM systems currently in sustainment and those currently fielding. FY06 funds procure a tape drive, printer, and interface for the MILSTAR Satellite Mission Control System.					
	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 211		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: MILSATCOM SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
1. SMART-T				{\$3,680}										{\$600}
TERMINALS	A			\$1,600										
PROGRAM SUPPORT				\$428										
WARRANTY				\$400										
ANCILLIARY EQUIP	A			\$1,252										
SYSTEM ENGINEERING														\$600
2. SHF TERMINALS				{\$2,325}			{\$3,500}			{\$3,244}				{\$9,040}
SHF/JRSC	A			\$2,325			\$3,500			\$3,244				\$9,040
3 GBS				{\$30,105}			{\$8,178}			{\$14,874}				{\$529}
A. GBS RECEIVE SUITES				{\$19,334}			{\$963}			{\$14,874}				{\$529}
RECEIVE SUITES	A			\$10,473			\$553			\$10,140				
UPGRADES				\$5,142						\$720				
INTEGRATION & INSTALLATION				\$1,860			\$410			\$2,007				

	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 212		Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: MILSATCOM SPACE								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
SYSTEM ENGINEERING				\$1,023						\$1,205			\$308
PROGRAM SUPPORT				\$836						\$802			\$221
B. TIPS	A						\$7,215						
C. WGS TRANSMIT SUITES	A			\$10,771									
4. GROUND MULTIBAND TERMINALS							{\$1,599}			{\$10,060}			{\$52,007}
GROUND TERMINALS	B						\$1,599			\$5,395			\$47,919
SYSTEM ENGINEERING										\$1,987			\$732
PROGRAM SUPPORT										\$2,678			\$3,356
5. CCS-C				{\$8,203}			{\$1,664}			{\$290}			
HARDWARE/SOFTWARE STRINGS	A			\$8,203			\$1,664			\$290			
6. HIGH DATA RATE RADIO FREQUENCY GROUND TERMINALS													{\$13,700}
HDR RF GROUND TERMINALS	A												\$11,757
SYSTEM ENGINEERING													\$1,052

	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 213	Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: MILSATCOM SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
PROGRAM SUPPORT														\$891
7. MILSATCOM SUSTAINMENT MODIFICATIONS										{\$252}				{\$255}
MILSTAR SCMS MODS	A									\$252				\$255
TOTALS:				\$44,313			\$14,941			\$28,720				\$76,131
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
					<b>P-1 ITEM NO</b> 66									
					<b>PAGE NO:</b> 214									
										Page 3 of 3				

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MILSATCOM SPACE						
ITEM / 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										
TERMINALS										
FY2004			AFMC/ESC	MIPR/FFP	ARMY/ARMY CECOM/RAYTHEON/MARLB OROUGH, MA	Jan-04	Aug-04			
ANCILLIARY EQUIP										
FY2004			AFMC/ESC	MIPR/FFP	ARMY/ARMY CECOM/RAYTHEON/MARLB OROUGH, MA	Jan-04	Aug-04			
2. SHF TERMINALS										
SHF/JRSC										
FY2004(1)			AFMC/ESC	MIPR/C/FFP	ARMY/MULTIPLE	Feb-04	Apr-04			
FY2005(1)			AFMC/ESC	MIPR/C/FFP	MULTIPLE	Dec-04	Feb-05			
FY2006(1)			AFMC/ESC	MIPR/C/FFP	MULTIPLE	Dec-05	Feb-06	Yes		
FY2007(1)			AFMC/ESC	MIPR/C/FFP	MULTIPLE	Dec-06	Feb-07	Yes		
3 GBS										

	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 215	Page 1 of 4
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# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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ITEM / 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
A. GBS RECEIVE SUITES									
RECEIVE SUITES									
FY2004(2-3)			AFMC/ESC	OPT/FFP	RAYTHEON/RESTON, VA	Feb-04	Aug-04		
FY2005(2-3)			AFMC/ESC	OPT/FFP	RAYTHEON/RESTON, VA	Mar-05	Sep-05	Yes	
FY2006(2-3)			AFMC/ESC	OPT/FFP	UNKNOWN	Jan-06	Jun-06	Yes	
B. TIPS									
FY2005			AFMC/ESC	MIPR/OPT/FFP	RAYTHEON/RESTON, VA	Mar-05	Dec-05	Yes	
C. WGS TRANSMIT SUITES									
FY2004(2)			AFSPC/SMC	OPT/FFP	RAYTHEON/RESTON, VA	Mar-04	Sep-04		
4. GROUND MULTIBAND TERMINALS									
GROUND TERMINALS									
FY2005(4)			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Apr-05	Apr-05	Yes	
FY2006			AFMC/ESC	OPT/FFP	UNKNOWN	Nov-05	Aug-06	Yes	

	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 216	Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Nov-06	Mar-07	Yes		
5. CCS-C										
HARDWARE/SOFTWARE STRINGS										
FY2004(5)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./LANHAM, MD	Nov-03	Nov-03			
FY2005(5)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./LANHAM, MD	Nov-04	Nov-04			
FY2006(5)			AFSPC/SMC	OPT/FFP	INTEGRAL SYS INC./LANHAM, MD	Nov-05	Apr-06	Yes		
6. HIGH DATA RATE RADIO FREQUENCY GROUND TERMINALS										
HDR RF GROUND TERMINALS										
FY2007			AFMC/ESC	C/FFP	UNKNOWN	Nov-06	Aug-07	No	Aug-06	
7. MILSATCOM SUSTAINMENT MODIFICATIONS										
MILSTAR SCMS MODS										
FY2006			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/SUNNYVALE, CA	Feb-06	May-07	Yes		

	<b>P-1 ITEM NO</b> 66		<b>PAGE NO:</b> 217	Page 3 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007			AFSPC/SMC	SS/FFP	LOCKHEED MARTIN/SUNNYVALE, CA	Feb-07	May-08	Yes		
<p><b>Remarks:</b></p> <p>(1) Multiple contractors through multiple government agencies (GSA, DLA, NSA, Army CECOM, or individual bases depending on requirements) with multi contract award/delivery dates. Award/delivery dates reflect first award and delivery dates.</p> <p>(2) Base contract awarded in Nov 97 (8 option years).</p> <p>(3) Unit costs vary because of different types/configurations of equipment being used.</p> <p>(4) Base contract will be awarded in 2005. Options anticipated, but quantity not determined.</p> <p>(5) Base contract awarded in Mar 02 (8 option years)</p>										
			<b>P-1 ITEM NO</b> 66			<b>PAGE NO:</b> 218	Page 4 of 4			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$24,416	\$16,196	\$25,063	\$25,179	\$26,319	\$14,341	\$33,583	\$83,222
<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 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 installed in military platforms. 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 for Navstar GPS is in Program Element 0305165F, GPS Space &amp; Control.</p> <p style="margin-left: 40px;">a. HIGH POWER AMPLIFIER (HPA) (MOD #S219947): No FY06 funds are requested.</p>								
	<b>P-1 ITEM NO</b> 67		<b>PAGE NO:</b> 219				Page 1 of 5	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b>					
b. BLACK SHELTER EQUIPMENT UPGRADE (MOD #S5000102401): No FY06 funds are requested.					
c. AUTOMATED MASTER CONTROL STATION (AMCS) COMMUNICATIONS INFRASTRUCTURE SUPPORT UPGRADE: No FY06 funds are requested.					
d. OCS V6 SITE MODIFICATION [Satellite-Based Navigation Accuracy Performance Model (SNAPM)/Selective Availability Anti-Spoofing Module (SAASM)]: No FY06 funds are requested.					
e. MONITOR STATION ENVIRONMENTAL SENSOR (MOD #S5005219609): No FY06 funds are requested.					
f. MONITOR STATION (MS) ANTENNA REPLACEMENT (MOD #S1100416101): This modification replaces the existing 20-year old Monitor Station (MS) Vega antennas. Based on the age of the Vega antennas, it is critical that they be replaced in the near future to avoid extended MS downtime. Repair and/or replacement of the Low Noise Amplifier (LNA) in the existing Vega antenna is becoming cost prohibitive and will ultimately become unworkable. Recent failures of the Vega LNAs at Hawaii and Ascension Island are indicative of increased maintenance problems in the future. The LNA is a single point failure that takes the MS down. Also, there is currently no spare Vega antenna to replace one damaged due to a catastrophic event. Loss of a Vega antenna would result in a lengthy MS outage until a replacement could be fabricated (six months minimum). FY06 funding is requested for procurement and installation of replacement antennas.					
g. OCS COTS UPGRADE: This modification procures replacement of existing GPS OCS commercial equipment that has become obsolete/unworkable. FY06 funding will 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.					
h. RADOME REPLACEMENT: This modification replaces GPS Radomes that were installed at Cape Canaveral, FL, Ascension Island,					
		<b>P-1 ITEM NO</b> 67			<b>PAGE NO:</b> 220
				Page 2 of 5	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b> <p>Kwajalein and Diego Garcia in 1981 and 1982. The design life for the GPS Radome is 20 years and varies depending on geographic location and weather conditions. All radomes were completely stripped, caulked and painted in 2000 and Depot Inspectors stated the radomes were in reasonably good condition, but should be replaced starting in 2006. GPS Radomes have exceeded their 20-year design life and high winds associated with storms may cause radome damage resulting in limited ground antenna operation or complete failure. Damage to the exposed antenna may occur requiring an Emergency Depot-Level Maintenance team to repair the GPS antenna. Risk of radome panel failure will increase to an unacceptable level starting in 2006, reducing GPS ground antenna reliability. FY06 funding is requested for replacement and installation of radomes.</p> <p>2. 474N SEA-LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM: The 474N SLBM Detection and Warning System consists of the AN/FPQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and the AN/FPS-123 PAVE PAWS System (Phased Array Radars for SLBM Detection and Warning System). The primary mission 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, PAVE PAWS and PARCS 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.</p> <p>a. AN/FPQ-16 PERIMETER ACQUISITION RADAR ATTACK CHARACTERIZATION SYSTEM (PARCS): The AN/FPQ-16 Radar Sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier Air Station (AS), ND. The PARCS 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. This one-of-a-kind system was originally developed in the early 1970's, and has operated continuously since 1977.</p> <p>(1) PARCS DISPLAY UPGRADE, MOD #S532492: No FY06 funds are requested.</p>					
	<b>P-1 ITEM NO</b> 67		<b>PAGE NO:</b> 221		Page 3 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE		
<b>Description (continued):</b> <p>(2) PARCS MAINTENANCE AND DIAGNOSTICS SUBSYSTEM (M&amp;DS) UPGRADE, MOD #S532496: No FY06 funds are requested.</p> <p>(3) PARCS EVOLUTIONARY MODERNIZATION: The FY06 PARCS Evolutionary Modernization consists of Mod #10MS-03-003, Mission Software Emulator (RePLACE), Mod #S532491, Data Transmission Controller, and the Frequency Test Set modifications. These modifications replace unsupportable and unreliable system components. This 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 trouble shoot and craft the repair, to establish a new source of supply and repair, or to re-engineer replacement parts. FY06 funds provide for the RePLACE project. FY06 also begins the replacement of the frequency tests sets with engineering and production of the low frequency test set. Interim Supply Support provides initial spares and subsequent repairs by interim contractor support. Program Support consists of other government-direct costs for program office and infrastructure support.</p> <p>3. AN/FSD-3 GEODSS SYSTEM: No FY06 funding is requested.</p> <p>4. AIR FORCE SPACE SURVEILLANCE SYSTEM (AFSSS): AFSSS includes both the Air Force Space Surveillance Fence and Alternate Space Control Center (ASCC). The AFSSS is a segment of the Space Surveillance Network (SSN) which was transferred from the Navy to the Air Force in FY04. The radar generates a radio frequency (RF) "fence" which can detect earth orbiting objects passing through it, out to 15,000 nautical miles. 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 (CMOC), CO. The AFSSS supports Air Force Space Command (AFSPC) mission responsibilities for cataloging and maintenance of satellite payloads and debris, New Foreign Launch (NFL) orbit determination, and collision avoidance.</p> <p>a. MOD #83679P, AFSSS EVOLUTIONARY MODERNIZATION - Very High Frequency (VHF): No FY06 funds are requested.</p>				
	<b>P-1 ITEM NO</b> 67		<b>PAGE NO:</b> 222	Page 4 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b>  b. MOD #83679P, AFSSS S-BAND FENCE: No FY06 funds are requested.  c. TRANSMITTER/RECEIVER SUBSYSTEM REFRESH: FY06 funds provide for continuing sustainment of the ASCC and the Fence system, including replacement of transmitter and receiver antenna components, communications controller infrastructure, and server network and storage infrastructure. Funds also provide for receiver power conditioning equipment and receiver timing distribution system refurbishment. Funds also provide for equipment which will extend the service life of the VHF based system until it can be replaced with a new S-Band Fence (S-Band is a more robust system that can transmit more data at higher speeds). Air Force funding represents 50% of the full funding requirement for the S-Band Fence. Additional funding will be supplied by the Navy to satisfy the Full-Funding requirement. The S-Band upgrade provides a radar system operating in the S-band frequency range to replace the aging AFSSS very high frequency (VHF) "Fence" radar that currently performs detection of orbiting space objects. The S-Band upgrade will provide a radar system with a modern architecture that is capable of detecting more (100,000 objects with S-Band vs. 10,000 objects currently) and much smaller objects (approx. 5cm in the future vs. 30cm currently). The S-Band system will operate with greater accuracy and timeliness to meet warfighter and CRD objectives as well as provide valuable Space Situational Awareness (SSA) data.					
	<b>P-1 ITEM NO</b> 67		<b>PAGE NO:</b> 223		Page 5 of 5

UNCLASSIFIED



# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
NAVSTAR GPS				{\$12,402}			{\$7,681}			{\$13,316}			{\$11,949}
HPA (MOD #S219947)	A			\$4,562									
BLACK SHELTER EQUIP UPGRADE (MOD #S5000102401)	A			\$6,963			\$5,914						
AMCS COMM INFRASTRUCTURE SPT UPGRADE	A			\$877									
OCS V6 SITE MOD	A						\$607						
MONITOR STN ENVIRONMENTAL SENSOR (MOD #S5005219609)	A						\$1,160						
MS ANTENNA REPLACEMENT	A									\$3,000			
OCS COTS UPGRADE	A									\$9,426			\$9,232
RADOME REPLACEMENT	A									\$890			\$2,717
474N SEA LAUNCHED BALLISTIC MISSILE (SLBM), DETECTION AND WARNING SYSTEM				{\$3,603}			{\$3,647}			{\$6,727}			{\$8,185}
PARCS				{\$3,603}			{\$3,647}			{\$6,727}			{\$8,185}
PARCS DISPLAY UPGRADE (MOD #S532492)	A			\$500									
PARCS M&DS UPGRADE (MOD #S532496)	A			\$192									

	<b>P-1 ITEM NO</b> 67	<b>PAGE NO:</b> 224	Page 1 of 2
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# UNCLASSIFIED

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: SPACE MODS SPACE									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
PARCS EVOLUTIONARY MODERNIZATION				{\$2,911}			{\$3,647}			{\$6,727}			{\$8,185}	
DATA TRANSMISSION CONTROLLER, MOD #S532491	A			\$2,856			\$907							
MISSION SOFTWARE EMULATOR (REPLACE), MOD #10MS-03-003	A						\$2,557			\$3,429			\$3,585	
FREQUENCY TEST SETS, MOD	A									\$3,104			\$4,600	
INTERIM SUPPLY ACTIVITY				\$55			\$183			\$194				
AN/FSD-3 GEODSS SYSTEM	A			\$4,651										
AFSSS				{\$3,760}	1		{\$4,868}	1		{\$5,020}	1		{\$5,045}	
MOD #83679P, AFSSS EVOLUTIONARY MODERNIZATION	A			\$2,514										
MOD #83679P, AFSSS S-BAND FENCE	A			\$1,246										
TRANSMITTER/RECEIVER SUBSYSTEM REFRESH	A				1	\$4,868,000	\$4,868	1	\$5,020,000	\$5,020	1	\$5,045,000	\$5,045	
TOTALS:				\$24,416			\$16,196			\$25,063			\$25,179	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 67					<b>PAGE NO:</b> 225					
												Page 2 of 2		

# UNCLASSIFIED

## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2005

**Modification Title and No:** MS Antenna Replacement, MOD #S1100416101

**Models of System Affected:** Operational Control Segment

**Description/Justification:** This mod replaces the existing 20-yr old MS Vega antennas. Based on the age of the antennas, it is critical they be replaced now to avoid extended MS down time. Repair and/or replacement of the low noise amplifier (LNA) in the existing Vega antenna is becoming cost prohibitive & will become unsupported. Recent failure of Vega LNAs at Hawaii & Ascension are indicative of increased maintenance problems in the future. The LNA is a single point failure taking the MS down. There is no spare antenna to replace one damaged during a catastrophe; loss of a Vega antenna would result in a long MS outage until a replacement can be fabricated (6-mo min).

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

FINANCIAL PLAN \$ (in Thousands)	PY		FY2004		FY2005		FY2006		FY2007		FY2008		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>							7	350					7	350
<b>Equipment Kits non-recurring</b>								1105						1105
<b>Engineering Change Orders</b>														
<b>Data</b>								100						100
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>								45						45
<b>Interim Contractor Support</b>														
<b>Other</b>														
<b>Total Procurement Costs</b>							7	1600					7	1600
<b>Hardware Installation</b>														
<b>PY Eqpt (0 kits)</b>														
<b>FY04 Eqpt (0 kits)</b>														
<b>FY05 Eqpt (0 kits)</b>														
<b>FY06 Eqpt (7 kits)</b>								7	1400				7	1400
<b>FY07 Eqpt (0 kits)</b>														
<b>FY08 Eqpt (0 kits)</b>														
<b>Total Installation Costs</b>								7	1400				7	1400
<b>Total Modification Costs</b>								7	3000				7	3000

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

**Admin. Lead-time(After 1 Oct):** 2 Month(s)

**Production Lead-time:** 2 Month(s)

<b>Contract Date:</b>	PY		FY2004		FY2005		FY2006	Jan 06	FY2007		FY2008											
<b>Delivery Date:</b>	PY		FY2004		FY2005		FY2006	Feb 06	FY2007		FY2008											
<b>Installations:</b>	PY	FY2004				FY2005				FY2006				FY2007				FY2008				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input											7											7
Output												4	3									7

**P-1 ITEM NO**  
67

**PAGE NO:**  
226

Page 1 of 1

# UNCLASSIFIED

# UNCLASSIFIED

**INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)** **DATE:** FEBRUARY 2005

**Modification Title and No:** OCS COTS Upgrade **Models of System Affected:** Operational Control Segment

**Description/Justification:** Procure replacement of existing GPS OCS equipment that has become obsolete or unsupported. FY06 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 repair remote site COTS equipment that is no longer supported by the vendor. This will result in lower remote site operational availability.

