

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE



PROCUREMENT PROGRAM

FISCAL YEARS 2000/2001
BUDGET ESTIMATES

OTHER PROCUREMENT

FEBRUARY 1999

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 00/01

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

Vehicular Equipment
Communications & Electronics 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, i.e., line items which have been classified as standard or alternate.

Code “B” - :Line items of material that have not been approved for Service use as defined in Code “A”.

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

C/FP - Competitive/Fixed Price
C/FFP - Competitive/Firm Fixed Price
C/FPIS - Competitive Fixed Price Incentive with Successive Targets
CM-5 - Competitive Multi-year - 5 years
CPAF - Cost Plus Award Fee
CPFF - Cost Plus Fixed Fee
CPIF - Cost Plus Incentive Fee
FFP - Firm Fixed Price
FFP W/OPT - Fixed Price with Options
FP - Fixed Price
FPAF - Fixed Price Award Fee
FPE - Fixed Price with Escalation
FPIF - Fixed Price Incentive Fee
FPIS - Fixed Price Incentive With Successive Targets
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 SptWG - 11th Support Wing, Washington, DC
ACC - Air Combat Command, Langley AFB, VA

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
AFMC/ESC-38ELW/CSPO - AF Materiel Cmd/Elec Sys Ctr - 38 Engineering & Installation Wing/Comm Sys Pgm Office, Tinker AFB, OK
AFMETCAL - Air Force Metrology and Calibration Office, Health, Ohio
AFMLO - Air Force Medical Logistics Office, Ft Detrick, MD
AFSPC - Air Force Space Command, Peterson AFB, CO
AFWA - Air Force Weather Agency, Offutt AFB, NE
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
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
HQ ANG - Headquarters, Air National Guard, Washington, DC
HSC - Human Services Center, Brooks AFB, TX
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK
OO-ALC - Ogden Air Logistics Center, Hill AFB, UT
SA-ALC - San Antonio Air Logistics Center, Kelly AFB, TX
SM-ALC - Sacramento Air Logistics Center, McClellan AFB, CA
SMC - Space & Missile Systems Center, Los Angeles AFB, CA
SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL
USSTRATCOM - 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
USAFE - United States Air Force Europe, Ramstein AB, GE
USAFA - United States Air Force Academy, Colorado Springs, CO

Bases/Organizations

11 SptWG - 11th Support Wing
AAC – Air Armament Center
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 Investigations
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
ESMC - Eastern Space & Missile Center
FAA - Federal Aviation Agency
FBI - Federal Bureau of Investigation
GSA - General Services Administration
JCS - Joint Chiefs of Staff
JSC - 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
WSMC - Western Space and Missile Center

APPROPRIATION LANGUAGE

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed 53 passenger motor vehicles of which all shall be for replacement only; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; \$7,085,177,000 to remain available for obligation until September 30, 2000.

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DEPARTMENT OF THE AIR FORCE

FY 2000/2001 PROCUREMENT PROGRAM

SUMMARY
(\$ IN MILLIONS)

FEB 1999

APPROPRIATION: OTHER PROCUREMENT, AIR FORCE

<u>ACTIVITY</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
02. VEHICULAR EQUIPMENT	174.4	187.7	203.0	178.1
03. ELECTRONICS AND TELECOMMUNICATIONS EQUIP	858.3	784.4	963.2	1,093.9
04. OTHER BASE MAINTENANCE AND SUPPORT EQUIP	5,485.6	5,887.6	5,882.5	6,095.2
05. SPARE AND REPAIR PARTS	52.8	45.3	36.5	31.9
TOTAL OTHER PROCUREMENT, AIR FORCE	6,571.1	6,905.0	7,085.2	7,399.0

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT											
PASSENGER CARRYING VEHICLES											
1	SEDAN, 4 DR 4X2	A	62	.9	31	.5					U
2	STATION WAGON, 4X2	A	4	.1	2	*					U
3	BUSES	A	41	2.8	61	3.4					U
4	AMBULANCES	A	3	.2	8	.5					U
5	LAW ENFORCEMENT VEHICLE	A	85	1.5	95	1.7	53	1.0			U
6	ARMORED SEDAN	A	1	.2	1	.2					U
CARGO + UTILITY VEHICLES											
7	TRUCK, CARGO-UTILITY, 3/4T, 4X4	A	156	4.2	144	3.9					U
8	TRUCK, CARGO-UTILITY, 1/2T, 4X2	A	114	2.4	31	.8					U
9	TRUCK, PICKUP, 1/2T, 4X2	A	316	4.5	114	1.6					U
10	TRUCK, PICKUP, COMPACT	A	163	2.0	112	1.3					U
11	TRUCK MULTI-STOP 1 TON 4X2	A	307	8.9	315	8.7					U
12	TRUCK CARRYALL	A	125	2.9	160	3.9					U
13	COMMERCIAL UTILITY CARGO VEHICLE	A	43	1.6							U
14	FAMILY MEDIUM TACTICAL VEHICLES	A	19	2.5							U
15	HIGH MOBILITY VEHICLE (MYP)	A	100	5.4	87	4.8	194	11.3	62	3.6	U
16	TRUCK TRACTOR, OVER 5T	A	25	1.8	54	3.5					U
17	TRUCK, UTILITY	A			15	3.3					U
18	CAP VEHICLES	A		1.0		1.4		.8		.8	U
19	ITEMS LESS THAN \$5,000,000	A		4.3		5.4		28.2		5.5	U