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

FINANCIAL PLAN \$ (in Thousands)	PY		FY2004		FY2005		FY2006		FY2007		FY2008		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							12	2400	12	2360			24	4760
Equipment Kits non-recurring								3806		3652				7458
Engineering Change Orders														
Data								100		100				200
Training Equipment														
Support Equipment														
Software								1920		1920				3840
Interim Contractor Support														
Other														
<b>Total Procurement Costs</b>							12	8226	12	8032			24	16258
<b>Hardware Installation</b>														
PY Eqpt (0 kits)														
FY04 Eqpt (0 kits)														
FY05 Eqpt (0 kits)														
FY06 Eqpt (12 kits)							12	1200					12	1200
FY07 Eqpt (12 kits)									12	1200			12	1200
FY08 Eqpt (0 kits)														
<b>Total Installation Costs</b>							12	1200	12	1200			24	2400
<b>Total Modification Costs</b>							12	9426	12	9232			24	18658

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

**Contract Date:** PY **FY2004:** Dec 06 **FY2007:** Dec 07 **FY2008:**

**Delivery Date:** PY **FY2004:** Feb 07 **FY2007:** Feb 08 **FY2008:**

Installations:	PY	FY2004				FY2005				FY2006				FY2007				FY2008				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input										6		6		6		6						24
Output												6	6			6	6					24

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$194,666	\$132,112	\$131,120	\$134,275	\$316,188	\$394,259	\$348,308	\$422,737
<p><b>Description:</b></p> <p>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), and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in the Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment supporting worldwide flying operations.</p> <p>1. THEATER-DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: TDC proved to be a critical component of the deployed communications architecture during Operations Enduring and Iraqi Freedom, performing with unprecedented success by providing common-user C4 and information capabilities in a bare-base environment. The TDC program provides telephone/computer networking and message services to deployed Air Force units. TDC supports a wide range of mission areas and users. For both AMC and AFSOC, TDC provides new combat communications capability not previously available but 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.</p> <p>TDC is composed of three components: Lightweight Multiband Satellite Terminals (LMST), 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 base up to the President and Secretary of Defense, using various C4 and Intelligence (C4I) applications and the Tactical Internet. TDC funding supports Wing Initial Communications Packages (WICPs), Air Operations Centers (AOCs), which</p>								
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 228				Page 1 of 7	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> enables the Joint Force Air Component Commander [JFACC] to exercise 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. The Other Than War (OTW) mission has also generated reconstitution requirements for deployed AEF TDC units that return without their equipment because it remained in theater. TDC is an active participant in the GWOT; equipment was/is used extensively in support of both Operations Enduring and Iraqi Freedom. FY06 funding provides for the procurements described in subparagraphs below.  a. LIGHTWEIGHT MULTIBAND SATELLITE TERMINALS (LMSTs): LMSTs are a critical link, providing two-way communications connectivity between deployed bases and command authorities at other locations. LMSTs augment existing X-Band (Super High Frequency [SHF], quick transmission of large amounts of data, less vulnerable to nuclear blackout) tactical satellite terminals and provide a significant increase in capability, leveraging not only military X-band satellite channels and military Ka-bands (Extremely High Frequency [EHF], jam resistant, least vulnerable to nuclear blackout) when available, but also bands available on commercial communications satellites. This alleviates many operational problems since military X-band channels are nearing capacity. The LMST significantly reduces airlift, requiring just 25 percent of a C-130 load versus a full C-130 load to move the terminal it replaces. The LMST has two functional configurations, hub and spoke, as well as two package configurations, trailer and transit case. Funding includes implementation of a spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY06 funds will procure LMSTs and 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 will plug their computer, telephones, and faxes into the backbone provided by ICAP. ICAP provides significant advantages over the legacy system in the areas of bandwidth efficiency, adaptability, and airlift.					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 229		Page 2 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> <p>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. For example, the WICP is the smallest sized unit (C-130 load) designed to provide an immediate communications capability during the initial phase of deployment. As subsequent airlift becomes available, additional packages can be added, building up to a full size, robust package. The legacy system lacked this flexibility, requiring a large portion (six to seven C-130 loads) to be in-place before the system became operational. Funding includes implementation of a spiral upgrade/replacement process to incorporate new communications technologies and capabilities into the baseline. FY06 funds will procure ICAP and direct mission support.</p> <p>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. Formerly an integral part of the ICAP suite, this capability was separated for better management oversight. Funding includes implementation of a spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY06 funds will procure NCC-D capabilities and direct mission support.</p> <p>2. TACTICAL AIR CONTROL PARTY MODERNIZATION (TACP-M): The development funds associated with this program are located in PE 27423F. The TACP-M program enhances the ability of TACPs to interface with joint and multinational forces by replacing aging voice and digital communications and information systems equipment utilized by ACC, USAFE, and PACAF TACPs. TACPs deploy with Army maneuver units and provide the command and control link for Close Air Support, airlift, and reconnaissance. TACP-M provides Global Positioning System (GPS) digital targeting using various Laser Targeting Devices, ultra high frequency, (low speed transmission of smaller amounts of data, highly mobile, most vulnerable to nuclear blackout) satellite communications, data capabilities, process automation, and integrated capabilities to improve operational effectiveness and reduce the risk of fratricide. Without modernization, TACPs will not be interoperable with the US Army's digitized battlefield and processing CAS requests will be delayed, jeopardizing support of ground forces. In FY06, TACP-M received additional funding to support integrating Remote Operations Video Enhanced Receiver (ROVER) IIIs</p>					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 230		Page 3 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> <p>into the TACP Vehicular Communication System. ROVER IIIs will allow aircraft and Unmanned Aerial Vehicles (UAVs), equipped with like equipment (ROVER transmitters), the capability to transmit streaming video of targets to TACP ground units. The TACP-M program is an active participant in the GWOT and continues to significantly increase the mission effectiveness of the TACPs during Operations Enduring and Iraqi Freedom.</p> <p>The TACP-M weapon system is comprised of four main components. The components listed below and depicted on Exhibit P-5 are representative of the types of Tactical C-E equipment required to perform TACP mission-critical capabilities and maintain operational effectiveness. Due to TACP's active participation in the GWOT and GWOT's direct impact on user priorities, components procured during program execution may change to support user demand and mission-critical needs. Prime mission equipment is as follows:</p> <ul style="list-style-type: none"><li>a. <b>LASER TARGETING DEVICES (LTDs):</b> Provides target locations and observation to reduce the incidents of fratricide. FY04 received \$200K for recapitalization of equipment used in the global war on terrorism.</li><li>b. <b>COMPUTERS:</b> Ruggedized computers with GPS functionality, along with information software to provide gateway functionality and to display situational awareness imagery and messages in the battlefield environment.</li><li>c. <b>MANPACK/HANDHELD RADIOS:</b> Multiband radios capable of providing the required communication connectivity necessary to perform the TACP mission and reduce the overall deployable footprint of dismounted TACP operations.</li><li>d. <b>ROVER/JTRS Cluster 1 VEHICULAR COMMUNICATIONS SYSTEMS (VCS):</b> Development funding for VCS (consists of JTRS Cluster 1 radio, ROVER III, ancillary equipment and integration) is in PE 27423F, Advanced Communications Systems. FY06 funding procures the final JTRS Cluster 1 Low Rate Initial Production quantity buy. FY06 funding also procures ROVER III capability (consists of hardware, e.g. radio receivers, ancillary equipment and integration).</li></ul>					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 231		Page 4 of 7

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> <p>3. JOINT TACTICAL RADIO SYSTEM (JTRS): Development funding for JTRS is in Program Element 0604280F, Joint Tactical Radio Systems. JTRS represents one of the most ambitious multiservice tactical communications initiatives. The system 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. JTRS will form the foundation of radio frequency information transmission for Joint Vision 2020. JTRS will eventually supersede all existing tactical radios through the services' migration plans and will introduce new capabilities to the warfighter. 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. The AF-established acquisition program office is developing AF JTRS requirements for tactical communications (i.e., handheld, vehicular, fixed stations, etc.) by collaborating with other services' JTRS program offices. This program element supports procurement of prime mission equipment types listed below. FY06 funds are planned for procurement of Cluster 1 and Cluster 2 systems.</p> <p>In Nov 03, the AF and Navy Service Acquisition Executives decided to foster commonality by merging the AF-led JTRS Airborne Cluster and Navy-led JTRS Maritime/Fixed Station Cluster development efforts. This joint development effort is called Airborne and Maritime/Fixed Station JTRS. Under this arrangement, a joint AF and Navy team will manage the development of a common core radio design that will be the basis for satisfying the airborne, maritime and fixed station domain requirements. To remain consistent with the original intent of both programs, the AF and Navy will equitably cost share the development of the common core radio design, but the Air Force will fund any unique airborne requirements and the Navy will fund any unique Maritime/Fixed Station requirements. This effort will be led initially by an AF Program Manager and Navy Deputy Program Manager with the lead and key managerial positions rotating at predetermined times during the acquisition. The JTRS Defense Acquisition Board endorsed the program merger in Dec 03.</p> <p>a. JTRS CLUSTER 1 VEHICULAR RADIOS: Provides network-centric communications capability to the warfighter for AF ground vehicles. Army is lead Service for JTRS Cluster 1.</p> <p>b. JTRS CLUSTER 2 HANDHELD RADIOS: Provides 1-channel handheld radios for AF ground users. USSOCOM is lead for this enhancement to an existing radio.</p>					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 232		Page 5 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b>  c. JTRS CLUSTER 5: Provides several variants including 2-channel manpack or dismountable radios, and small form-factor radios for various Air Force end users.  4. BATTLEFIELD AIR OPERATIONS KIT (BAO Kit): Provides state-of-the-art C4ISR suite for AFSOF surface combatants. Includes lasers for marking, range finding and target designation, low-light and thermal optics, micro UAV's, universal power supply, self-healing networks, and machine-to-machine targeting. All items are light, compact, and portable for use by dismounted Battlefield Airmen.  a. LASER INTEGRATED TARGET ENGAGEMENT SYSTEM (LITES): Provides an integrated lightweight system with lasers, optics, positioning equipment, and software for Terminal Attack Control (controlling air strikes and other indirect fires). Integrated software formats information for direct machine-to-machine targeting (substantial improvements in range and accuracy of current technology with a huge reduction in weight and size).  b. BATTERY RENEWABLE INTEGRATED TACTICAL ENERGY SYSTEM (BRITES): Improves conventional and unconventional power sources. Currently consists of zinc air-lithium ion hybrid power system (provides enhanced operation time and reduced weight and size, allowing the warfighter to be more responsive, deployable, and agile in fighting the enemy). Spiral into solar cells and fuel cells consists of methanol fuel cell/lithium-ion hybrid power system. Long-term goals are for a wearable multisource, multiuse advanced power source.  c. BATTLEFIELD AIR TARGETING - CAMERA AUTONOMOUS MICRO-AIR VEHICLE (BATCAM): No FY06 funding requested.  d. BATTLEFIELD AIR TARGETING - MANUAL AIDS TO KNOWLEDGE (BATMAN): Provides operator interface between all the machine components through unified visual, auditory, and speech software displays, that serve to optimize users' information portrayal. It also provides a TAC Earplug with 3-D audio capabilities to provide range and bearing of threats. In addition, BATMAN provides a interface that allows the ground combatant to rapidly sift through data to make meaningful decisions; integrates and automates fratricide and collateral damage prevention measures; provides optical recognition software to accelerate target identification; makes references, graphics, report formats and reach-back assistance available in real-time;					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 233		Page 6 of 7

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> provides a Heads-Up Display to access the processor and hard drive while on the move; and provides integrated panoramic night vision goggles with high-performance laser filters.  e. SPECIAL OPERATIONS TACTICAL NETWORK (SOFTNET): Provides a lightweight, robust, secure, self-healing voice + data relay network. The SOFTNET is a multi-cast audio/text and video over wireless network with either private or broadcast capability using either handhelds or wearable systems. It provides interteam communications over large distances using Micro UAV as an airborne relay. Includes seamless integration of voice control with other input methods such as touch or keyboard and with other SOF teams. This system is GPS enabled, it knows where team members are, and provides video feeds from Pointer, BATCAM or Predator if available. It can be used to control sensors and marking equipment, e.g., airfield lights.  f. MACHINE-TO-MACHINE (M2M) TARGETING AND INTEGRATION: Allows ground users to send targets, Blue Force Information to AOC, applicable Situational Networks/Provides automated, near-real time insertion of Blue, Red, or Unknown Forces into Joint Tactical Information Distribution System, for dissemination of attacking missiles and cuing of ground-based interceptors. Provides easy interfacing among applications to share information. Allows Close Air Support users to quickly generate and send "Eyes-On" mensurated target information to those who need it. Integrates the range finder, GPS, Falcon View (3.2), DPSS, and radio to send nine-line messages (with acknowledge) over doctrinal chain to Situational Awareness Networks. Interfaces to Air Defense Systems Integrator, Surface Track Controller, Air Defense Operations Center System, Situation Air Data Link, and AC-130 Gunship, with plans for about 20 more.  5. DISTRIBUTED MISSION OPERATIONS (DMO) NETWORK EQUIPMENT AND SIMULATIONS: Provides equipment and simulations for integration into DMO networks. DMO is an operational readiness initiative enabling the AF to exercise and train at the operational and strategic levels of war, while facilitating unit-level training. It enables networked Live-Virtual-Constructive components to form the integrated DMO battlespace. Links geographically distributed, high-fidelity combat and combat-support training devices, including C2 and Intelligence, Surveillance and Reconnaissance systems. Allows warfighters at home station to exercise and train at the operational and strategic levels of war, as well as conduct networked unit-level training.					
	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 234		Page 7 of 7

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
TDC PROGRAM				{\$192,071}			{\$105,351}			{\$97,232}			{\$45,131}
LIGHTWEIGHT MULTIBAND SATELLITE TERMINALS	A		\$30,035,000	\$30,035		\$35,631,000	\$35,631		\$14,489,000	\$14,489		\$9,969,000	\$9,969
INTEGRATED COMMUNICATIONS ACCESS PACKAGE	A		\$146,465,000	\$146,465		\$64,751,000	\$64,751		\$72,443,000	\$72,443		\$31,016,000	\$31,016
NETWORK CONTROL CENTER-DEPLOYED	A		\$15,571,000	\$15,571		\$4,969,000	\$4,969		\$10,300,000	\$10,300		\$4,146,000	\$4,146
TACP MODERNIZATION				{\$2,595}			{\$18,868}			{\$16,698}			{\$17,263}
LASER TARGETING DEVICES	A					\$8,398,000	\$8,398					\$3,232,000	\$3,232
COMPUTERS	A		\$2,595,000	\$2,595		\$4,349,000	\$4,349		\$5,866,000	\$5,866		\$3,879,000	\$3,879
MANPACK/HANDHELD RADIOS	A								\$4,832,000	\$4,832		\$4,052,000	\$4,052
ROVER	A								\$6,000,000	\$6,000		\$6,100,000	\$6,100
JTRS VEHICULAR RADIO						\$6,121,000	\$6,121						
JTRS PROGRAM							{\$957}			{\$11,560}			{\$63,607}
JTRS HANDHELD RADIOS	A					\$957,000	\$957		\$11,560,000	\$11,560		\$63,607,000	\$63,607
BATTLEFIELD AIR OPERATIONS KIT							{\$6,936}			{\$5,630}			{\$4,200}

	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 235	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
LITES	A					\$6,936,000	\$6,936		\$3,550,000	\$3,550			
BRITES	A								\$1,137,000	\$1,137		\$2,202,000	\$2,202
BATCAM	A											\$1,998,000	\$1,998
BATMAN SOFTWARE MAINTENANCE										\$120			
SOFTNET										\$400			
M2M										\$423			
DISTRIBUTED MISSION OPERATION NETWORK EQUIPMENT AT SIMULATIONS													{(\$4,074)}
DMO NETWORK EQUIPMENT AND SIMULATIONS	A											\$4,074,000	\$4,074
TOTALS:				\$194,666			\$132,112			\$131,120			\$134,275
<b>Remarks:</b> Total Cost information is in thousands of dollars.													
				<b>P-1 ITEM NO</b> 68				<b>PAGE NO:</b> 236				Page 2 of 2	

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT						
ITEM / 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(6)										
LIGHTWEIGHT MULTIBAND SATELLITE TERMINALS										
FY2004(1)			AFMC/ESC	MIPR/OPT/FFP	NAVY SPAWAR SYSCEN - L3/HAUPPAUGE, NY	Jan-04	Jan-05			
FY2005(1)			AFMC/ESC	MIPR/OPT/FFP	NAVY SPAWAR SYSCEN - L3/HAUPPAUGE, NY	Jan-05	Jan-06			
FY2006(1)			AFMC/ESC	MIPR/OPT/FFP	NAVY SPAWAR SYSCEN - L3/HAUPPAUGE, NY	Jan-06	Jan-07	Yes		
FY2007(1)			AFMC/ESC	MIPR/OPT/FFP	NAVY SPAWAR SYSCEN - L3/HAUPPAUGE, NY	Jan-07	Jan-08	Yes		
INTEGRATED COMMUNICATIONS ACCESS PACKAGE										
FY2004(1-2)			AFMC/ESC	OPT/FFP	GENERAL DYNAMICS DECISION SYSTEMS/SCOTTSDALE, AZ AND REDCOM LABORATORIES/VICTOR, NY	Dec-03	Jun-04			
FY2005(1,6)			AFMC/ESC	C/FFP W/OPT	MULTIPLE	Dec-04	Jun-05			
FY2006(1,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-05	Jun-06	Yes		

	<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 237	Page 1 of 6
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY2007(1,6)			AFMC/ESC	OPT/FFP	MULTIPLE	Dec-06	Jun-07	Yes		
NETWORK CONTROL CENTER-DEPLOYED										
FY2004(1,5)			AFMC/ESC	C/FFP W/OPT	MULTIPLE	Jul-04	Dec-04			
FY2005(1,5)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-05	Jul-05			
FY2006(1,5)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-06	Jul-06	Yes		
FY2007(1,5)			AFMC/ESC	OPT/FFP	MULTIPLE	Jan-07	Jul-07	Yes		
TACP MODERNIZATION										
LASER TARGETING DEVICES										
FY2005			AFMC/ESC	MIPR/FFP	ARMY/NORTHROP-GRUMMAN LASER LITTON/APOPKA, FL	Nov-04	Apr-05			
FY2007			AFMC/ESC	MIPR/FFP	UNKNOWN	Nov-06	Dec-06	Yes		
		<b>P-1 ITEM NO</b> 68		<b>PAGE NO:</b> 238		Page 2 of 6				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT						
ITEM / 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	
COMPUTERS										
FY2004(3)			AFMC/ESC	DO/FFP	MULTIPLE	Jan-04	Mar-04			
FY2005(3)			AFMC/ESC	C/FFP	MULTIPLE	Jan-05	Mar-05			
FY2006(3)			AFMC/ESC	C/FFP	UNKNOWN	Nov-05	Jan-06	Yes		
FY2007(3)			AFMC/ESC	C/FFP	UNKNOWN	Nov-06	Jan-07	Yes		
MANPACK/HANDHELD RADIOS										
FY2006			AFMC/ESC	DO/FFP	HARRIS CORP/ROCHESTER, NY	Nov-05	Dec-05	Yes		
FY2007			AFMC/ESC	DO/FFP	HARRIS CORP/ROCHESTER, NY	Nov-06	Dec-06	Yes		
ROVER										
FY2006			AFMC/ESC	C/FFP W/OPT	UNKNOWN	Mar-06	Feb-07	Yes		
FY2007			AFMC/ESC	OPT/FFP	UNKNOWN	Mar-07	Jun-07	Yes		
JTRS VEHICULAR RADIO										



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT						
ITEM / 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	
FY2005			AFMC/ESC	MIPR/FPIS	ARMY/BOEING/ANAHEIM, CA	Mar-05	Oct-06	Yes		
JTRS PROGRAM										
JTRS HANDHELD RADIOS										
FY2005(1,7)			AFMC/ESC	MIPR/OPT/FFP	USSOCOM/THALES COMMUNICATIONS INC/CLARKSBURG, MD	Jul-05	Apr-06	Yes		
FY2006(1,7)			AFMC/ESC	MIPR/OPT/FFP	USSOCOM/THALES COMMUNICATIONS INC/CLARKSBURG, MD	Jul-06	Apr-07	Yes		
FY2007(1,7)			AFMC/ESC	MIPR/OPT/FFP	USSOCOM/THALES COMMUNICATIONS INC/CLARKSBURG, MD	Jul-07	Apr-08	Yes		
BATTLEFEILD AIR OPERATIONS KIT										
LITES										
FY2005(8)			AFMC/ASC	SS/CPFF	OPTICAL AIR DATA SYSTEMS/MANASSAS, VA	Oct-04	Feb-05			
FY2006(8)			AFMC/ASC	OPT/CPFF	OPTICAL AIR DATA SYSTEMS/MANASSAS, VA	Oct-05	Feb-06	Yes		
BRITES										
		<b>P-1 ITEM NO</b> 68				<b>PAGE NO:</b> 240		Page 4 of 6		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT						
ITEM / 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(9)			AFMC/ASC	C/CPFF	UNKNOWN	Mar-06	Mar-07	Yes		
FY2007(9)			AFMC/ASC	OPT/CPFF	UNKNOWN	Feb-07	Nov-07	Yes		
BATCAM										
FY2007			AFMC/ASC	C/CPFF	UNKNOWN	Feb-07	Nov-07	Yes		
DISTRIBUTED MISSION OPERATION NETWORK EQUIPMENT AND SIMULATIONS										
DMO NETWORK EQUIPMENT AND SIMULATIONS										
FY2007			AFMC/ASC	C/CPFF	UNKNOWN	Apr-07	Feb-08	Yes		
<b>Remarks:</b>										
<p>(1) Quantity and unit cost vary because of different types/configurations being procured.</p> <p>(2) Base contract awarded Jun 02 with 2 options to GDDS, Scottsdale, AZ, and REDCOM Laboratories Inc, Victor, NY.</p> <p>(3) Multiple contractors, through the AFWAY Program at HQ SSG/AQH, Gunter AFB, AL, will be used. Examples of these contractors are: Tallahassee Technologies, Tallahassee, FL; TRW, San Antonio, TX; and CDW-G, Vernon Hills, IL.</p> <p>(5) Base contract awarded Jul 04 with 4 options 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>(6) Base contract with 4 options awarded Dec 04 to multiple contractors (Dell Marketing LP, General Dynamics Decision Systems, Northrop Grumman</p>										
			<b>P-1 ITEM NO</b> 68			<b>PAGE NO:</b> 241				
						Page 5 of 6				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT						
ITEM / 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>Information Technology-Defense Mission Systems, Northrop Grumman Systems Corp-Denro Systems and Redcom Laboratories Inc).</p> <p>(7) Base year 2004 with 4 option years</p> <p>(8) Base year 2005 with 5 options</p> <p>(9) Base year 2006 with 5 option years</p>										
<b>P-1 ITEM NO</b> 68			<b>PAGE NO:</b> 242			Page 6 of 6				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>	416	1,053	2,046	2,507	1,994	1,995	1,935	1,930
<b>COST</b> (in Thousands)	\$7,384	\$13,882	\$24,726	\$27,380	\$27,165	\$27,453	\$28,137	\$28,595
<p><b>Description:</b></p> <p>The Combat Survivor Evader Locator (CSEL) joint program, led by the Air Force, replaces existing PRC-90 and PRC-112 survival radios with a new survival radio system utilizing the Global Positioning System (GPS), Ultra High Frequency (UHF) satellite communications, and the Integrated Broadcast System 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. This system is composed of [1] a user segment featuring 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; and [3] a ground segment featuring a standalone rescue center workstation and application software to enable two-way communication to/from isolated personnel, and routing of messages.</p> <p>Multi-service Operational Test &amp; Evaluation was completed in November 2003 and Air Force Operational Test &amp; Evaluation certified the Block 1 system operationally suitable and effective. Ongoing Block 2 development will add technical interoperability enhancements. Ultimately, the Air Force, Army, and Navy will procure approximately 35,000 CSEL radios, including over 17,500 for the Air Force.</p> <p>FY06 funding will procure radio production, 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.</p>								
	<b>P-1 ITEM NO</b> 69		<b>PAGE NO:</b> 243		Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: COMBAT SURVIVOR EVADER LOCATOR								
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
CSEL SYSTEM		416		{\$7,384}	1,053		{\$13,882}	2,046		{\$24,726}	2,507		{\$27,380}
CSEL RADIO (1)	A	416		\$3,296	1,053		\$7,905	2,046		\$15,083	2,507		\$18,480
ANCILLIARY EQUIP (2)				\$636			\$1,943			\$3,252			\$3,987
WARRANTY				\$341									
PORTABLE CSAR INTERROGATOR UNIT (3)										\$1,480			
PRODUCTION ENGINEERING				\$1,347			\$555			\$1,255			\$1,369
DIRECT MISSION SUPPORT (4)				\$1,764			\$3,479			\$3,656			\$3,544
TOTALS:				\$7,384			\$13,882			\$24,726			\$27,380
<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 3 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.</p> <p>(3) Portable CSAR Interrogator Unit enables Terminal Area Communications between CSEL and rescue forces. Funds initial production run of 100 units.</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>													
<b>P-1 ITEM NO</b> 69				<b>PAGE NO:</b> 244				Page 1 of 1					

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR						
ITEM / 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										
FY2004	416		AFSPC/SMC	SS/FFP	BOEING/ANAHEIM, CA	Mar-04	Jan-05			
FY2005	1,053		AFSPC/SMC	SS/FFP	BOEING/ANAHEIM, CA	Nov-04	Aug-05			
FY2006	2,046		AFMC/ESC	SS/FFP	BOEING/ANAHEIM, CA	Dec-05	Aug-06	Yes		
FY2007	2,507		AFMC/ESC	SS/FFP	BOEING/ANAHEIM, CA	Nov-06	Aug-07	Yes		
<p><b>Remarks:</b></p> <p>Unit costs per fiscal year are contingent upon the total radio quantity purchased by all three services. A reduction in any service's procurement in a given fiscal year increases the unit cost for all radios funded in that year.</p>										
			<b>P-1 ITEM NO</b> 69			<b>PAGE NO:</b> 245				Page 1 of 1

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$9,138	\$12,547	\$7,458	\$7,727	\$7,904	\$8,101	\$15,672	\$15,928	
<p><b>Description:</b></p> <p>The Radio Equipment element includes the High Frequency Global Communications System (HFGCS), a cost-effective, networked solution for providing near global communications coverage for both voice and data to aircrews. This element procures new, high frequency (HF) radio equipment and supports its integration for the Air Force (AF) at 15 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, high-frequency C2 network. The Joint Chiefs of Staff (JCS) tasked the AF to be the executive agent for this worldwide command and control network. The HFGCS is a global C2 network providing Beyond Line Of Sight, interoperable voice and data communications for strategic and tactical forces. The 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. A Teleport-capable system (a telecommunications collection and distribution point, providing deployed warfighters with multiband, multimedia, and a means for worldwide reach-back), 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 Europe (USAFE); and Pacific Air Forces (PACAF).</p> <p>1. SYSTEM CAPABLE OF PLANNED EXPANSION (SCOPE) COMMAND HF RADIO STATION REPLACEMENT: The SCOPE Command program (the acquisition program supporting the HFGCS weapons system) provides for modernization of selected high-power HFGCS ground radio equipment and supports upgrading the 15 AF HF global stations in accordance with the DoD's right sizing direction with state-of-the-art, commercial-off-the-shelf HF radio equipment.</p>									
	<b>P-1 ITEM NO</b> 70		<b>PAGE NO:</b> 246		Page 1 of 3				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT			
<b>Description (continued):</b>  a. NETWORK MODERNIZATION/IMPROVEMENTS: Supports US Central Command's (CENTCOM's) requirement to improve HF communications in their area of responsibility (AOR). The FY06 funding procures the engineering and technical analyses required to upgrade HF capabilities and support integration/interface of a new CENTCOM station into the Defense Information Systems Agency's (DISA's) Global Information Grid (GIG), which provides omnipresent, secure, robust, physically diverse terrestrial, airborne, and space-based transmission paths and information services between our fixed and deployed operating locations. FY06 funds procure radio equipment, including transmit and receive antennas, install and integrate this station into the global HFGCS network, and provide for interface and integration of the weapons system into CENTCOM's Combined Air Operations Center at Al Udied, Qatar. This work includes the definition, design, installation, integration, and operational testing necessary to implement this capability.  To eliminate a single point of failure (identified as part of the post 9/11 mission review) and to meet system survivability needs, an alternate/backup Network Control Station (NCS) is required to ensure uninterrupted operations for this critical C2 system. This effort requires building block/spiral upgrades to the existing control network to allow for the integration of an alternate NCS (Network Control Station-West (NCS-W)) capability into the HFGCS operational environment. FY06 funding procures the NCS-W hardware/software and the integration of this critical capability into the HFGCS worldwide network.  FY06 funding provides for Information Assurance (IA) activities (actions that protect and defend information systems) and mandated DoD security upgrades. To mitigate system security risks and vulnerabilities, IA remediation actions must be continuously and consistently applied to the weapon systems. This funding provides for risk assessment, definition, engineering, technical analysis, integration, and operational testing required to implement IA upgrades on the global HFGCS network. DoD interface criteria mandate these upgrades to ensure the HFGCS weapon system complies with DISA's GIG.  b. ANTENNAS: Additional program requirements and costs include implementation of Secure/Nonsecure HF email and HF antennas upgrade/replacement. An HF email capability is required to provide the means to send and receive email messages between aircraft and ground stations via the HFGCS network. This capability provides improved command, control, and communications, and enhanced mission safety through the transmission of pilot information, weather updates, and mission reconnaissance and intelligence information. The HF email program includes the engineering, integration,					
	<b>P-1 ITEM NO</b> 70		<b>PAGE NO:</b> 247		Page 2 of 3

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT			
<b>Description (continued):</b> equipment procurement, and modification of HFGCS ground stations and aircraft interface. Also included is the selective replacement/upgrade of older, degraded HF antennas, as required, to support worldwide HFGCS network mission requirements.  c. ENGINEERING/INTEGRATION/TRAINING: FY06 funding procures engineering integration and items needed to support CENTCOM's requirements to improve HF communications support in their AOR. Funding completes Alternate Network Control Station hardware and software procurement and integration of this critical capability into the HFGCS worldwide network. In accordance with Assistant Secretary of Defense for Networks and Information Integration direction, FY06 funds will be used to make the HFGCS weapon system Internet Protocol Version 6 compliant.  The FY05 Appropriation Report 108-622, dated 20 July 2004, included a Congressional add of \$4M to SCOPE Command. FY06 funds provide for network modernization/improvement Network Control Station-West (NCS-W) efforts with engineering, integration, network management, and security IAW DoD directives. Procurement and installation of SCOPE Command NCS-W will continue in FY06.  2. AFOSI TACTICAL RADIO SYSTEM: No FY06 funding requested.  3. ACC TRUNKED LMR SYSTEM: No FY06 funding requested.					
	<b>P-1 ITEM NO</b> 70		<b>PAGE NO:</b> 248		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: RADIO EQUIPMENT									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		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				{\$7,469}			{\$10,403}			{\$7,458}			{\$7,727}	
NETWORK MODERNIZATION/ IMPROVEMENTS	A			\$6,260			\$9,081			\$3,558			\$5,257	
ANTENNAS	A			\$604						\$3,200				
ENGR/INTEGRATION/TNG				\$605			\$1,322			\$700			\$2,470	
AFOSI TACTICAL RADIO SYSTEM	A			\$619			\$571							
ACC TRUNKED LMR SYSTEM	A			\$1,050			\$1,573							
TOTALS:				\$9,138			\$12,547			\$7,458			\$7,727	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 70					<b>PAGE NO:</b> 249					
												Page 1 of 1		

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: RADIO EQUIPMENT						
ITEM / 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(1)										
FY2004			AFMC/OC-ALC	DO/CPFF	ROCKWELL/RICHARDSON, TX	Jun-04	Jan-05			
FY2005(4)			AFMC/OC-ALC	OPT/CPFF	ROCKWELL/RICHARDSON, TX	Jan-05	Jan-06			
FY2006(4)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/RICHARDSON, TX	Apr-06	Jan-07	Yes		
FY2007(4)			AFMC/OC-ALC	OPT/CPIF	ROCKWELL/RICHARDSON, TX	Apr-07	Jan-08	Yes		
ANTENNAS(1-2)										
FY2004			AFMC/OC-ALC	DO/IDIQ	UNKNOWN	Mar-05	Aug-05	Yes		
FY2006			AFMC/OC-ALC	DO/IDIQ	UNKNOWN	Mar-06	Aug-06	Yes		
AFOSI TACTICAL RADIO SYSTEM(1)										
FY2004			HQ AFOSI	MIPR/FP	GSA, BASE RADIO SYSTEMS/FT MONMOUTH, NJ	Feb-04	Apr-05			
FY2005			HQ AFOSI	MIPR/FP	GSA, BASE RADIO SYSTEMS/FT MONMOUTH, NJ	Feb-05	Apr-06	Yes		

	<b>P-1 ITEM NO</b> 70		<b>PAGE NO:</b> 250	Page 1 of 2
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>							<b>DATE:</b> FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT						
ITEM / 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	
ACC TRUNKED LMR SYSTEM(1,3)										
FY2004			HQ ACC	OPT/FFP	MULTIPLE	Mar-04	Dec-04			
FY2005			HQ ACC	OPT/FFP	MULTIPLE	Mar-05	Dec-05	Yes		
<p><b>Remarks:</b></p> <p>(1) Quantities and unit costs vary due to site-specific requirements.</p> <p>(2) Contract issued through existing Navy contracts via a Military Inter-Departmental Purchase Request (MIPR).</p> <p>(3) Multiple options from existing ACC, AETC, and GSA schedule contracts. Award/delivery dates represent dates of first contract award and delivery.</p> <p>(4) Option to prior year Rockwell, Richardson, TX. Apr 01 basic contract award with 10 option years.</p>										
			<b>P-1 ITEM NO</b> 70			<b>PAGE NO:</b> 251				Page 2 of 2

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT			<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$2,571	\$5,092	\$5,871	\$2,742	\$3,072	\$3,147	\$3,551	\$3,603
<p><b>Description:</b></p> <p>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.</p> <p>1. AFRTS EQUIPMENT PROCUREMENT: FY06 funds will procure Electronic News Gathering (ENG) equipment in support of Direct to Home Television. Equipment will allow local AFRTS to insert local information giving commanders instant communication with their people on and off base. This will increase force protection and keep American military and their families overseas informed on local and world events.</p> <p>2. AFNEWS PRODUCTION CENTER: FY06 funds will procure life cycle replacement of digital video cameras and wireless microphone systems, upgrades to NT-based nonlinear editing systems, and digital backs for ENG camera systems. Funding of these items is critical to converting outdated analog camera systems to digital. Funding in FY06 will also pay for Scientific Atlanta PowerVu Plus Encoding/Encryption uplink system at the AFRTS Broadcast Center (BC), populated with nine services, and for community-specific channel encoders at the European uplink facility. These encoders, located at AFRTS-BC, encrypt the signal into digital format for each channel for transmission over satellites.</p>								
	<b>P-1 ITEM NO</b> 71		<b>PAGE NO:</b> 252			Page 1 of 1		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TV EQUIPMENT (AFRTV)			(\$2,571)		(\$5,092)		(\$5,871)		(\$2,742)
AFRTS EQ PROCUREMENT (DIRECT TO HOME)	A		\$2,299		\$4,805		\$5,572		\$2,433
AFNEWS PRODUCTION CENTER	A		\$272		\$287		\$299		\$309
<b>TOTALS:</b>			\$2,571		\$5,092		\$5,871		\$2,742

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 71		<b>PAGE NO:</b> 253	Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$4,714	\$3,258	\$3,193	\$8,413	\$9,717	\$8,865	\$10,146	\$8,850	
<p><b>Description:</b></p> <p>Closed Circuit Television (CCTV) and Audiovisual (AV) systems and their products are used throughout the Air Force to help inform and train warfighters. Video and multimedia-based products are developed for warfighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. 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. These funds sustain this capability by replacing older video studio systems with newer and more capable equipment and systems for Air Force video production and combat/contingency documentation teams. 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. 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> <ol style="list-style-type: none"> <li>1. <b>IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:</b> FY06 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 enable Air Force TV centers to offer greater capability in image articulation and customer understanding. The 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.</li> <li>2. <b>COMBAT CAMERA SYSTEMS:</b> FY06 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 enhanced</li> </ol>									
	<b>P-1 ITEM NO</b> 72		<b>PAGE NO:</b> 254		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT			
<b>Description (continued):</b> 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 imagery across satellite as well as terrestrial systems. The critical capability provides warfighters with greater flexibility in decision-making with real-time operational and combat imagery.  3. WESTERN TEST RANGE VIDEO SYSTEMS: No FY06 funding requested.					
	<b>P-1 ITEM NO</b> 72		<b>PAGE NO:</b> 255		Page 2 of 2

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
IMAGE ACQ/TV STUDIO EQUIP	A		\$2,355		\$1,619		\$1,693		\$1,700
COMBAT CAMERA SYSTEMS	A		\$2,359		\$1,639		\$1,500		\$1,696
WESTERN TEST RANGE VIDEO EQUIPMENT	A								\$5,017
<b>TOTALS:</b>		2	\$4,714	2	\$3,258	2	\$3,193	3	\$8,413