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DATE: FEB 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
SPECIAL PURPOSE VEHICLES											
20	TRUCK TANK FUEL R-11	A							127	20.0	U
21	HMMWV, ARMORED	A	125	22.0							U
22	TRACTOR, A/C TOW, MB-2	A							55	5.3	U
23	TRACTOR, TOW, FLIGHTLINE	A	124	3.4	278	8.0	272	7.7	360	10.2	U
24	ITEMS LESS THAN \$5,000,000	A		7.0		13.1		21.8		33.4	U
FIRE FIGHTING EQUIPMENT											
25	TRUCK CRASH P-19	A	5	2.6	9	4.2					U
26	ITEMS LESS THAN \$5,000,000	A		2.6		1.4		3.9		10.7	U
MATERIALS HANDLING EQUIPMENT											
27	TRUCK, F/L 6000 LB	A			60	1.7					U
28	TRUCK, F/L 10,000 LB	A	16	.9	56	4.3	89	7.0	20	1.7	U
29	60K A/C LOADER	A	44	80.6	38	91.2	39	81.2	6	35.1	U
30	NEXT GENERATION SMALL LOADER(NGSL)	A					13	9.8	34	24.4	U
31	ITEMS LESS THAN \$5,000,000	A		2.2		3.8		6.6		6.9	U
BASE MAINTENANCE SUPPORT											
32	TRUCK, DUMP	A	8	.4			105	5.4	22	1.3	U
33	RUNWAY SNOW REMOV AND CLEANING EQUIP	A			43	4.1	65	7.4	30	3.3	U
34	MODIFICATIONS	A		.4		.9		.9		.9	U
35	ITEMS LESS THAN \$5,000,000	A		4.9		7.8		10.1		14.9	U
36	VEHICLE LEASES	A				2.4					U

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DATE: FEB 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS								S E C
			FY 1998		FY 1999		FY 2000		FY 2001		
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
CANCELLED ACCOUNT ADJUSTM											
37	CANCELLED ACCOUNT ADJUSTMENTS	A		.3							U
TOTAL VEHICULAR EQUIPMENT				174.4		187.7		203.0		178.1	
<u>BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIP</u>											
COMM SECURITY EQUIPMENT(COMSEC)											
38	COMSEC EQUIPMENT	A		25.1		30.2		28.1		28.5	U
39	MODIFICATIONS (COMSEC)	A		.5		.5		.5		.5	U
INTELLIGENCE PROGRAMS											
40	INTELLIGENCE DATA HANDLING SYS	A		24.2		20.3		23.9		18.8	U
41	INTELLIGENCE TRAINING EQUIPMENT	A		2.2		5.7		2.0		1.6	U
42	INTELLIGENCE COMM EQUIP	A		6.4		8.6		5.5		5.6	U
ELECTRONICS PROGRAMS											
43	AIR TRAFFIC CTRL/LAND SYS (ATCAL)	A		6.7		8.0		.9			U
44	NATIONAL AIRSPACE SYSTEM	A		14.8		14.0		54.4		57.6	U
45	THEATER AIR CONTROL SYS IMPROVEMENT	A		36.2		26.8		37.9		36.4	U
46	WEATHER OBSERV/FORCAST	A		21.1		18.4		25.4		26.4	U
47	STRATEGIC COMMAND AND CONTROL	A		19.7		10.8		22.1		21.1	U
48	CHEYENNE MOUNTAIN COMPLEX	A		.7		.9		6.4		4.7	U
49	TAC SIGINT SUPPORT	A		3.9				1.8		1.5	U
50	DRUG INTERDICTION PROGRAM	A		14.8							U
SPECIAL COMM-ELECTRONICS PROJECTS											
51	AUTOMATIC DATA PROCESSING EQUIP	A		37.0		34.3		71.2		65.7	U
52	AF GLOBAL COMMAND & CONTROL SYS	A		7.0		4.5		5.7		5.7	U