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 72		<b>PAGE NO:</b> 256		Page 1 of 1
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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> <small>(in Thousands)</small>	\$160,905	\$109,380	\$107,007	\$125,531	\$114,274	\$131,662	\$140,281	\$138,021	
<p><b>Description:</b></p> <p>The Base Communications Infrastructure (BCI) program provides timely, accurate information to decision makers. This program enables 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 and 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 Base Information Infrastructure (P-1 Line 58).</p> <p>1. HEADQUARTERS AIR FORCE COMMUNICATIONS AGENCY (HQ AFCA): This program procures communications and information systems equipment supporting the information technology (IT) mission. FY06 funding provides for AF-wide procurement of Commercial Off-the-Shelf (COTS) Land Mobile Radio (LMR) equipment. This procurement program replaces current in-garrison wideband radio equipment with narrow band handheld and mobile radios, base stations, and repeaters to meet the National Telecommunications and Information Administration (NTIA) narrow band mandate. Failure to procure NTIA narrow band-mandated LMRs risks a Commerce Department-directed shutdown of mission-critical radio assets. These assets include (but are not limited to) Operational Command &amp; Control, Airfield Security and Flightline Launch/Recovery Operations, Fire/Crash/Explosive Ordnance Disposal, Base Security, Disaster Response/Emergency Medical Services, and Missile Field Dispatch Teams.</p>									
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 257				Page 1 of 12		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>2. AIR NATIONAL GUARD (ANG): BCI is the single funding source to the ANG for base communication requirements. FY06 funds provide for expansion, modernization, and sustainment of base communications infrastructure at 88 ANG flying wings and over 200 Geographically Separated Units (GSU), including Network Operations Support Centers (NOSCs) and six Regional Operations Support Centers (ROSCs).</p> <p>Funds support "top-down" ANG-wide programs promoting base communications infrastructure consistency across the ANG. Funding provides engineering and installation 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.</p> <p>In addition to ANG-wide programs, funds also provide solutions for critical base-level communications infrastructure requirements. Specific projects at each ANG base vary somewhat as requirements and solutions vary. However, these various solutions must comply with AF approved architectures, regulations, network designs, and equipment specifications. This ensures communications compatibility across the ANG.</p> <p>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 radio infrastructure equipment to include base stations, repeaters, mobile equipment, and handheld radios. Office appliances include end user and deployable computer systems, video systems, media and projection systems, and the wiring and cabling supporting such devices. Also, many bases 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 such as air traffic control, radar and Tactical Digital Information Links (TADIL), surveillance and intrusion detection systems, Radio Frequency Identification Tagging (RFIT), infrared, remote controlled vehicles, technological upgrades, and sustained maintenance of the developed systems. A \$2.5M Congressional add in the FY05 Appropriations Conference Report 108-622, dated 20 July 2004 was received for this program.</p> <p>3. HEADQUARTERS AIR FORCE SPACE COMMAND (HQ AFSPC): Funds support Air Force Space Command base communications, command-wide</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 258		Page 2 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>modernization, and life cycle replacement of base information transmission systems. Procurements include wide and local area network hardware (servers, routers, hubs, and network management systems) and software, upgrades and replacements for secure/nonsecure telephone switches at main bases and remote Geographically Separated Units (GSUs). Additionally, funds support Air Force Chief Information Officer (CIO), IT Summit, and Command Initiatives, (e.g., Server Consolidation [an effort to optimize and simplify the existing I/T infrastructure - not just the servers, but the entire end-to-end infrastructure]), and the Command Enterprise.</p> <p>FY06 funds support the continuation of many multiyear projects. One project modernizes command-wide LMR transmission systems to meet the NTIA narrow band initiative. Funds provide LMR system infrastructure upgrades at AFSPC, seven wings and Geographically Separated Locations (GSLs). FY06 also begins the critical phase of correcting inadequate Wide Area Coverage communications at Intercontinental Ballistic Missile (ICBM) bases to include FE Warren AFB, WY, Malmstrom AFB, MT, and Minot AFB, ND. Improvements will ensure prime Command and Control (C2) radio communications to remote areas for nuclear surety, range safety, and force protection supporting personnel guarding nuclear weapons and weapons platforms. This enhanced capability is required to meet the US Weapons C2 National Security Presidential Directive NSPD-28, and the Scrowcroft Report DoE/DoD requirements for secure coverage in all missile fields.</p> <p>Numerous AFSPC military construction support efforts ensure new and upgraded facilities are outfitted with adequate communications infrastructure to support mission systems operations. Continued funding is required to ensure on-time/right-time phased installation of communications infrastructure as each building achieves occupancy readiness.</p> <p>The Systems Acquisition Management Support (SAMS) relocation project is another multiyear project. This project, at Los Angeles AFB, CA, relocates base communications systems and equipment from an earthquake prone location into a new facility. Communications systems include Local Area Networks (LANs), Network Control Center (NCC) operations, network switching equipment, video systems, and video security equipment. Various communications facilities in both the old and new location are required to remain in service until the project is completed, because there cannot be any disruption of data transmissions that could hinder AFSPC day-to-day mission capabilities. Project continuance without interruption is required to meet contractual</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 259		Page 3 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> obligations between the Government and the contractor working the relocation efforts.  FY06 funding also supports the Enterprise initiative. This initiative consolidates communications networks throughout AFSPC by increased use of web servers, e-staffing, security boundary controllers (firewalls), data storage systems, and file print services. Also continuing is the Enterprise Network Management Facility (ENMF) initiative. Examples include email consolidation projects at AFSPC Front Range locations (Buckley AFB, CO, Schriever AFB, CO, Cheyenne Mountain Complex CO, and Peterson AFB, CO), increasing storage capability two-fold. Also, this project deploys Exchange 2000 and Windows 2003 software across AFSPC.  This program also upgrades base alert notification systems. For example, the transition of Buckley AFB from an ANG base to an active duty base includes the installation of a new Giant Voice base-wide emergency notification system. Other upgrades include enhancements to the Integrated Digital Network at Peterson AFB, and expansion of the Secret Internet Protocol Router Network (SIPRNET) throughout AFSPC. Continued funding is required to ensure AFSPC meets minimum safety and emergency notification requirements.  4. HQ US AIR FORCES IN EUROPE (USAFE): FY06 funding supports base communications infrastructure expansion and modernization to include engineering, procurement, and installation at bases, GSUs, GSLs, and MAJCOM headquarters. This includes replacing maintenance-intensive equipment and outdated network management systems, and increasing the capacity of saturated information transmission systems. Specific base communications infrastructure improvements provide critical C2 communications supporting security, fire, medical, and response teams charged to defend and protect Americans living outside the CONUS. FY06 funding will replace telephone switch batteries and telecommunications software at Royal Air Force (RAF) Croughton, UK, and RAF Mildenhall, UK. Funding also provides voicemail services at multiple Main Operating Bases (MOBs) to include acquiring and installing switch expansion units for the multifunction voice switching system at Ramstein AB, Germany.  FY06 funds procure a new communications link between RAF Mildenhall, UK, and RAF Lakenheath, UK, via RAF Feltwell, UK. This link consists of fiber optic cable contained within a manhole and conduit system providing a secondary communications means between these two critical sites in case of catastrophic failure to the existing primary cable. FY06 funds complete a project routing fiber optic cable into Hardened Aircraft Shelters					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 260		Page 4 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<p><b>Description (continued):</b></p> <p>(HAS) at Spangdahlem AB, Germany. This fiber optic communications link provides assured communications supporting HAS security systems protecting valuable mission-ready assets.</p> <p>Funds also support the Air Staff/CIO-directed server consolidation initiative ("One Air Force...One Network" philosophy). Upgrades to Storage Area Networks (SAN) at three Aviano AB, Italy, GSUs will provide centralized management, increased reliability, and improved support for network customers. FY06 funds support LMR narrow-band transitions at Aviano AB, enhancing mobile communications compatibility between USAFE, other MAJCOMs, and other services.</p> <p>5. HEADQUARTERS AIR EDUCATION AND TRAINING COMMAND (HQ AETC): FY06 funds support various, distinct programs for AETC, each detailed below.</p> <p>The Technical Training Management System (TTMS) is a tool for the management of all technical training students and resources, design and development of courses, evaluation of training to include testing and critiques, and management of employee records. This system is required to meet advanced technical training requirements for 175,000 trainees per year in 20 different career fields. FY06 funds provide IT modernization systems, to include workstations, servers, software, and secure communications for TTMS between technical training bases and their respective field training detachments, operating locations, and basic military training organizations. FY06 funds will be used to continue the automation of resource tracking within TTMS.</p> <p>COMMUNICATIONS ENGINEERING AND INSTALLATION PROGRAM: The Engineering and Installation program is one of three major AF programs our bases have to satisfy current shortfalls as identified in the base approved and MAJCOM validated base blueprint. This provides sufficient communications and information infrastructure to adequately support the flying and technical training, recruiting, and accession missions of all 13 AETC bases.</p> <p>FY06 delivers required fiber optic connectivity to core facilities that are CITS late to need (CITS schedule doesn't meet the needs), and all non-core facilities. Also provides replacement of copper cables and associated manhole/duct systems for these cable projects in excess of \$750K. Communications cables at many AETC bases are extremely old, antiquated, and buried underground without protective shielding. Cable failures are increasingly expensive to repair.</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 261		Page 5 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<p><b>Description (continued):</b></p> <p>Funds deliver standardized C2 systems across the command to provide an effective and efficient console system. Current console systems have exceeded their life-cycle and provide limited ability to effectively manage the wing command posts.</p> <p>Delivers SIPRNet terminals to every wing and vice wing commander, group commander, squadron commander, wing command post, alternate wing command post, installation deployment officer and unit deployment manager within the command. This also satisfies additional upward generated user's SIPRNet requirements not within one of the categories identified above to fulfill immediate needs to access classified data. The need to transmit classified 'secret' data 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>Delivers one component (Giant Voice) of Installation Warning Systems to all 13 bases within AETC. This is critical to provide the ability to quickly notify the base population of any threats. Giant Voice is the critical Installation Warning System 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 or terrorist attack.</p> <p>Finally, FY06 funds enable AETC to continue server consolidation efforts via a storage area network (SAN) solution at each AETC Network Control Center and the Randolph AFB NOSC. This provides AETC the ability to centrally manage and standardize file, print, and Web services. Consolidation also provides enhanced data recovery due to centralized backups. If not funded, bases will continue supporting "duplicate" isolated systems unable to provide enhanced features and improved network security. In addition, this command will not meet the AF CIO mandate to consolidate resources under the One Air Force/One Network philosophy.</p> <p>6. HQ AIR FORCE MATERIAL COMMAND (HQ AFMC): FY06 funding supports the engineering, acquisition, and installation of network infrastructure replacements and upgrades for AFMC's classified and unclassified networks to include network protection tools and improved manageability as part of a multiyear effort. The primary focus is a robust regional architecture consisting of regional nodes within which AFMC can consolidate servers and storage at</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 262		Page 6 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>MAJCOM level. This infrastructure will provide email server consolidation and Business Continuity of Operations (BC/COOP) at Kirtland AFB, NM, and Wright-Patterson AFB, OH, for classified messaging, and Hill AFB, UT, Robins AFB, GA, Tinker AFB, OK, and Wright-Patterson AFB, OH, for unclassified messaging. In addition, funds will provide the required infrastructure for server and storage consolidation at all regional nodes. Benefits of this regional architecture include operating efficiencies, superior security, business continuity, and scalability for future growth.</p> <p>FY06 funding will also provide for infrastructure and network expansion to include the 'first 400 feet' of fiber and copper cables, additional network connections and telephone switching system upgrades. FY06 funding also provides for an Enterprise Advanced Collaboration workspace, to include manpower, servers, and storage. Funding also 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.</p> <p>7. HQ PACIFIC AIR FORCES (HQ PACAF): This program procures communications and information systems equipment supporting the IT mission. Funding supports network expansion and modernization by providing infrastructure engineering, procurement, and installation. Procurements include network equipment, network servers, fiber, metallic wiring, fiber optic transceivers, network hubs, and voice and data switching equipment.</p> <p>A top priority is expansion of the PACAF SIPRNET to improve warfighter network access. This network expansion will provide 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 demanding new requirements, such as imagery on demand, as well as support for follow-on forces deploying to PACAF bases with minimal effort or additions to the infrastructure.</p> <p>Also, the demand for upgraded coalition network access continues to grow at an increasing rate. PACAF requires connectivity to and within the Republic of Korea, Canada, and Japan. The existing communications cabling was installed piece-meal over the years and is failing under the strain of current operations. FY06 funds continue the effort to replace base infrastructure supporting communications in the Republic of Korea.</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 263		Page 7 of 12

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>Funding is also required to correct network deficiencies that impact combined operations, through NORAD, in support of the Homeland Defense mission.</p> <p>8. HQ AIR COMBAT COMMAND (HQ ACC): FY06 funding procures and maintains standardized communications and information systems throughout ACC, providing MAJCOMs, Numbered AFs, and Combat AFs means to defend, control, manage, modify, and monitor the Air Force communication networks. Funding continues to provide communications upgrades in direct support of the IT Summit Initiative to consolidate servers on both the Unclassified but Sensitive Internet Protocol Router Network (NIPRNET) and Secret Internet Protocol Router Network (SIPRNET) for Holloman and Cannon AFBs as well as SIPRNET for Langley AFB, VA, Barksdale AFB, LA, Offutt AFB, NE, Nellis AFB, NV, and Mt. Home AFB, ID. SIPRNET capability expansion remains a top priority requiring funding in support of classified networking infrastructure at all locations.</p> <p>FY06 funding will support Mission Critical Network Reliability (MCNR). MCNR secures base communications infostructure from unauthorized personnel access and creates dual homed connectivity to both NIPRNET and SIPRNET. This will eliminate single points of failure in an effort towards meeting the ACC Commander's directed goal of 99.999% network reliability. Network downtime detrimentally impacts the Warfighter Kill-chain (the time to find, fix, track, target, engage, and assess the enemy). MCNR builds base level network Continuity of Operations (COOP) capability by installing dual connections from mission critical Command and Control (C2) facilities to the base backbone. This protects against hacker threats by providing diverse paths inside and outside the network to ensure decision makers are capable of executing command and control. MCNR establishes a Command network assistance program which standardizes base level infostructure, computer network defense posture, and Standard Evaluation.</p> <p>FY06 funding also supports the Command Engineering and Installation (E&amp;I) program and Air Force 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. Funding provides C2 connectivity to all key base facilities, organizations, and warfighting forces.</p> <p>This program also funds procurement of commercial off-the-shelf land mobile radio (LMR) equipment, which replaces current in-garrison wideband equipment, on a one-for-one basis, with narrowband handhelds, base stations, and repeaters to meet the National Telecommunications and Information</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 264		Page 8 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>Administration narrowband mandate. LMRs provide a versatile, secure, and low cost means of sending and receiving information--voice or data, classified or sensitive--to warfighters. Critical in-garrison functions supported by LMR include local command and control, missile security, law enforcement, fire department, medical life support, aircraft generation, disaster response, airfield operations, air base defense, and maintenance. FY06 funding is divided into two categories: handheld LMRs and LMR infrastructure. Handheld LMRs are portable, low power line-of-sight (LOS) communication 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. FY06 will continue to fund Barksdale AFB, LA, and Offutt AFB, NE.</p> <p>9. HQ AIR MOBILITY COMMAND (HQ AMC): FY06 funding provides for Base Communications Infrastructure projects supporting IT services. These projects include: fiber/copper cable installation, telephone switch and voice system upgrades, and navigational equipment infrastructure support. Projects replace outdated and maintenance-intensive equipment, upgrade existing voice systems, and increase telecommunications transmission capacity. Modernization initiatives facilitate rapid dissemination of vital Air Force command and control, and combat support information.</p> <p>Some examples of FY06 funded projects:</p> <p>MacDill AFB, FL - Infrastructure projects include Voice Switch expansion (additional 1,920 lines) supporting Central Command (CENTCOM), new fiber optic and copper cables in support of the Director of Intelligence (J2), as well as continued upgrade of copper and fiber optic cables supporting the remainder of the base and other tenant units.</p> <p>Travis AFB, CA - Provides force protection support for the various base entry control points. This requires substantial infrastructure investment, as there is currently little, if any, communications connectivity at the base gates.</p> <p>Dover AFB, DE - Meridian switch replacement will significantly increase reliability of the telephone system and provide improved communications support throughout the entire installation.</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 265		Page 9 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b>  Fairchild AFB, WA - Upgrades 'force protection and antiterrorism' control points at base entry gates. This includes installation of copper and fiber optic cables to provide connectivity between the gates and the security forces control center.  10. HQ AIR FORCE GEOBASE INTEGRATION OFFICE (GIO): No FY06 funds requested.  11. HQ AIR FORCE SPECIAL OPERATIONS COMMAND (HQ AFSOC): FY06 funds support base communications command-wide modernization and life cycle replacement of information transmission systems and base communications infrastructure, as well as the Command E&I program. Procurements include wide and local area network hardware (servers, routers, hubs, and network management systems for information management from central locations) and software upgrades and life cycle replacement of base communications infrastructure. Additional funds support CIO, IT Summit, and Command Initiatives (i.e., Server Consolidation).  FY06 funds support the Air Staff/CIO-directed server consolidation initiative ("One Air Force...One Network" concept). Server consolidation and command enterprise efforts include both Moody AFB, GA and Hurlburt Field, FL. This effort includes implementing active directory (allows administrators to handle and maintain all network resources from a single location), consolidating email, file, and print systems, and deploying system management servers (SMS). Funding provides essential standard network and configuration control between MOBs and GSUs, and also upgrades SANs at Moody AFB, GA.  FY06 funding provides much needed upgrades to and replacement of wiring at Moody AFB, GA. Funds procure engineering studies and installation using new construction techniques to bring cable and building terminations up to AF standards. Current wiring is antiquated and does not meet current technology and/or construction standards (e.g., buried underground without protective shielding). Cable failures are frequent and becoming extremely expensive to repair.  FY06 funds will also be used to provide upgrades to the Giant Voice system at Moody AFB, GA. Giant Voice is a critical Installation Warning System (IWS) giving commanders the ability to quickly and accurately notify base personnel of emergency situations. Announcements include notifications of potential or actual emergencies or threats such as impending natural disasters or terrorist attack.					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 266		Page 10 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> <p>Funds will also be used to provide additional SIPRNET connectivity to Moody AFB, GA, so it can adequately serve as the continuity of operations (COOP) site for Headquarters Air Force Special Operations Command (HQ AFSOC) during natural disasters and other emergency situations. Presently the need for collateral data support for command and control far exceeds Moody AFB's SIPRNET infrastructure capability.</p> <p>12. HQ 11th WING: No FY06 funding is requested.</p> <p>13. AIR FORCE RESERVE COMMAND (AFRC): FY06 funds provide for expansion, modernization, and sustainment of base communications infrastructure at HQ AFRC, the MAJCOM NOSC, HQ Air Reserve Personnel Center (ARPC), 43 AFRC flying wings/groups, and over 40 GSUs. Funds support MAJCOM centrally funded AFRC-wide programs promoting base communications infrastructure consistency across the command. Funding provides E&amp;I support and command-wide hardware and software purchases. This ensures 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 those of other Services. Funds support data, voice, and video projects to promote compatibility with evolving active duty AF architectures.</p> <p>Funding provides for upgrades, technological advances, and sustained maintenance of the developed systems. In addition to funding AFRC-wide programs, funds also provide solutions for critical base-level communication infrastructure requirements. One specific requirement includes AFRC's C2 facilities that require communications upgrades to ensure connectivity with integrated Homeland Defense C2 networks to respond to increased workload and to provide adequate coordinated response to specific force protection levels. FY06 funds also support the Category I Instrument Landing System (ILS) installation at Willow Grove Air Reserve Station (ARS), PA, for use by all stationed and transient aircraft.</p> <p>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 radio infrastructure to include base stations, repeaters, mobile equipment, and handheld radios. Also, many bases require communications infrastructure to provide data management, including tiered storage, backup, online and offline recovery services, firewalls, secure enclaves, and encryption devices.</p>					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 267		Page 11 of 12

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b>  14. SERVICE ACQUISITION EXECUTIVE: No FY06 funds requested.  15. AIR FORCE OFFICE OF SPECIAL INVESTIGATION: No FY06 funds requested.  16. US AIR FORCE ACADEMY: No FY06 funds requested.					
	<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 268		Page 12 of 12

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
BASE COMMUNICATIONS INFRASTRUCTURE									
HQ AFCA (1,4)	A		\$278		\$4,380		\$1,427		\$15,021
ANG (1-4)	A		\$24,322		\$26,769		\$27,651		\$31,797
HQ AFSPC (1-4)	A		\$36,846		\$17,848		\$20,385		\$18,839
HQ USAFE (1-4)	A		\$28,678		\$17,464		\$9,816		\$6,277
HQ AETC (1-4)	A		\$15,911		\$9,335		\$11,329		\$11,448
HQ AFMC (1-4)	A		\$15,700		\$16,848		\$12,820		\$8,299
HQ PACAF (1-4)	A		\$10,687		\$6,625		\$4,151		\$8,836
HQ ACC (1-4)	A		\$13,950		\$5,501		\$14,285		\$15,909
HQ AMC (1-4)	A		\$2,294		\$2,496		\$2,885		\$2,977
HQ AF GIO (1,3)	A		\$5,442						
HQ AFSOC (1-4)	A		\$1,743		\$53		\$730		\$599
HQ 11TH WING (1-4)	A				\$1,577				\$2,301
		<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 269		Page 1 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HQ AFRC (1-4)	A		\$2,299		\$484		\$1,528		\$1,537
SERVICE ACQUISITION EXECUTIVE	A								\$1,691
AF OSI (1-4)	A		\$2,375						
USAFA (1-4)	A		\$380						
<b>TOTALS:</b>			\$160,905		\$109,380		\$107,007		\$125,531
<p><b>Remarks:</b></p> <p>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>									
<b>P-1 ITEM NO</b> 73			<b>PAGE NO:</b> 270			Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$5,916	\$5,926	\$3,662	\$3,794	\$4,982	\$5,067	\$5,190	\$5,275	
<p><b>Description:</b></p> <p>1. The "Items Less Than \$5M" line funds various procurements that support the mission of all Air Force (AF) commands. This program contains numerous miscellaneous items of electronics and telecommunications equipment. The major procurement activity in this line is replacement of Power Conditioning and Continuation Interface Equipment (PCCIE). PCCIE systems are used to back up and protect power-sensitive/dependent computer systems. All items have an annual procurement value of less than \$5,000,000 approved for use by the AF.</p> <p>2. PCCIE consists of commercial power quality equipment. This equipment is fielded as a complete system and, once installed, provides 100 percent uninterrupted power to critical AF installations. This program procures replacement PCCIE for all AF, Air National Guard, and AF Reserve units. Examples include predator exploitation and battle damage assessment through the Ballistic Missile Early Warning System at Thule AB Greenland, which provides tactical warning and attack assessment and operational support to the National Command Authority and combatant commanders; and Tactical Air Navigation at Moron AS Spain, which provides direct aircraft support of operations in Iraq and Afghanistan, as well as emergency support of our NASA shuttle missions. PCCIE also supports all regional air defense sector radar sites, worldwide combat communications centers, radar sites in Middle Eastern countries, worldwide satellite tracking stations, numerous information processing sites, and Next Generation Radar sites. Without the equipment, sites will experience power outages, brownouts, power surges, and sags, all of which will cause loss of mission capability.</p>									
	<b>P-1 ITEM NO</b> 74		<b>PAGE NO:</b> 271		Page 1 of 1				

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)</b>				<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION			
<b>PROCUREMENT ITEMS</b>	<b>NSN</b>	<b>FY2006</b>		<b>FY2007</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
POWER CONDITIONING AND CONTINUATION INTERFACING EQUIPMENT			\$3,662		\$3,794
TOTALS:			\$3,662		\$3,794
<p><b>Remarks:</b> Cost information is in thousands of dollars.</p>					
	<b>P-1 ITEM NO</b> 74		<b>PAGE NO:</b> 272		Page 1 of 1

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2005
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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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	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$37,748	\$23,274	\$24,714	\$25,451	\$47,811	\$46,361	\$48,766	\$72,546

**Description:**

1. BALLISTIC MISSILE EARLY WARNING SYSTEM: No FY06 funds are requested.
  
2. 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. ATCALs provides 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. The following modifications are in support of the ATCALs mission:
  - a. AN/TRN-26 TECHNICAL UPGRADE: No FY06 funds are requested.
  
  - b. DIGITAL BRIGHT RADAR INDICATOR TOWER EQUIPMENT Flat Panel Display: No FY06 funds are requested.
  
  - c. AN/GRN-29, INSTRUMENT LANDING SYSTEM GROUNDING MODIFICATION: The incoming AC power distribution within the AN/GRN-29 does not meet the requirement of the National Electric Code, Military Standard 188-124, and T.O. 31-10-24. Specifically, the incoming AC power-neutral wire is connected to the chassis ground throughout the shelter, which places AC current on the grounding system. This creates several current loops which can contribute to equipment malfunctions (especially during inclement weather) and presents a potential personnel safety hazard. The modification brings the AN/GRN-29 grounding configuration into compliance with the National Electric Code.