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DATE: FEB 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
53	MOBILITY COMMAND AND CONTROL	A		8.9		7.8		10.4		8.6	U
54	AIR FORCE PHYSICAL SECURITY SYSTEM	A		14.2		26.2		32.6		33.4	U
55	COMBAT TRAINING RANGES	A		12.6		22.2		17.5		30.3	U
56	MINIMUM ESSENTIAL EMERGENCY COMM NET	A		11.5		1.5		5.2		36.3	U
57	FORCE PROTECTION/ANTI-TERRORISM	A		50.7							U
58	C3 COUNTERMEASURES	A		12.4		17.7		13.3		15.7	U
59	JOINT SURVEILLANCE SYSTEM	A						2.9		9.3	U
60	BASE LEVEL DATA AUTO PROGRAM	A		35.6		25.3		28.4		37.7	U
61	THEATER BATTLE MGT C2 SYS	A		42.7		44.2		47.6		51.6	U
AIR FORCE COMMUNICATIONS											
62	INFORMATION TRANSMISSION SYSTEMS	A		17.2		11.1		14.0		15.0	U
63	BASE INFORMATION INFRASTRUCTURE	A		110.6		120.6		122.8		128.2	U
64	USCENTCOM	A		3.8		4.4		5.8		5.9	U
65	DEFENSE MESSAGE SYSTEM (DMS)	A		14.7		15.4		14.0		16.6	U
DISA PROGRAMS											
66	NAVSTAR GPS SPACE	A		1.5		1.4		14.6		10.3	U
67	DEF METEOROLOGICAL SAT PROG SPACE	A		10.0		10.7		1.0			U
68	NUDET DETECTION SYS (NDS) SPACE	A		7.8		1.3		3.5		2.7	U
69	AF SATELLITE CONTROL NETWORK SPACE	A		22.2		23.0		33.6		32.2	U
70	EASTERN/WESTERN RANGE I&M SPACE	A		75.1		93.6		83.4		98.6	U
71	MILSATCOM SPACE	A		17.8		27.4		46.3		36.1	U
72	SPACE MODS SPACE	A		18.8		7.9		2.8		15.2	U

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APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
ORGANIZATION AND BASE											
73	TACTICAL C-E EQUIPMENT	A		30.8		27.1		49.7		110.3	U
74	COMBAT SURVIVOR/EVADER LOCATER RADIO	B		5.5		3.0		.8		3.6	U
75	RADIO EQUIPMENT	A		18.6		12.2		16.7		14.4	U
76	TV EQUIPMENT (AFRTV)	A		2.0		2.0		2.0		2.0	U
77	CCTV/AUDIOVISUAL EQUIPMENT	A		3.8		3.2		3.2		3.3	U
78	BASE COMM INFRASTRUCTURE	A		30.0		27.8		41.6		47.5	U
79	CAP COM & ELECT	A		.6		.5		.4		.4	U
80	ITEMS LESS THAN \$5,000,000	A		8.7		7.1		7.0		6.5	U
MODIFICATIONS											
81	COMM ELECT MODS	A		49.6		57.0		56.2		48.3	U
TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIP				858.3		784.4		963.2		1,093.9	
<u>BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIP</u>											
TEST EQUIPMENT											
82	BASE/ALC CALIBRATION PACKAGE	A		11.5		11.0		10.2		11.6	U
83	PRIMARY STANDARDS LABORATORY PACKAGE	A		1.1		1.1		1.1		1.1	U
84	ITEMS LESS THAN \$5,000,000	A		7.5		6.7		9.8		9.5	U
PERSONAL SAFETY AND RESCUE EQUIP											
85	NIGHT VISION GOGGLES	A		5.0		6.1		2.8		2.9	U
86	ITEMS LESS THAN \$5,000,000	A		3.4		3.5		3.6		5.6	U
DEPOT PLANT + MATERIALS HANDLING EQ											
87	MECHANIZED MATERIAL HANDLING EQUIP	A		10.9		18.5		15.3		15.1	U
88	ITEMS LESS THAN \$5,000,000	A		4.0		4.1		8.5		9.2	U

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EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS								
			FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	S E C
ELECTRICAL EQUIPMENT											
89	GENERATORS-MOBILE ELECTRIC	A		1.5		1.4					U
90	FLOODLIGHTS	A		6.2		10.7		13.5		10.7	U
91	ITEMS LESS THAN \$5,000,000	A		1.7		2.4		7.6		7.2	U
BASE SUPPORT EQUIPMENT											
92	BASE PROCURED EQUIPMENT	A		7.0		7.7		14.0		15.0	U
93	MEDICAL/DENTAL EQUIPMENT	A		9.9		8.7		14.3		17.2	U
94	ENVIRONMENTAL PROJECTS	A		1.0		1.0		1.0		1.0	U
95	AIR BASE OPERABILITY	B		4.1		5.4		4.4		1.9	U
96	PALLET AIR CARGO	A		1.2		2.0					U
97	NET ASSEMBLY, 108"X88"	A		2.0		1.9					U
98	BLADDERS FUEL	A		2.2		1.3					U
99	AERIAL BULK FUEL DELIVERY SYSTEM	A		1.5		4.3					U
100	PHOTOGRAPHIC EQUIPMENT	A		5.9		5.6		5.9		6.0	U
101	PRODUCTIVITY INVESTMENTS	A		16.1		12.3		15.1		8.3	U
102	MOBILITY EQUIPMENT	A		25.3		35.9		46.9		50.5	U
103	DEPLOYMENT/EMPLOYMENT CONTAINERS	A		2.0		2.3					U
104	AIR CONDITIONERS	A		9.6		10.7		6.7		6.2	U
105	ITEMS LESS THAN \$5,000,000	A		13.7		16.9		22.5		25.3	U
SPECIAL SUPPORT PROJECTS											
106	INTELLIGENCE PRODUCTION ACTIVITY	A		44.9		72.4		40.0		33.5	U
107	TECH SURV COUNTERMEASURES EQ	A		1.9		2.0		3.0		3.0	U
108	DARP RC135	A		12.3		16.4		12.7		12.9	U

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MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
109	DARP, MRIGS	A		64.0		88.4		106.4		87.5	U
110	SELECTED ACTIVITIES	A		5,031.2		5,340.7		5,352.2		5,424.3	U
111	SPECIAL UPDATE PROGRAM	A		165.3		169.4		142.5		140.8	U
112	DEFENSE SPACE RECONNAISSANCE PROGRAM	A						7.9		9.1	U
113	INDUSTRIAL PREPAREDNESS	A		.9		1.1		1.2		1.2	U
114	PROJECT MANAGEMENT ADMINISTRATION	A								164.4	U
115	MODIFICATIONS	A		.2		.2		.2		.2	U
116	FIRST DESTINATION TRANSPORTATION	A		10.7		15.7		13.3		13.9	U
TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIP				5,485.6		5,887.6		5,882.5		6,095.2	
<u>BUDGET ACTIVITY 05: SPARE AND REPAIR PARTS</u>											
SPARES AND REPAIR PARTS											
117	SPARES AND REPAIR PARTS	A		52.8		45.3		36.5		31.9	U
TOTAL SPARE AND REPAIR PARTS				52.8		45.3		36.5		31.9	
TOTAL OTHER PROCUREMENT, AIR FORCE				6,571.1		6,905.0		7,085.2		7,399.0	

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 00/01

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	Fighting)	
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31	Items Less Than \$5,000,000 (MHE)	31
32	Truck, Dump	33
33	Runway Snow Removal & Cleaning Equip	37
34	Modifications	41
35	Items Less Than \$5,000,000 (Base Maint Spt)	42

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	P-1 NOMENCLATURE: LAW ENFORCEMENT VEHICLE
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	85	95	53	0	0	0	0	0
COST (in Thousands)	\$1,535	\$1,705	\$986	\$0	\$0	\$0	\$0	\$0

Description:

This is a commercial, gasoline engine powered sedan equipped with a heavy duty component package for law enforcement use. It is used in security and law enforcement functions. This is a high mileage vehicle with a four year life expectancy. The total Air Force FY01 procurement requirement is 431 against an inventory objective of 760.

	P-1 ITEM NO: 5		PAGE NO: 1		Page 1 of 1
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UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: LAW ENFORCEMENT VEHICLE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
US GAS (BPAC 1601)	A	81	\$1445	95	\$1705	53	\$986	0	\$0
JAPAN GAS (BPAC 1602)	A	4	\$90	0	\$0	0	\$0	0	\$0
Totals:		85	\$1,535	95	\$1,705	53	\$986		
Remarks:									
		P-1 ITEM NO: 5				PAGE NO: 2		Page 1 of 1	