	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 273		Page 1 of 5
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> <p>d. 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 27-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 AF standard of 97%. This modification improves radar maintainability and reliability.</p> <p>e. AN/GSH-59, AUTOMATED TERMINAL INFORMATION SYSTEM (ATIS) MODIFICATION: No FY06 funds are requested.</p> <p>f. MISCELLANEOUS LOW COST MODIFICATIONS: FLIPS - Flight Information Processing System is used by DoD Air Traffic Control (ATC) facilities for storage and processing of flight plan information provided by the Programmable Indicator Display Processor (PIDP) system. The current FLIPS hardware and software are experiencing supportability problems. Funding will procure new Central Processing Units, communication circuit cards, printers and software for proper interface with the PIDP. PIDP is used by DoD ATC facilities for interface of RADAR data to ATC controller indicators. The current software is experiencing reliability problems and interface limitations. Software re-write will correct these issues and extend the systems lifetime. FY06 funding provides for both modifications.</p> <p>g. AN/TPN 19 RADAR SET GROUP TRANSMITTER MODIFICATION: 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 32-year-old technology to develop and radiate radar signals. The transmitter has experienced component obsolescence and diminishing manufacturing sources. Modification of the transmitter will improve the systems maintainability and reliability and provide a viable source of repair.</p> <p>h. MSN-7, PROCOM 2000 VOICE SWITCH MOD: No FY06 funds are requested.</p> <p>3. 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</p>					
	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 274		Page 2 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> 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: FY06 funding replaces proprietary hardware and software in the WSR-88D radar transmitter and migrates them to open systems standards. Replacement will decrease recurring maintenance costs and eliminate components failing at higher than expected rates.  (2) MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM: FY06 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. Upgrade of dissemination subsystem hardware, software, and communications infrastructure will ensure timely receipt of weather information by warfighters at worldwide fixed and deployed locations.  (3) MOD# 98-003, WEATHER FORECASTING: FY06 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 capability for classified target-scale modeling.  (4) MOD# 00-002, TACTICAL WEATHER RADAR: No FY06 funding is requested.					
	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 275		Page 3 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> <p>(5) MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT (AFCCC-R) UPGRADE: FY06 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 central processing units for additional data ingest, storage, and retrieval capabilities.</p> <p>(6) MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS): FY06 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 will enhance long-term supportability of ASOS.</p> <p>(7) MOD# 00-005, DIRECT READOUT TERMINAL: No FY06 funding is requested.</p> <p>(8) MOD# 00-001, NEXRAD UPGRADES: FY06 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 Department of Defense, the Department of Commerce, and Department of Transportation.</p> <p>(9) MOD# 04-002, WEATHER DATA COLLECTION: No FY06 funds are requested.</p> <p>(10) MOD# 98-002, PRODUCT TAILORING/WARFIGHTER APPLICATIONS: No FY06 funds are requested.</p> <p>b. SPACE WEATHER: The Space Environmental Support System (SESS) 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</p>					
	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 276		Page 4 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> distributed to worldwide users. Those products allow warfighters to mitigate the impact of space weather on activities such as high frequency radio communications, the accuracy of global positioning system navigation, satellite anomaly resolution, and space operations.  (1) MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN): FY06 funding supports a comprehensive replacement of 1970s-era hardware components to ensure continued reliability and maintainability. Component refresh will ensure timely and relevant data about solar flare activity, allowing warfighters to mitigate radiation effects on operations involving high altitude aircraft, manned spacecraft, and the Global Positioning System.  4. JOINT SURVEILLANCE SYSTEM: No FY06 funds are requested.  5. NORTH WARNING SYSTEM: No FY06 funds are requested.  6. SHARED EARLY WARNING SYSTEM (SEWS): FY06 funds procure equipment upgrades for the SEWS-specific equipment at Theater Combatant Commander locations, partner nations, and the Centralized Distribution Facility at Peterson AF, CO, where data is initially received and filtered, and also at the inject points where data is transmitted to SEWS customers and other foreign partner nations. Development funding for SEWS is in Program Element 0308699F.  7. MOBILE CONSOLIDATED COMMAND CENTERS (MCCC): FY06 funding will procure replacement components for commercial-off-the-shelf (COTS) products, which are integral to the US Northern Command MCCC. Programmed replacement maintains operational currency to meet MCCC mission requirements. COTS products have an estimated 18 month life cycle before product upgrades and planned obsolescence. Specific systems replenishment includes the Data Distribution System and Defense Red Switch Network.					
	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 277		Page 5 of 5

UNCLASSIFIED

# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
BALLISTIC MISSILE EARLY WARNING SYSTEM (BMEWS) SERVICE LIFE EXTENSION PROGRAM (SLEP)				{\$3,808}									
HARDWARE/SOFTWARE	A			\$3,808									
AIR TRAFFIC CONTROL LANDING SYSTEM (ATCAL)				{\$9,206}			{\$10,261}			{\$10,721}			{\$12,377}
AN/TRN-26 TECHNICAL UPGRADE	A			\$4,365			\$2,779						
DIGITAL BRIGHT RADAR INDICATOR TOWER EQUIPMENT	A			\$2,100									
AN/GRN-29, INSTRUMENT LANDING SYSTEM GROUND	A						\$1,622			\$2,100			
AN/GPN-22(V) RADAR SET GROUP TRANSMITTER	A			\$1,508			\$5,860			\$3,590			\$3,200
AN/GSH-59 AUTOMATED TERMINAL INFORMATION SYSTEM (ATIS)	A			\$529									
MISCELLANEOUS LOW COST MODS	A			\$704						\$1,031			\$2,377
AN/TPN-19 PAR TRANSMITTER MOD	A									\$4,000			
MSN-7 VOICE SWITCH MOD	A												\$6,800

	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 278	Page 1 of 3
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# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
WEATHER OBSERVATION & FORECAST SYSTEM				{\$8,665}			{\$11,116}			{\$11,850}			{\$12,147}
GROUND WEATHER				{\$6,874}			{\$9,820}			{\$10,694}			{\$12,147}
MOD# 94-003B, NEXRAD OPEN RADAR DATA ACQUISITION (ORDA)	A			\$2,063			\$1,804			\$1,178			
MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM	A						\$657			\$909			\$1,578
MOD# 98-003, WEATHER FORECASTING	A			\$3,169			\$4,000			\$4,577			\$4,410
MOD# 00-002, TACTICAL WEATHER RADAR (TWR)	A			\$200			\$850						
MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT UPGRADE (AFCCCR-U)	A			\$600			\$650			\$650			\$650
MOD# 02-002, AUTOMATED SURFACE OBSERVING SYSTEM (ASOS)	A			\$842			\$517			\$705			\$720
MOD# 00-005, DIRECT READOUT TERMINAL (DRT)	A						\$1,342						
MOD# 00-001 NEXRAD UPGRADES	A									\$2,675			\$3,344
MOD# 04-002, WEATHER DATA COLLECTION	A												\$340
MOD# 98-002, PRODUCT TAILORING/WARFIGHTER APPLICATIONS	A												\$1,105

	<b>P-1 ITEM NO</b> 75		<b>PAGE NO:</b> 279		Page 2 of 3
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# UNCLASSIFIED



# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: COMM ELECT MODS									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
SPACE WEATHER				{\$1,791}			{\$1,296}			{\$1,156}				
MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN)	A			\$1,791			\$1,296			\$1,156				
JOINT SURVEILLANCE SYSTEM	A			\$7,862			\$1,145							
NORTH WARNING SYSTEM	A			\$7,555										
SHARED EARLY WARNING SYSTEM (SEWS)	A			\$192			\$286			\$1,518			\$285	
MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)	A			\$460			\$466			\$625			\$642	
TOTALS:				\$37,748			\$23,274			\$24,714			\$25,451	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 75					<b>PAGE NO:</b> 280					
												Page 3 of 3		

# UNCLASSIFIED

## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2005

**Modification Title and No:** AN/GPN-22(V) RADAR SET GROUP TRANSMITTER  
**Models of System Affected:** COMMUNICATION ELECTRONICS-AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALs)

**Description/Justification:** AN/GPN-22(V), RADAR SET GROUP TRANSMITTER MODIFICATION: This is a fixed base precision approach radar system providing critical mission support at locations requiring precision approach air traffic control during inclement weather. The AN/GPN-22 utilizes 27-year old technology to develop & radiate radar signals. The transmitter experienced an extremely high failure rate reducing operational availability to an average of 82%, well below the AF Standard of 97%. Modification of the transmitter will improve maintainability & reliability.

**Development Status/Major Development Milestones:** CONTRACT AWARD: JUN 04 DELIVERY: MAR 06

FINANCIAL PLAN \$ (in Actual Dollars)	PY		FY2004		FY2005		FY2006		FY2007		FY2008		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							16	3.59	14	3.2			30	6.79								
Equipment Kits non-recurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Software																						
Interim Contractor Support																						
Other				1.508		5.86								7.368								
<b>Total Procurement Costs</b>				1.508		5.86	16	3.59	14	3.2			30	14.158								
<b>Hardware Installation</b>																						
PY Eqpt (0 kits)																						
FY04 Eqpt (0 kits)																						
FY05 Eqpt (0 kits)																						
FY06 Eqpt (16 kits)							16							16								
FY07 Eqpt (14 kits)									14					14								
FY08 Eqpt (0 kits)																						
<b>Total Installation Costs</b>							16		14					30								
<b>Total Modification Costs</b>				1.508		5.86	16	3.59	14	3.2			30	14.158								
<b>Method of Installation:</b>	UNIT, FIELD INSTALL					<b>Admin. Lead-time(After 1 Oct):</b> 4 Month(s)					<b>Production Lead-time:</b> 2 Month(s)											
<b>Contract Date:</b>	PY		FY2004		FY2005		FY2006	Jan 06	FY2007	Jan 07	FY2008											
<b>Delivery Date:</b>	PY		FY2004		FY2005		FY2006	Mar 06	FY2007	Mar 07	FY2008											
<b>Installations:</b>	PY	FY2004				FY2005				FY2006				FY2007				FY2008				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input											4	6	6	6	6	2						30
Output												4	6	6	6	6	2					30

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<b>INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>Modification Title and No:</b> AN/TPN-19 RADAR SET TRANSMITTER	<b>Models of System Affected:</b> COMMUNICATION ELECTRONICS AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCAL)
<b>Description/Justification:</b> AN/TPN-19 is a deployable Radar Approach Control providing critical mission support at austere locations requiring precision approach air traffic control during inclement weather. It utilizes 32-year-old technology to develop/ radiate radar signals. The transmitter has component obsolescence & diminishing manufacturing sources. Modification of the transmitter will improve the system's maintainability & provide a viable source of repair.	
<b>Development Status/Major Development Milestones:</b> CONTRACT AWARD: DEC 05 DELIVERY: JUN 06	

FINANCIAL PLAN \$ (in Actual Dollars)	PY		FY2004		FY2005		FY2006		FY2007		FY2008		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>							16	4					16	4								
<b>Equipment Kits non-recurring</b>																						
<b>Engineering Change Orders</b>																						
<b>Data</b>																						
<b>Training Equipment</b>																						
<b>Support Equipment</b>																						
<b>Software</b>																						
<b>Interim Contractor Support</b>																						
<b>Other</b>																						
<b>Total Procurement Costs</b>							16	4					16	4								
<b>Hardware Installation</b>																						
<b>PY Eqpt (0 kits)</b>																						
<b>FY04 Eqpt (0 kits)</b>																						
<b>FY05 Eqpt (0 kits)</b>																						
<b>FY06 Eqpt (16 kits)</b>							16						16									
<b>FY07 Eqpt (0 kits)</b>																						
<b>FY08 Eqpt (0 kits)</b>																						
<b>Total Installation Costs</b>							16						16									
<b>Total Modification Costs</b>							16	4					16	4								
<b>Method of Installation:</b> UNIT, FIELD INSTALL	<b>Admin. Lead-time(After 1 Oct):</b> 3 Month(s)						<b>Production Lead-time:</b> 6 Month(s)															
<b>Contract Date:</b> PY		<b>FY2004</b>		<b>FY2005</b>		<b>FY2006</b>	Dec 05	<b>FY2007</b>		<b>FY2008</b>												
<b>Delivery Date:</b> PY		<b>FY2004</b>		<b>FY2005</b>		<b>FY2006</b>	Jun 06	<b>FY2007</b>		<b>FY2008</b>												
<b>Installations:</b>	<b>PY</b>	<b>FY2004</b>				<b>FY2005</b>				<b>FY2006</b>				<b>FY2007</b>				<b>FY2008</b>				<b>Total</b>
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input												4		6	6							16
Output														4		6	6					16

# UNCLASSIFIED

## INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

**DATE:** FEBRUARY 2005

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

**Description/Justification:** Upgrade 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 forecasting, UAV data ingest, and satellite data processing to ingest and produce mission execution products from next generation of weather satellites.

**Development Status/Major Development Milestones:** Initial Operational Capability Jul 05

FINANCIAL PLAN \$ (in Millions)	PY		FY2004		FY2005		FY2006		FY2007		FY2008		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>	3	4.563	2	2.369	2	3.037	2	3.185	2	2.974	2	3.003	13	19.131
<b>Equipment Kits non-recurring</b>														
<b>Engineering Change Orders</b>		0.27		0.15		0.315		0.437		0.5		0.5		2.172
<b>Data</b>														
<b>Training Equipment</b>														
<b>Support Equipment</b>														
<b>Software</b>		0.8		0.45		0.448		0.755		0.736		0.7		3.889
<b>Interim Contractor Support</b>														
<b>Other</b>														
<b>Total Procurement Costs</b>	3	5.633	2	2.969	2	3.8	2	4.377	2	4.21	2	4.203	13	25.192
<b>Hardware Installation</b>														
<b>PY Eqpt (3 kits)</b>	3	0.4											3	0.4
<b>FY04 Eqpt (2 kits)</b>			2	0.2									2	0.2
<b>FY05 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	0.2			2	0.2
<b>FY08 Eqpt (2 kits)</b>											2	0.2	2	0.2
<b>Total Installation Costs</b>	3	0.4	2	0.2	2	0.2	2	0.2	2	0.2	2	0.2	13	1.4
<b>Total Modification Costs</b>	3	6.033	2	3.169	2	4	2	4.577	2	4.41	2	4.403	13	26.592

<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 03	<b>FY2004</b>	Jan 04	<b>FY2005</b>	Jan 05	<b>FY2006</b>	Jan 06	<b>FY2007</b>	Jan 07	<b>FY2008</b>	Jan 08										
<b>Delivery Date:</b>	<b>PY</b>	Jun 03	<b>FY2004</b>	Jun 04	<b>FY2005</b>	Jun 05	<b>FY2006</b>	Jun 06	<b>FY2007</b>	Jun 07	<b>FY2008</b>	Jun 08										
<b>Installations:</b>	<b>PY</b>	<b>FY2004</b>				<b>FY2005</b>				<b>FY2006</b>				<b>FY2007</b>				<b>FY2008</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	3			2				2				2				2				2		13
Output	3			2				2				2				2				2		13

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
79	Night Vision Goggles .....	1
81	Mechanized Material Handling Equipment .....	11
85	Base Procured Equipment .....	29
86	Medical/Dental Equipment .....	33
88	Air Base Operability .....	39
90	Productivity Capital Investments .....	48
91	Mobility Equipment .....	52
93	Items Less Than \$5 Million (Base Support Equipment) .....	61
96	DARP RC135 .....	65
97	DARP MRIGS .....	66

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$59,085	\$17,282	\$11,965	\$20,037	\$20,991	\$22,973	\$23,542	\$23,924
<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.</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 critical night vision equipment.</p> <p>3. The FY04 funding line reflects an approved above threshold reprogramming for \$26.7 million, driven by the Global War on Terrorism.</p> <p>4. FY06 funding procures of the following ground crew goggles, plus test equipment:</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,</p>								
	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 1			Page 1 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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 anti-terrorist operations. The unit is also used by base recovery after-attack teams and by some non-cockpit aircrew members. The goggle is monocular with a third-generation image intensifier.  b. AN/PVS-14 Ground Crew Goggle. This Monocular Night Vision Device is a hand-held, head mounted, helmet mounted, or weapon mounted night vision system that 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 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 fails.  5. FY06 funding procures the following aircrew goggles, plus test equipment:  a. Panoramic Night Vision Goggle (PNVG). This emerging panoramic night vision capability provides the user with an expanded field of view, which enhances situational awareness and confidence to maneuver safely at night. PNVGs provide aircraft personnel with the capability to see the horizon, terrain features, and enemy ground fire, while reducing the potential for air-to-ground fratricide and mid-air collisions during night operations. The PNVG goggle is used by Air Combat Command (ACC), Air Mobility Command (AMC), Air Education and Training Command (AETC), United States Air Forces in Europe (USAFE), Pacific Air Force (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 72833.  b. F4949 Aircrew Goggle. F-4949 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. The goggles are					
	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 2		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES			
<b>Description (continued):</b>  helmet mounted and weigh approximately 28 ounces. F-4949 goggles are used by ACC, AMC, AETC, USAFE, PACAF, AFSPC, AFSOC, ANG and AFRC.  c. 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.  d. 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 manufacturer, Hoffman Engineering Corporation, is transitioning from the ANV-126 to the ANV-126A due to parts obsolescence. The ANV-126A uses state of the art technology and provides enhanced capabilities to the user; this is a commercial item.  e. AN/PAQ-4C - The AN/PAQ-4C is used in conjunction with NVGs to direct weapons fire at night. The aiming light projects a continuous infrared beam along with the weapon's line of fire designating the point of impact on the target. This equipment directs accurate weapons fire at night without detection by the enemy. This item is mounted on numerous types of weapons (e.g., M-16,M-4,M-2, M-60, etc).					
	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 3		Page 3 of 3

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GROUNDCREW GOGGLES (1)		2,976	{\$9,892}	1,682	{\$5,599}	240	{\$864}	149	{\$577}
AN/PVS-7D GROUNDCREW GOGGLES	A	711	\$2,186	1,323	\$4,349	124	\$410	119	\$423
AN/PVS-7D GROUNDCREW GOGGLES	A	71	\$229						
AN/PVS-14 GROUNDCREW GOGGLES	A	1,670	\$5,087	337	\$1,085	100	\$322	20	\$70
AN/PVS-14 GROUNDCREW GOGGLES	A	360	\$1,140						
AN/PVS-15 GROUNDCREW GOGGLES	A	164	\$1,251	22	\$165	16	\$132	10	\$84
AIRCREW GOGGLES (1)		5,801	{\$37,710}	162	{\$9,442}	269	{\$11,001}	388	{\$19,201}
PANORAMIC NIGHT VISION GOGGLES	A	144	\$7,572	145	\$8,444	179	\$10,378	386	\$19,187
PANORAMIC NIGHT VISION GOGGLES	A			17	\$998				
F-4949G AIRCREW GOGGLES	A	5,358	\$28,451			50	\$346	1	\$7
F-4949G AIRCREW GOGGLES	A	32	\$214						
F-4949H AIRCREW GOGGLES	A	267	\$1,472			40	\$277	1	\$7
TEST SETS (1)		753	{\$10,106}	150	{\$2,241}	8	{\$100}	13	{\$259}

	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 4	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TEST SET, INFINITY FOCUS	A	401	\$1,974	68	\$347	5	\$28	3	\$17
TEST SET, INFRARED VIEWER-ANV126	A	48	\$1,109						
TEST SET, INFRARED VIEWER-ANV126A	A	304	\$7,022	82	\$1,894	3	\$73	10	\$243
AN/PAQ-4C	A	2,912	\$1,377						
<b>TOTALS:</b>		12,442	\$59,085	1,994	\$17,282	517	\$11,965	550	\$20,037

**Remarks:**

Cost information is in thousands of dollars.

(1) FY04 quantities listed as separate lines due to split procurement.