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: HIGH MOBILITY VEHICLE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	100	87	194	62	36	151	168	170
COST (in Thousands)	\$5,443	\$4,843	\$11,343	\$3,639	\$2,154	\$9,215	\$10,462	\$10,827
<p>Description:</p> <p>These utility trucks are High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), Model M1097A2. These vehicles have the capability to operate in austere adverse terrain locations. They are required to support security police, civil engineering, communications, and special operations airlift communities. The M1097A2 is the work horse for the US Army. Thus, with requirements to conduct combined joint operations, the M1097A2 is also the logical choice for the Air Force due to the commonality and compatibility of parts and maintenance support in a joint force environment. It is essential this vehicle be procured to support Air Force global commitments. The total Air Force FY01 procurement requirement is 1507 against an inventory objective of 1973.</p> <p>IDENT CODE: A</p>								
P-1 ITEM NO: 15				PAGE NO: 3		Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: HIGH MOBILITY 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	
M1097A2 HMMWV (BPAC 2261)										
FY98	100	54427	AFMC/WR-ALC	MIPR/IDIQ	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	FEB 98	MAR 98			
FY99	87	55667	AFMC/WR-ALC	MIPR/IDIQ	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	FEB 99	JUL 99	Y		
FY00	194	58468	AFMC/WR-ALC	MIPR/IDIQ	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	FEB 00	JUL 00	Y		
FY01 (1)	62	58694	AFMC/WR-ALC	MIPR/IDIQ	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	MAY 01	OCT 01	N	JAN 01	
REMARKS: 1. FY01 - IAW TACOM THIS WILL BE A NEW 5 YEAR INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT WITH FIRM FIXED PRICE (FFP) NEGOTIATED FOR EACH PRODUCTION YEAR, NO ECONOMIC PRICE ADJUSTMENT (EPA). CONTRACT TO BE AWARDED TO AM GENERAL.										
		P-1 ITEM NO: 15		PAGE NO: 4		Page 1 of 1				

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: CAP VEHICLES				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$1,000	\$1,400	\$751	\$768	\$780	\$787	\$804	\$822
<p>Description:</p> <p>This is a continuing program for acquisition of vehicles to support Civil Air Patrol (CAP) activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counter drug, disaster relief, and training activities. FY00 and FY01 funding continue procurement of vehicles to support day-to-day operations.</p>								
			P-1 ITEM NO: 18			PAGE NO: 5	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$4,345	\$5,375	\$28,220	\$5,538	\$11,857	\$27,916	\$29,271	\$30,288
<p>Description:</p> <p>This P-1 line includes various cargo-utility vehicles with procurement value of less than \$5,000,000 and are Code A. Items requested for procurement in FY00 and 01 are identified on the following P-40A. FY00 increases significantly from FY99 due to increase in threshold from \$2M to \$5M.</p>								
P-1 ITEM NO: 19			PAGE NO: 6			Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
SEMI-TRAILER 60T LOW BED (BPAC 2993002)	2330003492572	1	\$30	1	\$30
SEMI-TRAILER 20T 25FT (BPAC 2993003)	2330008997527	1	\$20		
SEMI-TRAILER 20T 38FT (BPAC 2993004)	2330013819477	5	\$104	41	\$870
SEMI-TRAILER 35T LOW BED (BPAC 2993007)	2330010516648	1	\$27		
SEMI-TRAILER 50T LOW BED (BPAC 2993008)	2330010585911	1	\$59		
TRUCK, 1T HI-CUBE VAN (BPAC 2994012)	2320013755832	1	\$21		
CARGO TRAILER M-105 1.5T (BPAC 2996003)	2330005416466	3	\$24		
TRAILER CHASSIS 2.5T M-200(BPAC 2996008)	2330005403950			27	\$186
CUCV UTILITY M-1009 (BPAC 2996024)	2320011232665	80	\$2720		
CUCV CARGO M1008 (BPAC 2996025)	2320011232671	90	\$2896	2	\$67
CUCV SHELTER M1028 (BPAC 2996026)	2320011275077	184	\$3994	1	\$37
TRUCK, CARGO (MTV) 5T (BPAC 2996034)	2320013543386	14	\$1832	3	\$383
TRUCK, CARGO, MTV, 2.5T (BPAC 2996035)	2320013543385	3	\$313		
HIGH MOBILITY TRAILER, (BPAC 2996036)	2330013886662	7	\$83	9	\$109
TRUCK, CARGO 5T WW M1083 (BPAC 2996038)	2320013601895	20	\$2680	1	\$137
TRUCK, UTILITY 6K 4X4 (BPAC 299B002)	2320010795354	90	\$2896	55	\$1585
TRUCK, CGO UT, 1/2 T, 4X2 (BPAC 299B004)	2320005802954	184	\$3994	13	\$285
TRUCK, CGO UT, 3/4 T, 4X4 (BPAC 299B006)	2320005802955	129	\$3627	8	\$227
TRUCK, 4X2 6 PAX DUAL (BPAC 299C010)	2320010107351	70	\$1603	13	\$301
P-1 ITEM NO: 19		PAGE NO: 7		Page 1 of 2	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)		
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
TRUCK, CARRYALL (BPAC 299C032)	2320004501005	44	\$1297	44	\$1321
TOTALS:			\$28,220		\$5,538
P-1 ITEM NO: 19		PAGE NO: 8		Page 2 of 2	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	P-1 NOMENCLATURE: TRUCK, TANK FUEL R-11
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	0	127	85	31	34	35
COST (in Thousands)	\$0	\$0	\$0	\$20,035	\$13,665	\$5,081	\$5,689	\$5,989

Description:

This a 6,000 gallon, diesel engined, aircraft refueling truck designed to deliver fuel to aircraft by either single point or over-the-wing method. It is the primary aircraft fuel servicing vehicle in the inventory and is destined to remain as the backbone of our capability well into the 2000's. Existing inventory is showing downward trends in reliability and increased maintenance due to high age and continued high usage. It is compatible with all inventory aircraft. The total Air Force FY01 procurement requirement is 1,702 against an inventory objective of 2,161.

IDENTIFICATION CODE: A

	P-1 ITEM NO: 20		PAGE NO: 9	Page 1 of 1
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, TANK FUEL R-11						
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	
R-11 REFUELER										
BPAC 3122										
FY01	127	157759	AFMC/WR-ALC	C/FFP	UNKNOWN	MAY 01	APR 02	Y		
REMARKS:										
		P-1 ITEM NO: 20					PAGE NO: 10		Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRACTOR, A/C TOW, MB-2				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	0	55	5	5	5	5
COST (in Thousands)	\$0	\$0	\$0	\$5,261	\$487	\$497	\$508	\$519
<p>Description:</p> <p>This vehicle family is defined as diesel engine driven, four wheel drive, four wheel steering tractors required to tow KC-135 and C-141 aircraft. Most major commands operate this vehicle in direct support of aircraft launching and recovery operations. The total Air Force FY01 requirements is 278 against an inventory objective of 510.</p> <p>IDENTIFICATION CODE: A</p>								
				P-1 ITEM NO: 22			PAGE NO: 11	Page 1 of 1

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRACTOR, A/C TOW, MB-2						
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	
TOW TRACTOR, MB-2										
(BPAC 3310)										
FY01	55	95655	AFMC/WR-ALC	C/FPE	UNKNOWN	APR 01	OCT 01	Y		
REMARKS:										
		P-1 ITEM NO: 22					PAGE NO: 12		Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	P-1 NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	124	278	272	360	723	1	1	1
COST (in Thousands)	\$3,398	\$7,972	\$7,710	\$10,235	\$20,949	\$30	\$30	\$30

Description:

This vehicle family is defined as diesel engine driven two and four wheel drive tow tractors necessary for towing aircraft on the flightline. This tractor is capable of towing support equipment, munition trailers, and aircraft to include, F-16, F-15, smaller administrative aircraft and helicopters. Most major commands operate this vehicle in direct mission support roles. Depending on the terrain and the mission requirements, there are various configuration options available such as heavy winterization, four wheel drive and an air system for trailer brakes. The total Air Force FY01 requirement is 1736 against an inventory objective of 3783.

IDENTIFICATION CODE: A

	P-1 ITEM NO: 23		PAGE NO: 13	Page 1 of 1
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE						
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	
TRACTOR, TOW, FLIGHTLINE										
BPAC: 3332										
FY98 (1)	124	27403	AFMC/WR-ALC	OPT/FPE	ENTWISTLE CO, HUDSON MA.	NOV 97	MAY 98			
FY99	278	28676	AFMC/WR-ALC	C/FP	UNKNOWN	JUN 99	DEC 99	Y		
FY00	272	28345	AFMC/WR-ALC	OPT/FPE	UNKNOWN	DEC 99	JUN 00	Y		
FY01	360	28430	AFMC/WR-ALC	C/FP	UNKNOWN	DEC 00	JUN 01	Y		
REMARKS: (1) OPTION TO FY97 CONTRACT.										
		P-1 ITEM NO: 23				PAGE NO: 14		Page 1 of 1		