	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 5		Page 2 of 2
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# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES						
ITEM / 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										
FY2004	711	\$3,074	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/CECOM/ITT/ROANOK E, VA	Mar-04	Jul-04			
FY2004(2)	71	\$3,224	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/CECOM/LITTON/TEMP E, AZ	Apr-04	Jan-05			
FY2005	1,323	\$3,287	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOK E, VA	Feb-05	Feb-06			
FY2006	124	\$3,305	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOK E, VA	Dec-05	Dec-06	Yes		
FY2007	119	\$3,557	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOK E, VA	Dec-06	Dec-07	Yes		
AN/PVS-14 GROUNDCREW GOGGLES										
FY2004(1)	1,670	\$3,046	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/CECOM/ITT/ROANOK E, VA	Mar-04	Jul-04			
FY2004(1)	360	\$3,166	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/CECOM/LITTON/TEMP E, AZ	Mar-04	Feb-05			
FY2005	337	\$3,220	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMP E, AZ	Feb-05	Feb-06			
FY2006	100	\$3,220	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMP E, AZ	Dec-05	Dec-06	Yes		
FY2007	20	\$3,475	AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Dec-06	Dec-07	Yes		
		<b>P-1 ITEM NO</b> 79			<b>PAGE NO:</b> 6			Page 1 of 5		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			P-1 NOMENCLATURE: NIGHT VISION GOGGLES							
ITEM / 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	
AN/PVS-15 GROUND CREW GOGGLES										
FY2004(3)	164	\$7,628	AFMC/WR-ALC	MIPR/FFP W/OPT	NAVY/LITTON/TEMPE, AZ	May-04	Sep-04			
FY2005	22	\$7,494	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Feb-05	Feb-06			
FY2006	16	\$8,270	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Dec-05	Dec-06	Yes		
FY2007	10	\$8,414	AFMC/WR-ALC	MIPR/OPT/FFP	NAVY/LITTON/TEMPE, AZ	Dec-06	Dec-07	Yes		
AIRCREW GOGGLES(4)										
PANORAMIC NIGHT VISION GOGGLES										
FY2004(4)	144	\$52,584	AFMC/ASC	SS/FFP W/OPT	AF/INSIGHT TECH/LONDONDERRY, NH	Apr-04	Apr-05			
FY2005(4)	145	\$58,237	AFMC/ASC	OPT/FFP	AF/INSIGHT TECH/LONDONDERRY, NH	Oct-04	Oct-05			
FY2005	17	\$58,700	AFMC/ASC	C/FFP W/OPT	UNKNOWN	Jun-05	Jan-06	No	Mar-05	
FY2006	179	\$57,976	AFMC/ASC	OPT/FFP	UNKNOWN	Nov-05	Jun-06	No	Mar-05	
FY2007	386	\$49,707	AFMC/ASC	OPT/FFP	UNKNOWN	Dec-06	Jul-07	No	Mar-05	
		<b>P-1 ITEM NO</b> 79			<b>PAGE NO:</b> 7			Page 2 of 5		

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES						
ITEM / 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	
F-4949G AIRCREW GOGGLES										
FY2004(5)	32	\$6,703	AFMC/WR-ALC	SS/FFP W/OPT	ARMY/CECOM/ITT/ROANOK E, VA	Feb-04	Feb-05			
FY2004(6)	5,358	\$5,310	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Sep-04	Jul-05			
FY2006	50	\$6,920	AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	Dec-05	Oct-06	No	Mar-05	
FY2007	1	\$7,044	AFMC/WR-ALC	OPT/FFP	UNKNOWN	Dec-06	Oct-07	No	Mar-05	
F-4949H AIRCREW GOGGLES										
FY2004(6)	267	\$5,514	AFMC/WR-ALC	OPT/FFP	ITT/ROANAKE, VA	Sep-04	Nov-05			
FY2006	40	\$6,920	AFMC/WR-ALC	C/FP W/OPT	UNKNOWN	Dec-05	Oct-06	No	Mar-05	
FY2007	1	\$7,044	AFMC/WR-ALC	OPT/FFP	UNKNOWN	Dec-06	Oct-07	No	Mar-05	
TEST SETS										
TEST SET, INFINITY FOCUS										
FY2004(7)	401	\$4,923	AFMC/WR-ALC	SS/FFP W/OPT	HOFFMAN ENG/STAMFORD, CT	Jan-04	Mar-04			
FY2005	68	\$5,100	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-05	Mar-05			

	<b>P-1 ITEM NO</b> 79		<b>PAGE NO:</b> 8	Page 3 of 5
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# UNCLASSIFIED

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

**DATE:** FEBRUARY 2005

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

**P-1 NOMENCLATURE:**  
NIGHT VISION GOGGLES

ITEM / 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	5	\$5,500	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-06	Mar-06	Yes	
FY2007	3	\$5,500	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-07	Mar-07	Yes	
TEST SET, INFRARED VIEWER-ANV126									
FY2004(7)	48	\$23,108	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-04	Apr-04		
TEST SET, INFRARED VIEWER-ANV126A									
FY2004(7)	304	\$23,100	AFMC/WR-ALC	SS/FFP W/OPT	HOFFMAN ENG/STAMFORD, CT	Jan-05	Feb-05		
FY2005	82	\$23,100	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-05	Mar-05		
FY2006	3	\$24,250	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-06	Mar-06	Yes	
FY2007	10	\$24,250	AFMC/WR-ALC	OPT/FFP	HOFFMAN ENG/STAMFORD, CT	Jan-07	Mar-07	Yes	
AN/PAQ-4C									
FY2004(8)	2,912	\$473	AFMC/WR-ALC	MIPR/FFP W/OPT	ARMY/AF/INSIGHT TECH/LONDONDERRY, NH	May-04	Aug-04		

**Remarks:**

Cost information is in actual dollars.

**P-1 ITEM NO**  
79

**PAGE NO:**  
9

Page 4 of 5

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES						
ITEM / 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) Basic Contract DAAB07-02-C-J009 w/ 4 option years awarded Mar 04. (2) Basic Contract DAAB07-02-C-J010 w/ 4 option years awarded Apr 04. (3) Basic Contract N00164-99-D-0029 w/ 4 option years awarded May 04. (4) Basic Contract FA8607-04-C-2752 awarded Apr 04 with one option year. (5) Basic Contract DAAB07-96C-J209 w/ 4 option years awarded Feb 04. (6) Basic Contract FA8522-04-D-0015 w/ 1 option awarded 29 Sep 04 (7) Basic Contract F09603-02-D-0071 w/ 4 option years awarded Jan 04. (8) Basic Contract DAAB07-01-D-N204										
	<b>P-1 ITEM NO</b> 79			<b>PAGE NO:</b> 10					Page 5 of 5	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$38,853	\$22,070	\$14,617	\$15,149	\$15,481	\$15,827	\$18,218	\$18,509	
<p><b>Description:</b></p> <p>1. The Mechanized Material Handling Equipment P-1 line provides funding for Mechanized Material Handling Systems (MMHS), Storage Aids Systems (SAS), and Automatic Identification Technology (AIT) projects.</p> <p style="margin-left: 20px;">a. 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 (RSDS); high density storage systems (HDSS); and a variety of SAS equipment including racks, bin shelving, modular cabinets, and mezzanines. Transportation systems generally include equipment such as aircraft passenger loading bridges and inbound/outbound baggage conveyor systems (BCONV) for passenger terminals (PAX); heavy duty freight handling conveyors, pallet build-up/breakdown lift conveyor stations, cargo staging racks, and overhead bridge cranes (OH CRN) for air freight terminal (AFT) systems; roller conveyors and overhead cranes for aerial delivery facility (ADF) systems, narrow aisle vehicle replacements (NAVR); and external aircraft fuel tank storage systems (EAFTSS). 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.</p> <p style="margin-left: 20px;">b. 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. Project funding enables compatibility of Air Force</p>									
	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 11		Page 1 of 2				

# UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT			
<b>Description (continued):</b> 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: Point of Maintenance Initiative (POMX), Mobility Inventory Control Accountability System (MICAS), Air Force Part Marking (AFPM), Online Vehicles Information Management System (OLVIMS), Civil Engineering Readiness System (CERS), Passive Radio Frequency Identification Military Shipping (PRMSL), Radio Frequency Identification (RFID), Radio Frequency Identification Smart Pallet (RFID-SP), Crypto Inventory Control System (CICS), Air Force Armory AIT (AFAA), Civil Engineering Fire Protection (CEFP), Explosive Ordinance AIT (EOA), Combat Ammunition System (CAS), Hazmat AIT Tracking (HAT) and Web Enabled AIT Doc Tool (WEADT).  2. In FY04, the Air Force reprogrammed \$16 million into Mechanized Material Handling Equipment and Congress approved a \$4M above threshold reprogramming to replace the Dover AFB, Delaware, Air Freight Terminal MMHS damaged in the snowstorm of February 2003. Congress added \$6.0M to FY05 funding for the Point of Maintenance/Combat Ammunition System (POM/CAS) initiative (reference Appropriation Conference Report 108-622, 20 Jul 2004, page 229).					
	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 12		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MECHANIZED MATERIAL HANDLING EQUIPMENT			{\$38,853}		{\$22,070}		{\$14,617}		{\$15,149}
AIR COMBAT COMMAND (ACC)					{\$1,318}		{\$531}		{\$833}
EXTERNAL ACFT FUEL TANK STORAGE SYSTEM	A				{\$768}				
LANGLEY AFB, VA (MCP) (1)					\$768				
STORAGE AIDS SYSTEM	A				{\$300}		{\$531}		{\$544}
CANNON AFB, NM							\$231		
HOLLOMAN AFB, NM									\$222
MINOT AFB, ND									\$322
MT HOME AFB, ID							\$300		
SHAW AFB, SC (MCP) (1)					\$300				
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A				{\$250}				{\$289}
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 13				Page 1 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
LANGLEY AFB, VA					\$250				
MT HOME AFB, ID									\$289
AIR EDUCATION & TRAINING COMMAND (AETC)			{\$276}		{\$190}		{\$518}		{\$531}
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{\$276}						{\$300}
LACKLAND AFB, TX			\$276						\$300
STORAGE AIDS SYSTEM	A				{\$190}				{\$231}
VANCE AFB, OK (MCP) (1)					\$190				
AF WIDE									\$231
NARROW AISLE VEHICLE REPLACEMENT	A						{\$518}		
LACKLAND AFB, TX							\$518		
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 14				Page 2 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AF CIVIL ENGINEERING & SUPPORT ACTIVITY (AFCESA)			{\$445}		{\$300}		{\$341}		{\$351}
STORAGE AIDS SYSTEM	A		{\$445}		{\$300}		{\$341}		{\$351}
AF WIDE									\$101
ALTUS AFB, OK									\$250
CANNON AFB, NM					\$200				
SEYMOUR JOHNSON AFB, NC							\$150		
SHAW AFB, SC			\$95				\$191		
WHITEMAN AFB, MO					\$100				
YOKOTA AB, JA			\$350						
AIR FORCE MATERIEL COMMAND (AFMC)			{\$466}		{\$473}		{\$680}		{\$699}
STORAGE AIDS SYSTEM	A		{\$328}		{\$248}		{\$200}		{\$699}

**P-1 ITEM NO**  
81

**PAGE NO:**  
15

Page 3 of 16

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HILL AFB, UT			\$328				\$200		\$699
KIRTLAND AFB, NM					\$248				
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{\$138}		{\$75}		{\$480}		
ROBINS AFB, GA			\$138		\$75		\$480		
OVERHEAD BRIDGE CRANES	A				{\$75}				
ROBINS AFB, GA					\$75				
HIGH DENSITY STORAGE SYSTEM	A				{\$75}				
HILL AFB, UT					\$75				
AIR FORCE RESERVE COMMAND (AFRC)			{\$182}				{\$163}		{\$64}

	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 16	Page 4 of 16
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STORAGE AIDS SYSTEM	A		{\$182}				{\$163}		{\$64}
MPL-ST PAUL IAP, MN			\$182						
AF WIDE							\$163		\$64
AIR FORCE SPACE COMMAND (AFSPC)			{\$232}		{\$200}		{\$404}		{\$415}
STORAGE AIDS SYSTEM	A				{\$200}		{\$404}		{\$415}
MALMSTROM AFB, MT							\$200		
PETERSON AFB, CO					\$200				
AF WIDE							\$204		\$415
OVERHEAD BRIDGE CRANES	A		{\$232}						
FE WARREN AFB, WY (MCP) (1)			\$232						

	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 17	Page 5 of 16
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR MOBILITY COMMAND (AMC)			{\$27,433}		{\$9,014}		{\$8,571}		{\$8,806}
AIR FREIGHT TERMINAL	A		{\$23,881}		{\$6,096}		{\$7,250}		{\$7,956}
AVIANO AB, IT (MCP) (1)					\$300				
CHARLESTON AFB, SC							\$5,000		
DOVER AFB, DE			\$20,000						
ELMENDORF AFB, AK					\$200				
INCIRLIK AB, TU							\$500		
KADENA AB, JA (MCP) (1)			\$3,881				\$1,000		
RAF MILDENHALL UK (MCP) (1)					\$100				
NORFOLK NAS, VA							\$750		
SIGONELLA NAS, IT					\$400				
TRAVIS AFB, CA					\$2,855				
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 18				Page 6 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
YOKOTA AB, JA (MCP) (1)									\$7,956
BAGGAGE CONVEYOR SYS	A		{\$150}		{\$150}		{\$401}		
ELMENDORF AFB, AK					\$150				
MACDILL AFB, FL (MCP) (1)			\$150						
RAF MILDENHALL, UK							\$201		
KEFLAVIK NAS IC							\$200		
HIGH DENSITY STORAGE SYSTEM	A		{\$1,902}		{\$1,150}		{\$800}		{\$550}
DOVER AFB, DE			\$388				\$800		
MCGUIRE AFB, NJ (MCP) (1)			\$950		\$400				
POPE AFB, NC			\$564						
TRAVIS AFB, CA (MCP) (2)					\$750				\$550
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 19				Page 7 of 16	

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PASSENGER TERMINALS	A		{\$1,500}						
RAMSTEIN AB, GE (MCP) (1)			\$1,500						
STORAGE AIDS SYSTEM	A				{\$1,050}		{\$120}		
AF WIDE					\$125		\$120		
DYESS AFB, TX (MCP) (1)					\$200				
MCGUIRE AFB, NJ (MCP) (1)					\$150				
SPANGDAHLEM AB GE (MCP) (1)					\$300				
AERIAL DELIVERY FACILITY	A				{\$393}				{\$300}
DYESS AFB, TX					\$150				
POPE AFB, NC					\$243				
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 20				Page 8 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CHARLESTON AFB, SC (MCP) (1)									\$300
NARROW AISLE VEHICLE REPLACEMENT	A				{\$175}				
GRAND FORKS AFB, ND					\$175				
AIR NATIONAL GUARD (ANG)			{\$947}		{\$1,844}		{\$921}		{\$944}
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{\$494}		{\$1,200}		{\$250}		{\$500}
ANDREWS AFB MD (MCP) (1)					\$250				
BRADLEY ANGB, CT (MCP) (1)					\$200				
ENGLAND ANGB, LA (MCP) (1)			\$80						
NEW ORLEANS ANGB, LA (MCP) (1)							\$250		
MCCONNELL AFB, KS			\$214						
PEASE ANGB, NH			\$200						
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 21				Page 9 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ROSECRANS ANGB, MO (MCP) (1)									\$500
SELFRIDGE ANGB, MI (MCP) (1)					\$250				
SYRACUSE ANGB, NY MCP (1)					\$300				
TOLEDO ANGB, OH (MCP) (1)					\$200				
STORAGE AIDS SYSTEM	A		{\$453}		{\$644}		{\$450}		{\$444}
BUCKLEY ANGB, CO (MCP) (1)					\$144				
CHEYENNE ANGB, WY (MCP) (1)					\$250				\$444
FORT BLISS, TX (ANGB SECURITY FORCES) (MCP) (1)							\$250		
FORT INDIANTOWN GAP ANGB, PA			\$105						
JACKSON ANGB, MS (MCP) (1)			\$150						
LITTLE ROCK ANGB, AR (MCP) (1)					\$250				
RENO ANGB, NV (MCP) (1)							\$200		
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 22				Page 10 of 16	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
WILL ROGERS ANGB, OK			\$198						
HIGH DENSITY STORAGE SYSTEM	A						{\$221}		
NORTH KINGSTON ANGB, RI (MCP) (1)							\$221		
PACIFIC AIR FORCES (PACAF)			{\$334}		{\$750}		{\$264}		{\$272}
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		{\$334}				{\$264}		{\$272}
KADENA AB, JA (MCP) (1)			\$334						\$272
KUNSAN AB, ROK							\$264		
STORAGE AIDS SYSTEM	A				(\$750)				
HICKAM AFB, HI (MCP) (1)					\$750				

	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 23		Page 11 of 16
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
US AIR FORCES EUROPE (USAFE)			{\$601}		{\$250}		{\$316}		{\$324}
NARROW AISLE VEHICLE REPLACEMENT	A		{\$251}						
RAMSTEIN AB, GE			\$164						
RAF MILDENHALL, UK			\$87						
STORAGE AIDS SYSTEM	A				{\$250}				{\$324}
AVIANO AB, IT									\$120
RAF MILDENHALL, UK									\$204
SPANGDAHLEM, AB, GE					\$250				
HIGH DENSITY STORAGE SYSTEM	A						{\$316}		
RAMSTEIN AB, GE							\$316		

	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 24	Page 12 of 16
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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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	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
RECEIVING, STORAGE & DISTRIBUTION SYSTEM	A		(\$350)						
INCIRLIK AB, TU (MCP) (1)			\$350						
USAF-WIDE/AIT			(\$1,937)		(\$1,731)		(\$1,908)		(\$1,910)
AIR FORCE ARMORY AID	A						(\$500)		
KIRTLAND AFB, NM							\$500		
AIR FORCE PART MARKING	A		(\$463)						
ROBINS AFB, GA			\$463						
COMBAT AMMUNITION SYSTEM	A		(\$156)						
AF WIDE			\$156						

	<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 25		Page 13 of 16
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT						
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
CIVIL ENGINEERING FIRE PROTECTION	A						{\$608}			
TYNDALL AFB, FL							\$608			
CIVIL ENGINEERING READINESS SYSTEM	A				{\$800}					
AF WIDE					\$800					
CRYPTO INVENTORY CONTROL SYSTEM	A						{\$800}			
LACKLAND AFB, TX							\$800			
EXPLOSIVE ORDINANCE AIT	A				{\$400}					
TYNDALL AFB, FL					\$400					
HAZMAT AIT TRACKING	A				{\$231}					
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 26				Page 14 of 16		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
EDWARDS AFB, CA					\$231				
MOBILITY INVENTORY CONTROL ACCOUNTABILITY SYSTEM	A		{\$100}						
AF WIDE			\$100						
ONLINE VEHICLE INFO MANAGEMENT SYSTEM	A		{\$607}						
ROBINS AFB, GA			\$607						
PASSIVE RADIO FREQUENCY MILITARY SHIPPING LABELS	A		{\$611}		{\$300}				
AF WIDE			\$611		\$300				
RADIO FREQUENCY IDENTIFICATION	A								{\$550}
SHAW AFB, SC									\$550
		<b>P-1 ITEM NO</b> 81		<b>PAGE NO:</b> 27				Page 15 of 16	

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
RADIO FREQUENCY IDENTIFICATION-SMART PALLET	A								{\$650}
DOVER AFB, DE									\$650
WEB ENABLED AIT DOC TOOL	A								{\$710}
MAXWELL AFB-GUNTER ANNEX, AL									\$710
USAF-WIDE/POMX			{\$6,000}		{\$6,000}				
WORLDWIDE CONGRESSIONAL ADD	A		\$6,000		\$6,000				
TOTALS:			\$38,853		\$22,070		\$14,617		\$15,149
<p><b>Remarks:</b>                      Cost information is in thousands of dollars.                       (1) (MCP) - MMHS Projects associated with Military Construction Projects.</p>									
<b>P-1 ITEM NO</b> 81			<b>PAGE NO:</b> 28			Page 16 of 16			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$45,182	\$11,357	\$23,188	\$11,851	\$12,163	\$12,377	\$6,951	\$7,068	
<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, guard, and reserve forces. The program supports installations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; beddown of new weapon systems; reorganizations; natural disasters; new operational methods to increase efficiency and safety; and energy conservation initiatives.</p> <p>3. Requirements throughout Air Education and Training Command (AETC) drive the increased funding from FY05 to FY06. The funding supports Air University's professional and educational development through specialized equipment such as anechoic chamber equipment, a transmission electron microscope, an imaging Fourier-transform infrared spectrometer, and a vertical wind tunnel. Funding is also required for equipment supporting AETC's base operating functions, aircraft maintenance, and fire fighter training such as pre-paint booth inserts, a KC-135 mobile tail enclosure, a three-story live-fire simulator, and a structural fire trainer. AETC also requires funding for general skills training equipment such as a vehicle driving simulator, an aircraft sortie generation simulator, and a deployable shelter for the virtual weapons simulator.</p>									
	<b>P-1 ITEM NO</b> 85		<b>PAGE NO:</b> 29		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT			
<b>Description (continued):</b>  4. BPE requirements programmed by Air Force major commands and/or field operating agencies are displayed on the following P-40A Budget Exhibit.  5. The following project was added by Congress in the FY05 appropriation: Combat Arms Training System, \$3.0M. Reference Appropriation Conference Report 108-622, 20 Jul 2004, page 229.  6. BPE received \$34.745M in the FY04 supplemental.					
	<b>P-1 ITEM NO</b> 85		<b>PAGE NO:</b> 30		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)							DATE: FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PACIFIC AIR FORCES	A		\$537		\$554		\$582		\$605
AF SPEC OPERATIONS CMD	A		\$560		\$579		\$607		\$630
AIR COMBAT CMD	A		\$4,930		\$2,772		\$2,911		\$3,016
US AIR FORCES EUROPE	A		\$624		\$639		\$670		\$694
AIR FORCE SPACE CMD	A		\$439		\$462		\$476		\$494
AIR MOBILITY CMD	A		\$406						
AIR EDUCATION & TRNG CMD	A		\$2,228		\$2,104		\$16,150		\$4,555
US AIR FORCE ACADEMY	A		\$1,198		\$1,247		\$1,309		\$1,355
AF CIVIL ENGR SPT AGENCY	A						\$483		\$502
AIR NATIONAL GUARD	A		\$3,000		\$3,000				
AIR FORCE MATERIEL CMD	A		\$31,260						
<b>TOTALS:</b>			\$45,182		\$11,357		\$23,188		\$11,851
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 85			<b>PAGE NO:</b> 31			Page 1 of 2	