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$7,026	\$13,111	\$21,808	\$33,391	\$32,296	\$33,552	\$37,883	\$128,939
<p>Description:</p> <p>This P-1 line includes various special purpose vehicles with a procurement value of less than \$5,000,000 and are Code A items. These vehicles are flightline, maintenance and facility vehicles which are essential to base and flying operations. Items requested for procurement in FY00 and FY01 are identified on the following P-40A.</p>								
P-1 ITEM NO: 24				PAGE NO: 15		Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
TRUCK REF LOADPACKER (BPAC 3991001)	2320008337514	3	\$251		
REF TRUCK REAR HOIST (BPAC 3991002)	2320008026354	2	\$141	2	\$144
TRUCK REF F/LOAD 24CY (BPAC 3991003)	2320008976837	1	\$149		
TRAILER CABLE REEL 10T (BPAC 3992003)	2330004207079	1	\$76	11	\$853
A-24 TANK TRUCK (BPAC 3993001)	2320000898979	1	\$52	23	\$1220
TRUCK LIQUID NITROGEN C5A (BPAC 3993002)	2320000999346			6	\$1409
TRUCK TANK 1200G (BPAC 3993008)	2320001776777	5	\$331	50	\$3368
TRUCK TANK 1200G 4X4 (BPAC 3993010)	2320001776778	12	\$990	38	\$3191
SEMI-TRAILER TK LO/LN (BPAC 3994007)	2330006843650	1	\$224		
SEMI-TRAILER COMP GAS 38 (BPAC 3994018)	2330009955613			3	\$635
TRAILER CHASSIS 1T MB-1 (BPAC 3995001)	2330005403715	2	\$9		
M-149 400 GAL WATER (BPAC 3996003)	2330000606511	1	\$12	8	\$99
M-720 DOLLY (BPAC 3996007)	2330009124251	1	\$9	1	\$9
TRUCK DUMP M1090 (BPAC 3996025)	2320013544529	1	\$164		
M1025A2 HMMWV ARMOR (BPAC 3996028)	2320013808233	5	\$346		
TRUCK WRECKER 5T (BPAC 3996033)	2320013544528	3	\$935	6	\$1905
TRAILER ISO CONTAINER (BPAC 3996053)	2330011421385	1	\$34	4	\$139
REEFER VAN 19000GVW (BPAC 3997001)	2320007704467	8	\$358	5	\$228
SHOP VAN 4X2 19GVW (BPAC 3997004)	2320008188015			1	\$36
P-1 ITEM NO: 24		PAGE NO: 16		Page 1 of 3	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
SHOP VAN 4X4 (BPAC 3997005)	2320008562480	1	\$51	4	\$209
TRUCK MISSILE VAN (BPAC 3997006)	2320013755833			2	\$183
C-5 HI LIFT (BPAC 3999001)	2320013056339	2	\$247		
TRUCK HI-LIFT 9T (BPAC 3999002)	2320005403991			16	\$2394
3 TON HI LIFT (BPAC 3999003)	2320005403489	5	\$429	1	\$87
TRUCK TP MAINT 6 PAX (BPAC 399A001)	2320004512184			31	\$859
3/4T 4X4 MAINT TRUCK (BPAC 399A006)	2320005411714	79	\$2058	70	\$1857
HI REACH 45 FT (BPAC 399A007)	2320009955610YW	17	\$1685	1	\$101
HI REACH 65 FT (BPAC 399A008)	2320009897163YW	4	\$495	3	\$378
HI REACH 100 FT (BPAC 399A009)	2320004869951YW			5	\$1294
TRUCK TEL MAINT STD UT (BPAC 399A010)	2320008019193	118	\$2691	14	\$325
TRUCK TEL MAINT COMP (BPAC 399A011)	2320010939261	68	\$1212	39	\$708
TRUCK TEL MAINT S-90 (BPAC 399A012)	2320004558464	3	\$667	17	\$3849
TRUCK MAINT S-55 4X2 (BPAC 399A013)	2320010307370			1	\$146
TRUCK MAINT S-70 4X4 (BPAC 399A015)	2320004866630			5	\$686
TRUCK TEL MAINT 1T (BPAC 399A021)	2320013437375	50	\$1413	1	\$29
TRUCK TEL MAINT COMP (BPAC 399A023)	2320010939261	4	\$87		
TRUCK TEL MAINT CREW CA (BPAC 399A025)	2320013951368	2	\$60		
TRUCK HYDRANT HOSE R-1 (BPAC 399B002)	2320011252481	10	\$1487	3	\$454
P-1 ITEM NO: 24		PAGE NO: 17		Page 2 of 3	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
TRUCK VAN CUSTOMIZED (BPAC 399B005)	2320010031959			1	\$230
CONTRACTOR VEH PLT 42 (BPAC 399B035)	NSL	1	\$287	1	\$288
MB-2 TOW TRACTOR (BPAC 399C002)	1740001438464YW	21	\$2002		
TRACTOR TOW ACFT U30 (BPAC 399C003)	1740013679485YW			12	\$2074
TRACTOR TOW MB-4 (BPAC 399C013)	1740005807990YW	24	\$1598	16	\$1085
TRACTOR TOW HEAVY DUTY (BPAC 399C014)	1740002534631YW			1	\$540
CARRIER O'SNOW 10P (BPAC 399D003)	2350008931225			3	\$322
WRECKER TILT BED (BPAC 399E001)	2320013804755	1	\$61	2	\$124
TRK WRECKER 6X4 44500 GVW (BPAC 399E002)	2320004775489			2	\$174
TRK WRECKER 4X2 32GVW HY (BPAC 399E004)	2320013033010	4	\$414	15	\$1582
WRECKER 21,000 GVW (BPAC 399E006)	2320007264347	9	\$783	2	\$177
TOTALS:			\$21,808		\$33,391
		P-1 ITEM NO: 24	PAGE NO: 18		Page 3 of 3