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>							<b>DATE:</b> FEBRUARY 2005				
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT							
<b>PROCUREMENT ITEMS</b>	<b>ID CODE</b>	<b>FY2004</b>		<b>FY2005</b>		<b>FY2006</b>		<b>FY2007</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>		
Cost information is in thousands of dollars.											
		<b>P-1 ITEM NO</b> 85				<b>PAGE NO:</b> 32		Page 2 of 2			

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$33,720	\$13,965	\$14,695	\$16,998	\$16,930	\$18,802	\$19,239	\$16,622
<p><b>Description:</b></p> <p>1. Funding provides the medical equipment necessary to support the Combatant Commander across the full spectrum of military operations. A robust, scalable and rapidly deployable medical capability is essential for medical force protection, prevention and casualty care. Current doctrine and diminished forward basing requires the Air Force to maintain the majority of medical War Reserve Materiel (WRM) in CONUS. To meet the combatant commander's needs, expeditionary assets must be fully mission capable, ready for any tasking, and rapidly transportable to any location in the world. Upon arrival, WRM assets must be quickly assembled and capable of treating casualties within hours. In many cases, typical hospital equipment is too fragile, too heavy, or incompatible with operations in certain climates/threat environments (e.g., cold, hot, dry, humid, chemically contaminated). Aeromedical Evacuation (AE) equipment must also meet stringent requirements for use on multiple airframes. Medical WRM equipment provides two critical capabilities to the Joint Force Commander: first, it provides the lifesaving capability to keep wounded-in-action personnel alive from point of injury and through the aeromedical evacuation process so more definitive care can be provided, and secondly, it enables medical staffs to return noncritically injured personnel to their units as quickly as possible.</p> <p>2. The following WRM equipment items/projects are funded by this program:</p> <p style="margin-left: 20px;">a. Modernization and Replacement of Centrally Managed Equipment (CME) items: This program provides for replacement and modernization of centrally-managed and procured WRM equipment items. This funding procures equipment items and components using a mission-based priority system. Funding constraints often dictate procuring less than the inventory objective of each item. To maximize the number of 100% deployable units, some of each of the following requirements are being procured:</p> <p style="margin-left: 40px;">(1) Communications Equipment</p>								
	<b>P-1 ITEM NO</b> 86		<b>PAGE NO:</b> 33			Page 1 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT			
<b>Description (continued):</b>  (2) Field Deployable Environmental Control Units (3) Generators, Power Distribution Systems  b. Deployable Oxygen System (DOS): DOS will provide United States Pharmacopoeia 93% therapeutic medical grade oxygen in deployed scenarios including wartime operations, deterrence and contingency operations, peacetime engagement, crisis response, and humanitarian relief operations. Aeromedical evacuation and ground-based medical missions require an oxygen generating system capable of providing therapeutic oxygen to patients and to oxygen-driven life support equipment both in-flight and on the ground. The current methods employed to meet these requirements are becoming logistically unsupportable.  The current system of using liquid oxygen stores is no longer sustainable. As the Air Force transitioned to on-board oxygen generating systems for its aircraft, liquid oxygen resupply capability located in theaters of operations virtually disappeared. This, combined with recent deployments of aeromedical evacuation and ground medical units farther forward in the combat zone, has led to heightened difficulties in oxygen storage sustainment. An advanced oxygen production and storage system is needed to overcome these obstacles.  Multiple oxygen production and storage systems are presently commercially available. These systems meet many existing capability needs, however, a spiral development approach is essential to fully meet our deployable oxygen capability requirements. Reference PE 64617F for Research and Development funds associated with the Deployable Oxygen System program.  c. Theater Medical Information Program (TMIP): TMIP incorporates all DoD medical information systems that have a theater application. Wartime medical communication requirements differ radically from peacetime requirements. Commanders require real-time situational awareness information such as wounded-in-action personnel and their treatment--type, numbers, location; reports detailing casualty location and medical status ranging from the front line to rear echelons; logistics resupply data--resource consumption information, supply inventories, logistical pipeline data, material in-transit visibility data, what materiel can be diverted to satisfy a higher priority; and medical personnel--matching medical/surgical capability and availability/locations with wounded-in-action requirements.  The current medical wartime communications infrastructure consists of readily available land lines and radio technology that dates from the late 1950s.					
	<b>P-1 ITEM NO</b> 86		<b>PAGE NO:</b> 34		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT			
<b>Description (continued):</b> <p>TMIP will provide inter/intra-unit medical communications systems for Air Force theater medical units through use of secure and non-secure telephone lines, wireless, and satellite media. The result will be a deployable, organic medical information infrastructure that is capable of transmitting voice, electronic mail, data and images, and is interoperable with other services/communications systems. It will integrate new and existing high frequency and ultra high frequency radios, satellite communications, and computer systems. Funding provides information management hardware required for the TMIP system in our medical assemblies.</p> <p>d. Patient Support Pallet (PSP): No FY06 funds requested.</p> <p>e. Aeromedical Patient Isolation Unit: Based on Strategic Planning Guidance, the Air Force integrated capabilities review and risk assesment process outlined a critical gap in capability to aeromedically evacuate contagious patients. Contagious patients are those personnel exposed to biological threat agents in the operating environment (e.g. Ebola, Marburg, Anthrax, Smallpox). The patient isolation unit provides a high level of universal protection for aircraft occupants (medical personnel/noncontagious patients/aeromedical evacuation mission crew) while still enabling medical personnel to render uninterrupted patient care in the air. Finally, the patient isolation unit is designed to prevent contamination of the airlift platform (e.g., C-17, KC-135, etc.) preserving mission readiness for the next airlift requirement. This requirement is linked to FY06 Research and Development funding in PE 41133F Aeromedical Evacuation. No FY06 funds requested. Procurement of this capability begins FY07.</p>					
	<b>P-1 ITEM NO</b> 86		<b>PAGE NO:</b> 35		Page 3 of 3

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MODERNIZATION & REPLACEMENT	A		\$16,839		\$6,340		\$6,500		\$6,750
DEPLOYABLE OXYGEN SYSTEM	A		\$6,955		\$6,125		\$6,000		\$6,000
THEATER MEDICAL INFO PROGRAM	A		\$5,150		\$1,500		\$2,195		\$2,515
PATIENT SUPPORT PALLET	A		\$4,776						
AEROMEDICAL PATIENT ISOLATION UNIT	A								\$1,733
<b>TOTALS:</b>			\$33,720		\$13,965		\$14,695		\$16,998

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 86		<b>PAGE NO:</b> 36		Page 1 of 1
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT						
ITEM / 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	
MODERNIZATION & REPLACEMENT										
FY2004(1-2)			AFMLO	C/FFP	MULTIPLE	Jan-04	Mar-04			
FY2005(1-2)			AFMLO	C/FFP	MULTIPLE	Jan-05	Mar-05			
FY2006(1-2)			AFMLO	C/FFP	UNKNOWN	Jan-06	Mar-06	Yes		
FY2007(1-2)			AFMLO	C/FFP	UNKNOWN	Jan-07	Mar-07	Yes		
DEPLOYABLE OXYGEN SYSTEM										
FY2004(1)			AFMLO	C/FFP	MULTIPLE	Apr-04	Oct-04			
FY2005(1)			AFMLO	C/FFP	UNKNOWN	Mar-05	Aug-05	Yes		
FY2006(1)			AFMLO	C/FFP	UNKNOWN	Mar-06	May-06	Yes		
FY2007(1)			AFMLO	C/FFP	UNKNOWN	Mar-07	May-07	Yes		
THEATER MEDICAL INFO PROGRAM										
FY2004(1,3)			AFMC/HSC	C/FFP	MULTIPLE	Jan-04	Feb-04			
FY2005(1,3)			AFMC/HSC	C/FFP	MULTIPLE	Jan-05	Feb-05			
		<b>P-1 ITEM NO</b> 86			<b>PAGE NO:</b> 37			Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT						
ITEM / 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(1,3)			AFMC/HSC	C/FFP	UNKNOWN	Jan-06	Feb-07	Yes		
FY2007(1,3)			AFMC/HSC	C/FFP	UNKNOWN	Jan-07	Feb-07	Yes		
PATIENT SUPPORT PALLET										
FY2004			AFMC/HSC	SS/FFP	ARINC ENG. SVCS LLC/OK CITY, OK	Feb-04	Dec-04			
AEROMEDICAL PATIENT ISOLATION UNIT										
FY2007(1)			AFMC/HSC	C/FFP	UNKNOWN	Jan-07	Mar-07	No	Nov-06	
<p><b>Remarks:</b></p> <p>(1) Quantities and unit costs vary based on size/configuration of medical War Reserve Materiel (WRM) assemblage and components required.</p> <p>(2) AFMLO (Air Force Medical Logistics Office, Fort Detrick, Maryland) uses various contracts at multiple Air Logistic Centers (ALCs) such as Motorola Inc, Hanover, MD; Harris Corporation, Rochester, NY; Radian Inc, Richmond, VA; Hunter Manufacturing, Solon, OH; and other manufacturers throughout the US. The award date and date of first delivery represent the first award of funding and the initial delivery of equipment.</p> <p>(3) AFMC/HSC functions as the TMIP oversight office and integration facility for the AF/SG. AFMC/HSC uses various contracts with GSA to purchase additional TMIP items which do not require system integration.</p>										
			<b>P-1 ITEM NO</b> 86			<b>PAGE NO:</b> 38	Page 2 of 2			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY				
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$21,127	\$5,411	\$5,463	\$5,540	\$6,418	\$6,752	\$6,899	\$7,078
<p><b>Description:</b></p> <p>1. Air Base Operability (ABO), also known as Contingency Operations (CO) 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 (UXO), 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>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. Air Force Wright Laboratory developed this multi-purpose platform under the direction/funding of the Office of Science and Technology (OST) Joint Robotics Program. OST through Wright Laboratory worked with a vendor to take initial prototypes of this platform directly from the laboratory to the field. FY06 funds continue procurement of the ARTS. For corresponding Research and Development (R&amp;D) funding, reference Program Element 0604617F of the Air Force R&amp;D Descriptive Summaries.</p> <p>(1) ARTS Engineering Change Orders (ECOs) - funding provides a series of minor design changes to production units and allows a standard operational configuration.</p>								
	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 39			Page 1 of 3		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY			
<b>Description (continued):</b> <p>(2) ARTS Radios - generate radio frequency channels for remote control of ARTS robotized platform; primary means for controlling ARTS.</p> <p>B. ARTS Attachments/EOD Support Equipment, as represented by the items below, dramatically improve response time when neutralizing explosive hazards, thus saving lives and reducing damage. The Navy Explosive Ordnance Technology Division (NAVEODTECHDIV) is the OSD Executive Agent for joint service EOD R&amp;D (reference PE 64617F of the Air Force R&amp;D Descriptive). Production funding is provided by individual services. The Air Force requires the following equipment for the safety of deployed personnel and expedient removal of unexploded ordnance hazards.</p> <ol style="list-style-type: none"><li>1) 90MM Water Cannons: No FY06 funds requested.</li><li>2) Recoilless, Multidirectional Water Cannon Mount: No FY06 funds requested.</li><li>3) ARTS Alternate Control System: No FY06 funds requested.</li><li>4) Improved Operator Control Station (IOCS): No FY06 funds requested.</li><li>5) Data Feedback System (DFS): A combination of hardware and software that enables data collection and processing for the ARTS platform, including GPS position and velocity data. Enables communication in the Joint Architecture for Unmanned Systems (JAUS) format between the remotely controlled platform and its Operator Control Station (OCS). It also provides status monitoring of temperature, oil, fuel levels, etc.</li><li>6) ARTS Box Rake: Attachment which rakes up and pushes to the side anti-personnel mines and other small munitions to mitigate explosive hazards.</li><li>7) ARTS Trailers: Capability to transport ARTS for rapid employment or redeployment.</li></ol>					
	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 40		Page 2 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY			
<b>Description (continued):</b>  8) Submunitions Clearance System (SCS) (Formerly Tele-operated Remote Aiming Platform - TRAP): allows standoff disruption of small munitions.  9) Remote Ordnance Neutralization System (RONS): No FY06 funds requested.  10) RONS Continuous Improvement System: P3I for enhanced robotic and communications-electronic capabilities to the RONS.  11) EOD Small Robots (includes the F6A and other commercial equivalents to MK-VI Andros robots): No FY06 funds requested.					
	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 41		Page 3 of 3

UNCLASSIFIED

# UNCLASSIFIED

<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY
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WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
A. ARTS		11		{\$5,128}	6		{\$2,707}	30		{\$2,001}	42		{\$2,285}
A.1. ARTS HARDWARE	A	11	\$232,000	\$2,552	6	\$222,000	\$1,332						
A.2. ARTS ENGINEERING CHANGE ORDERS (ECO)				\$2,256			\$705			\$661			\$690
A.3. ARTS RADIOS	A							30	\$28,000	\$840	42	\$29,400	\$1,235
A.4. INTERIM CONTRACTOR SUPPORT (ICS)				\$320			\$370						
A.5. PROGRAM MANAGEMENT ADMINISTRATION (1)							\$300			\$500			\$360
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT		247		{\$15,999}	103		{\$2,704}	122		{\$3,462}	86		{\$3,255}
B.1. 90MM WATER CANNON	A	12	\$17,167	\$206									
B.2. RECOILLESS, MULTIDIRECTIONAL WATER CANNON MOUNT	A	39	\$21,179	\$826	6	\$22,333	\$134						
B.3. ARTS ALTERNATE CONTROL SYSTEM	A	66	\$48,424	\$3,196	6	\$56,667	\$340						
B.4. IMPROVED OPERATOR CONTROL STATION (IOCS)	A	65	\$36,523	\$2,374	7	\$43,572	\$305						
B.5. DATA FEEDBACK SYSTEM (DFS) (2)	A				50	\$30,000	\$1,500	22	\$31,500	\$693			
B.6. ARTS BOX RAKE	A							30	\$25,000	\$750	42	\$26,450	\$1,111

	<b>P-1 ITEM NO</b> 88	<b>PAGE NO:</b> 42	Page 1 of 2
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# UNCLASSIFIED

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: AIR BASE OPERABILITY									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
B.7. ARTS TRAILERS	A				34	\$12,500	\$425	38	\$13,125	\$499				
B.8. SUBMUNITIONS CLEARANCE SYSTEM (SCS) (FORMERLY TRAP)	A							20	\$52,005	\$1,040	24	\$54,400	\$1,306	
B.9. REMOTE ORDNANCE NEUTRALIZATION SYSTEM (RONS)	A	25	\$178,000	\$4,450										
B.10 RONS CONTINUOUS IMPROVEMENT SYSTEM	A							12	\$40,000	\$480	20	\$41,935	\$839	
B.11 EOD SMALL ROBOTS	A	40	\$123,675	\$4,947										
TOTALS:				\$21,127			\$5,411			\$5,463			\$5,540	
<p><b>Remarks:</b>                      Total Cost information is in thousands of dollars.</p> <p>(1) Program Management Administration (PMA) funding is higher in FY06 due to an increase in the production phase workload. It will support efforts such as shipping and inventory control, training preparation, first article testing, and engineering change proposals. In FY07 the PMA requirement tapers off as items move from production to sustainment.</p> <p>(2) DFS is a Preplanned Product Improvement plug-and-play enhancement to the Improved Control System.</p>														
				<b>P-1 ITEM NO</b> 88					<b>PAGE NO:</b> 43					
												Page 2 of 2		



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR BASE OPERABILITY						
ITEM / 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	
A. ARTS										
A.1. ARTS HARDWARE										
FY2004(1-2)	11	\$232,000	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Feb-04	Jul-04			
FY2005(1)	6	\$222,000	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Dec-04	Apr-05			
A.2. ARTS RADIOS										
FY2006	30	\$28,000	AFMC/AAC	C/FFP W/OPT	UNKNOWN	Mar-06	Sep-06	Yes		
FY2007	42	\$29,400	AFMC/AAC	OPT/FFP	UNKNOWN	Jan-07	Mar-07	Yes		
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT										
B.1. 90MM WATER CANNON										
FY2004(3)	12	\$17,167	AFMC/AAC	MIPR/OTH/FFP	NAVY/NAVY/NAVEODTECH DIV/INDIANHEAD, MD	Apr-04	Jul-04			

	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 44		Page 1 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR BASE OPERABILITY						
ITEM / 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.2. RECOILLESS, MULTIDIRECTIONAL WATER CANNON MOUNT										
FY2004(1)	39	\$21,179	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Feb-04	Apr-04			
FY2005(1)	6	\$22,333	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Jan-05	May-05			
B.3. ARTS ALTERNATE CONTROL SYSTEM										
FY2004(1)	66	\$48,424	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Jul-04	Mar-05			
FY2005(1)	6	\$56,667	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Mar-05	Feb-06	Yes		
B.4. IMPROVED OPERATOR CONTROL STATION (IOCS)										
FY2004(1)	65	\$36,523	AFMC/AAC	OPT/FFP W/OPT	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Apr-04	Dec-04			
FY2005(1)	7	\$43,572	AFMC/AAC	OPT/FFP W/OPT	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	Jan-05	Aug-05			

	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 45	Page 2 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR BASE OPERABILITY						
ITEM / 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.5. DATA FEEDBACK SYSTEM (DFS)										
FY2005(1)	50	\$30,000	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES/SOUTH ROYALTON, VT	May-05	Oct-05	Yes		
FY2006	22	\$31,500	AFMC/AAC	C/FFP W/OPT	UNKNOWN	Dec-05	Aug-06	Yes		
B.6. ARTS BOX RAKE										
FY2006	30	\$25,000	AFMC/AAC	C/FFP W/OPT	UNKNOWN	Feb-06	Sep-06	Yes		
FY2007	42	\$26,450	AFMC/AAC	OPT/FFP	UNKNOWN	Dec-06	Apr-07	Yes		
B.7. ARTS TRAILERS										
FY2005	34	\$12,500	AFMC/AAC	C/FFP	UNKNOWN	May-05	Nov-05	Yes		
FY2006	38	\$13,125	AFMC/AAC	OPT/FFP	UNKNOWN	Dec-05	Mar-06	Yes		
B.8. SUBMUNITIONS CLEARANCE SYSTEM (SCS) (FORMERLY TRAP)										
FY2006	20	\$52,005	AFMC/AAC	OPT/FFP W/OPT	PRECISION REMOTE, INC/SAN FRANCISCO, CA	Apr-06	Oct-06	No	Jul-05	
FY2007	24	\$54,400	AFMC/AAC	OPT/FFP	PRECISION REMOTE, INC/SAN FRANCISCO, CA	Dec-06	Mar-07	No	Jul-05	

	<b>P-1 ITEM NO</b> 88		<b>PAGE NO:</b> 46	Page 3 of 4
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY						
ITEM / 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.9. REMOTE ORDNANCE NEUTRALIZATION SYSTEM (RONS)										
FY2004(4)	25	\$178,000	AFMC/AAC	MIPR/C/FFP	NAVY/REMOTEC, INC/OAK RIDGE, TN	Feb-04	Jun-04			
B.10 RONS CONTINUOUS IMPROVEMENT SYSTEM										
FY2006	12	\$40,000	AFMC/AAC	C/FFP	UNKNOWN	Apr-06	Nov-06	Yes		
FY2007	20	\$41,935	AFMC/AAC	C/FFP	UNKNOWN	Jan-07	Mar-07	Yes		
B.11 EOD SMALL ROBOTS										
FY2004(4)	40	\$123,675	AFMC/AAC	MIPR/C/FFP	NAVY/REMOTEC, INC/OAK RIDGE, TN	Feb-04	Nov-04			
<b>Remarks:</b> Cost information is in actual dollars.  (1) Sole Source (SS) contract, F08635-02-C-0100, awarded June 2002 with three option years. (2) ARTS hardware unit cost in FY04 reflects a charge for surging production. (3) Navy is the manufacturer of this item. (4) GSA Contract #GS07F0538M awarded February 2004 with no options.										
			<b>P-1 ITEM NO</b> 88			<b>PAGE NO:</b> 47	Page 4 of 4			

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PRODUCTIVITY CAPITAL INVESTMENTS				
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$2,955	\$5,454	\$5,324	\$5,606	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. This P-1 line (previously called Productivity Investments) funds Air Force Productivity Capital Investment (PCI) projects in the Productivity Investment Fund (PIF) investment program. Investment 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. The users, which are the 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. FY06 funding provides support for PIF projects.</p> <p style="margin-left: 20px;">a. 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. To date, projects have yielded life cycle savings of over \$3 for every \$1 invested.</p> <p style="margin-left: 20px;">b. This funding line previously included Fast Payback Capital (FASCAP) projects. However, FASCAPs projects must cost less than \$200,000 and amortize in less than two years, IAW AFI 38-301. Because the investment threshold is currently \$250,000, all FASCAP projects are now covered in O&amp;M.</p>								
	<b>P-1 ITEM NO</b> 90		<b>PAGE NO:</b> 48		Page 1 of 1			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> PRODUCTIVITY CAPITAL INVESTMENTS
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. PIF			(\$2,955)		(\$5,454)		{ \$5,324 }		(\$5,606)
607TH COMBAT COMMUNICATIONS SQUADRON MODERNIZATION (PACAF)	A		\$1,100		\$1,500		\$3,487		
PAVEMENT DE-ICER (USAFE)	A		\$280						
AF WIDE PROJECTS	A		\$1,575		\$3,954		\$1,837		\$5,606
<b>TOTALS:</b>			\$2,955		\$5,454		\$5,324		\$5,606

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 90		<b>PAGE NO:</b> 49	Page 1 of 1
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY CAPITAL INVESTMENTS						
ITEM / 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)										
FY2004		\$1,100	HQ PACAF	DO/FFP	NORTHROP GRUMAN COMPUTING SYSTEM/GREENBELT, MD	Aug-04	Mar-05			
FY2005		\$1,500	HQ PACAF	DO/FFP	NORTHROP GRUMAN COMPUTING SYSTEM/GREENBELT, MD	Aug-05	Mar-06	Yes		
FY2006		\$3,487	HQ PACAF	DO/FFP	NORTHROP GRUMAN COMPUTING SYSTEM/GREENBELT, MD	Aug-06	Mar-07	Yes		
PAVEMENT DE-ICER (USAFE)										
FY2004		\$280	HQ USAF	SS/FFP	THOME-BORMANN/LUTZKA MPEN, GE	Oct-04	Dec-04			
AF WIDE PROJECTS										
FY2004		\$1,575		/	UNKNOWN					
FY2005		\$3,954		/	UNKNOWN					
FY2006		\$1,837		/	UNKNOWN					

	<b>P-1 ITEM NO</b> 90		<b>PAGE NO:</b> 50	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY CAPITAL INVESTMENTS						
ITEM / 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		\$5,606		/	UNKNOWN					
<b>Remarks:</b> Cost information is in thousands of dollars.										
	<b>P-1 ITEM NO</b> 90			<b>PAGE NO:</b> 51					Page 2 of 2	

UNCLASSIFIED



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT					
	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$92,261	\$267,077	\$23,370	\$27,033	\$37,712	\$59,167	\$74,014	\$31,892	
<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 Industrial Operations (d) package continues to provide power generation, maintenance shops, airfield systems, water distribution, field exchange, and mortuary infrastructure. The BEAR Initial Flightline (e) and Follow-on Flightline (f) packages consist of revetment kits, airfield lighting, aircraft hangars, fire stations, and numerous additional systems to support flight line operations. Costs include inventory reconstitution, spares and consumables, repairs, and procurement of new equipment for upgrades or full set replacement. In the past, these assets proved to be invaluable in supporting Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, Desert Focus, Desert Fox, Noble Anvil, and Allied Force. More recently, BEAR demonstrated its critical role in support of Operations Enduring Freedom and Iraqi Freedom. Continued taskings of BEAR assets nearly depleted available inventory. Current procurements support the replacement and replenishment of this critical enabler.</p> <p>2. <b>TRAINING EQUIPMENT:</b> Training equipment will provide 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. No FY06 funds requested.</p>									
	<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 52		Page 1 of 2				

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT			
<b>Description (continued):</b> 3. CONVERSION KITS: No FY06 funds requested. 4. SET AGGREGATION: Set aggregation provides for the ordering, receipt, storage, packaging, and shipping management of new BEAR sets. The aggregation facility is located in Albany, GA. 5. PROGRAM MANAGEMENT ADMINISTRATION (PMA): No FY 06 funds requested. 6. MODERNIZATION: The AF will continue to modernize major BEAR components to replace obsolete items (e.g. aircraft hangars, heaters, kitchens, refrigerators, water systems, and power generation). The AF will also perform a force module configuration block upgrade of BEAR sets procured in previous years (FY03-04). The block upgrade is necessary to standardize force module set configurations based upon changes from a recent AF Allowance Standard review.					
	<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 53		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

## WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

DATE: FEBRUARY 2005

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

**P-1 NOMENCLATURE:**  
MOBILITY EQUIPMENT

WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007		
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
MOBILITY EQUIPMENT (SETS)				{ \$92,261 }	1,178		{ \$267,077 }	4		{ \$23,370 }	1,095		{ \$27,033 }
HARVEST FALCON HOUSEKEEPING	A			\$50,580									
HARVEST FALCON INDUSTRIAL OPERATIONS	A			\$8,832									
HARVEST FALCON INITIAL FLIGHTLINE	A			\$10,773									
HARVEST FALCON FOLLOW-ON FLIGHTLINE	A			\$2,186									
HARVEST EAGLE HOUSEKEEPING	A			\$19,612									
A. SWIFT BEAR 150	A							1	\$967,380	\$967			
B. BEAR 550 INITIAL HOUSEKEEPING	A				9	\$6,306,000	\$56,754	2	\$6,405,560	\$12,811			
C. BEAR 550 FOLLOW-ON HOUSEKEEPING	A				21	\$5,077,000	\$106,617						
D. BEAR INDUSTRIAL OPERATIONS	A				1	\$6,508,000	\$6,508						
E. BEAR INITIAL FLIGHTLINE	A				2	\$8,479,000	\$16,958						
F. BEAR FOLLOW-ON FLIGHTLINE	A				7	\$970,000	\$6,790						
TRAINING EQUIPMENT	A			\$278			\$6,391						\$500

**P-1 ITEM NO**  
91

**PAGE NO:**  
54

Page 1 of 2

# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)										DATE: FEBRUARY 2005				
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					P-1 NOMENCLATURE: MOBILITY EQUIPMENT									
WEAPON SYSTEM COST ELEMENTS	ID CODE	FY2004			FY2005			FY2006			FY2007			
		QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	
CONVERSION KITS							\$22,523							
SET AGGREGATION							\$7,862			\$8,045				
PROGRAM MANAGEMENT ADMINISTRATION							\$1,657							
MODERNIZATION					1,138		{\$35,017}	1		{\$1,547}	1,095		{\$26,533}	
AIRCRAFT HANGARS	A				10	\$508,000	\$5,080							
HEATERS	A				1,064	\$13,957	\$14,850				1,064	\$14,424	\$15,347	
SINGLE PALLET EXPEDITIONARY KITCHENS	A				35	\$78,371	\$2,743							
ADVANCE DESIGN REFRIGERATORS	A				28	\$80,786	\$2,262				28	\$25,860	\$724	
FORCE MODULE WATER SYSTEM	A				1	\$1,523,000	\$1,523	1	\$1,546,500	\$1,547	2	\$1,832,500	\$3,665	
FORCE MODULE CONFIGURATION BLOCK UPGRADE	A						\$8,559							
POWER GENERATION	A										1	\$6,797,051	\$6,797	
TOTALS:				\$92,261			\$267,077			\$23,370			\$27,033	
<b>Remarks:</b> Total Cost information is in thousands of dollars.														
				<b>P-1 ITEM NO</b> 91					<b>PAGE NO:</b> 55					
												Page 2 of 2		

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MOBILITY EQUIPMENT						
ITEM / 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)										
HARVEST FALCON HOUSEKEEPING										
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05			
HARVEST FALCON INDUSTRIAL OPERATIONS										
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05			
HARVEST FALCON INITIAL FLIGHTLINE										
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05			
HARVEST FALCON FOLLOW-ON FLIGHTLINE										
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05			
HARVEST EAGLE HOUSEKEEPING										
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05			
SWIFT BEAR 150										
		<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 56		Page 1 of 5				

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT
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ITEM / 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)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-06	Feb-07	Yes	
BEAR 550 INITIAL HOUSEKEEPING									
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Oct-07	Yes	
FY2006(2)			AFMC/WR-ALC	C/FFP	UNKNOWN	May-06	Apr-07	Yes	
BEAR 550 FOLLOW-ON HOUSEKEEPING									
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Jun-07	Yes	
BEAR INDUSTRIAL OPERATIONS									
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Nov-07	Yes	
BEAR INITIAL FLIGHTLINE									
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Dec-07	Yes	
BEAR FOLLOW-ON FLIGHTLINE									
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Jul-08	Yes	

	<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 57		Page 2 of 5
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT
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ITEM / 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
TRAINING EQUIPMENT									
FY2004(1-2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Mar-04	Feb-05		
FY2005(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-05	Feb-06	Yes	
FY2007(1-2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Mar-07	Feb-08	Yes	
CONVERSION KITS									
FY2005(2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Jan-05	Jun-05		
MODERNIZATION									
AIRCRAFT HANGARS									
FY2005(2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Dec-05	Apr-07	Yes	
HEATERS									
FY2005(2)			AFMC/WR-ALC	C/FFP	MULTIPLE	Nov-04	Aug-05		

	<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 58	Page 3 of 5
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MOBILITY EQUIPMENT						
ITEM / 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(2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Dec-06	Sep-07	Yes		
SINGLE PALLET EXPEDITIONARY KITCHENS										
FY2005(2)			AFMC/WR-ALC	REQN/FFP	MULTIPLE	Dec-04	Mar-06			
ADVANCE DESIGN REFRIGERATORS										
FY2005(3)			AFMC/WR-ALC	MIPR/OPT/FFP W/OPT	ARMY/AAR MANUFACTURING INC./CADILLAC, MI	Dec-04	Apr-05			
FY2007(3)			AFMC/WR-ALC	MIPR/OPT/FFP W/OPT	ARMY/AAR MANUFACTURING INC./CADILLAC, MI	Dec-06	Jul-07	Yes		
FORCE MODULE WATER SYSTEM										
FY2005(4)			AFMC/WR-ALC	C/FFP W/OPT	UNKNOWN	May-05	Dec-05	Yes		
FY2006(4)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Apr-06	Nov-06	Yes		
FY2007(4)			AFMC/WR-ALC	OPT/FFP	UNKNOWN	Nov-06	Jun-07	Yes		
FORCE MODULE CONFIGURATION BLOCK UPGRADE										

	<b>P-1 ITEM NO</b> 91		<b>PAGE NO:</b> 59	Page 4 of 5
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# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)							DATE: FEBRUARY 2005			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MOBILITY EQUIPMENT						
ITEM / 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	
FY2005(2)			AFMC/WR-ALC	C/FFP	UNKNOWN	Apr-05	Jul-05	Yes		
POWER GENERATION										
FY2007(5)			AFMC/WR-ALC	MIPR/OPT/FFP	RADIAN/ALEXANDRIA, VA	Apr-07	Nov-07	Yes		
<p><b>Remarks:</b></p> <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) FY05 and FY07 are options to basic contract, DAAD15-00-D-0025, competitively awarded Sep 00 with 7 option years.</p> <p>(4) Planning to award C/FFP contract in May 05 with 4 option years.</p> <p>(5) FY07 is an option to basic contract, F08-635-02-C-0046, competitively awarded Dec 01 with 9 option years.</p>										
			<b>P-1 ITEM NO</b> 91			<b>PAGE NO:</b> 60	Page 5 of 5			

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005	
<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>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$41,192	\$18,738	\$28,693	\$32,054	\$38,510	\$7,507	\$7,686	\$7,924
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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 (GPM). The module consists of components that efficiently work in concert to produce the desired throughput. The components included are: 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 to each mission.</li> <li>3. The Air Force is transforming the support equipment procurement strategy to an improved collaborative requirements determination and prioritization process to support warfighter capabilities and effects. Process improvements enhance validity and visibility and reduce risk. Headquarters Air Force, Major Commands and Single Managers have coordinated process changes to implement enhancements. As a result, FY06 procurement data reflects realignment from previous funding and forecasting models.</li> <li>4. FY06 funding procures initial shortages, as well as replacement equipment currently approaching obsolescence. All items have an annual procurement</li> </ol>								
	<b>P-1 ITEM NO</b> 93		<b>PAGE NO:</b> 61			Page 1 of 2		

# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2005		
<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> value of less than \$5,000,000 and are Code A.					
	<b>P-1 ITEM NO</b> 93		<b>PAGE NO:</b> 62		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)				DATE: FEBRUARY 2005	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION (BASE SUPPORT EQUIP)			
PROCUREMENT ITEMS	NSN	FY2006		FY2007	
		QTY.	COST	QTY.	COST
FUELS OPERATIONAL READINESS CAPABILITY EQUIP (FORCE)	4930015203848RN	12	\$23,100	13	\$26,600
MOBILE AIRCRAFT ARRESTING SYSTEM (MAAS)	1710012232235RN	7	\$3,905	2	\$1,135
TEST SET GROUP ELECTRONIC	6625011545040RH	5	\$1,457		
FSC 3408 - MACHINING CENTERS AND WAY TYPE MACHINES					\$390
FSC 3410 - ELECTRICAL AND ULTRASONIC EROSION MACHINES					\$479
FSC 3424 - METAL HEAT TREATING AND NON-THERMAL TREATING EQUIP					\$389
FSC 3426 - METAL FINISHING EQUIP					\$497
FSC 3441 - BENDING AND FORMING MACHINES					\$992
FSC 4920 - AIRCRAFT MAINTENANCE & SPECILIZED EQUIP			\$231		\$696
FSC 5411 - RIGGED WALL SHELTERS					\$877
TOTALS:			\$28,693		\$32,054

	<b>P-1 ITEM NO</b> 93		<b>PAGE NO:</b> 63	Page 1 of 2
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)</b>				<b>DATE:</b> FEBRUARY 2005	
<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>PROCUREMENT ITEMS</b>	<b>NSN</b>	<b>FY2006</b>		<b>FY2007</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
<b>Remarks:</b> Cost information is in thousands of dollars.  FSC- Federal Stock Class					
	<b>P-1 ITEM NO</b> 93		<b>PAGE NO:</b> 64		Page 2 of 2

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DARP RC135					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$16,651	\$18,653	\$21,507	\$22,007	\$22,518	\$23,070	\$23,650	\$24,029	
<b>Description:</b> FY06-FY11 - 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 USAF/XOIRC, (703) 614-7317.									
	<b>P-1 ITEM NO</b> 96			<b>PAGE NO:</b> 65				Page 1 of 1	

UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2005		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DARP MRIGS					
	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	
<b>QUANTITY</b>									
<b>COST</b> (in Thousands)	\$99,174	\$119,477	\$147,952	\$197,550	\$172,152	\$219,052	\$146,807	\$163,705	
<p><b>Description:</b></p> <p>FY06-FY11 - Detailed information on the DARP- MRIGS program remains classified and will be provided on a need-to-know basis. For further information, please contact USAF/XOIRY, (703) 697-0810.</p>									
	<b>P-1 ITEM NO</b> 97		<b>PAGE NO:</b> 66		Page 1 of 1				

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 2006/2007

Table of Contents

SPARES AND REPAIR PARTS

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
103	Spares & Repair Parts .....	1



# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/SPARE AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS
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	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)	\$32,952	\$41,234	\$30,340	\$28,624	\$18,265	\$24,999	\$21,624	\$22,024

**Description:**

Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of newly fielded vehicles, communications-electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information. Initial spares are procured using cost authority in the Supply Management Activity Group (SMAG) division of the Air Force Working Capital Fund (AFWCF), with the exception of intelligence and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through the AFWCF, procurement (appropriated) funds reimburse the SMAG as outlays occur and are, therefore, budgeted based on estimated contractor delivery schedules. Procurement funds for AFWCF Exempt spares, which are not managed through the SBSS, are budgeted in the year of the requirement. Appropriated funds for AFWCF Exempt spares obligate when spares are ordered.

	<b>P-1 ITEM NO</b> 103		<b>PAGE NO:</b> 1	Page 1 of 1
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/SPARE AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
SPARES & REPAIR PARTS									
INITIAL SPARES			{\$32,952}		{\$41,234}		{\$30,340}		{\$28,624}
AIR CARGO MATERIEL HANDLING 60K LOADER, PE 41214 (P-1 LINES 32)	A		\$7,395		\$8,180				
ITEMS LESS THAN \$5M ELECTRICAL EQUIPMENT, PE 72832 ( P-1 LINE NO. 34)	A				\$414				
ITEMS LESS \$5M, FIRE FIGHTING EQUIPMENT PE 72831 ( P-1 LINE NO. 34)	A		\$303						
TACTICAL TERMINAL, PE 35158 (P-1 LINE NO. 39)	A		\$695		\$1,633				
INFORMATION SYSTEMS SECURITY PROGRAM, PE 33140 (P-1 LINE NO. 39)	A		\$1,117		\$1,109		\$1,061		\$1,350
AIR TRAFFIC CONTROL & LANDING SYS, PE 35114 (P-1 LINE NO. 40)	A		\$789		\$802		\$3,120		\$2,788
NATIONAL AIRSPACE SYSTEM, PE 35137 (P-1 LINE NO. 41)	A		\$3,085		\$3,285		\$4,748		\$5,647
THEATER AIR CONTROL SYSTEM IMPROVEMENTS, PE 27412 (P-1 LINE NO. 42)	A		\$370						
WEATHER OBSERVATION/FORECAST, PE 35111 (P-1 LINE NO. 43)	A		\$1,468		\$1,483		\$1,518		\$1,602
WORLDWIDE JOINT STRATEGIC COMMAND, PE 11316 (P-1 LINE NO. 44)	A		\$573						\$362

	<b>P-1 ITEM NO</b> 103		<b>PAGE NO:</b> 2		Page 1 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/SPARE AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MISSION PLANNING SYSTEMS, PE 28006 (P-1 LINE NO. 44)	A		\$510		\$363				
CHEYENNE MOUNTAIN COMPLEX, PE 35906 (P-1 LINE NO. 45)	A		\$646		\$649		\$679		\$704
MOBILE CONSOLIDATED COMMAND CENTER, PE 35903 (P-1 LINE NO. 50)	A				\$581		\$606		\$668
AIR FORCE PHYSICAL SECURITY, PE 27589 (P-1 LINE NO. 51)	A		\$247		\$285				
COMBAT TRAINING RANGES, PE 27429 (P-1 LINE NO. 52)	A		\$768		\$780		\$803		\$832
THEATER BATTLE MANAGEMENT C2 SYSTEMS, PE 27438 (P-1 LINE NO. 56)	A		\$1,572		\$1,839		\$1,939		\$2,007
NAVSTAR GPS (SPACE), PE 35165, 35164 ( P-1 LINE NO. 62)	A						\$321		\$326
AF SATELLITE CONTROL NETWORK, PE 35110 (P-1 LINE NO. 64)	A		\$2,911		\$3,155		\$3,442		\$3,567
SPACELIFT RANGE SYSTEM (SPACE), PE 35182 (P-1 LINE NO. 65)	A		\$696		\$1,397		\$2,761		\$2,806
MILSATCOM (SPACE), PE 33601 (P-1 LINE NO. 66)	A		\$2,249		\$9,755		\$3,632		
SPACE MODS (SPACE), PE 35910, 35912 (P-1 LINE NO. 67)	A		\$1,978		\$218				
TACTICAL CE EQUIPMENT, PE 27423 (P-1 LINE NO. 68)	A		\$4,784		\$4,345		\$4,974		\$5,212

	<b>P-1 ITEM NO</b> 103		<b>PAGE NO:</b> 3	Page 2 of 3
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# UNCLASSIFIED

# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)</b>	<b>DATE:</b> FEBRUARY 2005
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<b>APPROP CODE/BA:</b> OPAF/SPARE AND REPAIR PARTS	<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS
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PROCUREMENT ITEMS	ID CODE	FY2004		FY2005		FY2006		FY2007	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TV EQUIPMENT (AFRTV), PE 88711 (P-1 LINE NO. 71)	A		\$244		\$250		\$253		\$262
WRM-EQUIPMENT/SECONDARY ITEMS PE 41135 (P-1 LINE NO. 91)	A		\$552		\$711		\$483		\$491
<b>TOTALS:</b>			\$32,952		\$41,234		\$30,340		\$28,624

**Remarks:**

Cost information is in thousands of dollars.

	<b>P-1 ITEM NO</b> 103		<b>PAGE NO:</b> 4		Page 3 of 3
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