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (FIRE FIGHTING)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$2,624	\$1,403	\$3,869	\$10,692	\$7,933	\$1,4582	\$1,7143	\$17,475
Description: This P-1 line includes two types of fire trucks with a procurement value of less than \$5,000,000 and are Code A items. Items requested for procurement in FY00 and FY01 are identified on the following P-40A.								
		P-1 ITEM NO: 26			PAGE NO: 19	Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (FIRE FIGHTING)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
TRUCK, CRASH P-23 (BPAC 4991)	4210007026801	1	\$530	3	\$1621
TRUCK, FIRE HI-REACH (BPAC 4993)	4210010570696	2	\$895		
TRUCK, CRASH P-20 (BPAC 4998)	4210010127147			1	\$60
TRUCK, CRASH P-19 (BPAC 499C)	4210004069615	1	\$465	10	\$4737
P26 WATER TRUCK (BPAC 499D)	4210013564907			5	\$1231
P-24 TRUCK PUMPER (BPAC 499E)	4210002331538			2	\$404
HAZARDOUS MATERIAL (BPAC 499G)	4210013965219	1	\$235		
HEAVY RESCUE VEHICLE (BPAC 499H)	4210013696048	6	\$1,413	11	\$2639
TRUCK, FFGT MED RESCUE (BPAC 499J)	4210014525121	2	\$331		
TOTALS:			\$3,869		\$10,692
		P-1 ITEM NO: 26			PAGE NO: 20
				Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, F/L 10,000 LB				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	16	56	89	20	21	87	96	97
COST (in Thousands)	\$855	\$4,295	\$6,983	\$1,717	\$1,447	\$6,034	\$6,809	\$7,019
<p>Description:</p> <p>This family of vehicles is defined as commercial 10,000 pound forklifts with pneumatic tires. These forklifts are the basic 463L air cargo system support vehicles to handle 108" X 88" pallets. They are compatible with and support all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet (CRAF) aircraft. The family consists of the standard model with dual 105" lift, 72" tine configuration and lateral shift capability as well as the adverse terrain (AT) model which utilizes a front end scoop loader chassis to provide the required mobility. The AT model permits rapid loading/offloading of aircraft cargo at forward combat locations. The total Air Force FY01 procurement requirement is 1,409 against an inventory objective of 2663.</p>								
P-1 ITEM NO: 28				PAGE NO: 21		Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, F/L 10,000 LB						
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 FORKLIFT, 10K AT										
(BPAC 5031)										
FY99	36	89528	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC CANADIAN COMMERCIAL CORP, OTTAWA, CD	APR 99	DEC 99	Y		
FY00	55	93329	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC CANADIAN COMMERCIAL CORP, OTTAWA, CD	FEB 00	OCT 00	Y		
FY01	16	93500	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC CANADIAN COMMERCIAL CORP, OTTAWA, CD	FEB 01	OCT 01	Y		
TRUCK FORKLIFT, 10K STD										
(BPAC 5032)										
FY98	16	53437	AFMC/WR-ALC	MIPR/FP	DLA/DISC HYSTER, DANVILLE, IL	DEC 97	OCT 98			
FY99	20	53600	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC HYSTER, DANVILLE, IL	APR 99	DEC 99	Y		
FY00	34	54411	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC HYSTER, DANVILLE, IL	JAN 00	NOV 00	Y		
FY01	4	55250	AFMC/WR-ALC	MIPR/IDIQ	DLA/DISC HYSTER, DANVILLE, IL	JAN 01	NOV 01	Y		
REMARKS:										
		P-1 ITEM NO: 28				PAGE NO: 23				Page 1 of 1

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	P-1 NOMENCLATURE: 60K A/C LOADER
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	44	38	39	6	0	0	0	0
COST (in Thousands)	\$80,648	\$91,190	\$81,163	\$35,114	\$0	\$0	\$0	\$0

Description:

The Tunner (60K) aircraft (A/C) loader augments and ultimately replaces the current 463L material handling equipment (MHE) 40K aircraft loader, lower lobe aircraft loader, and wide body elevator loaders. The Tunner is providing increased heavy lift and transport capability and will become the backbone of the strategic airlift 463L MHE vehicle fleet and the critical link ensuring rapid on/off load capability for strategic airlift including Civil Reserve Air Fleet (CRAF) aircraft. The Tunner is an integral part of the airlift system during peacetime logistics missions and will assure minimum ground times for increased capability during wartime surges. The Tunner handles all configurations of air cargo including 463L and commercial pallets, airdrop platforms, container delivery system loads, international standard organization containers, commercial freight configured containers, and rolling stock. The Tunner accommodates six pallets and loads/off loads a maximum of 60,000 pounds (to accommodate an Army airdrop requirement) to a height of at least 18.5 feet (to accommodate 747 aircraft) and has a lowering capacity to 39 inches. It interfaces with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the CRAF. It will meet nuclear materials handling safety criteria and certification. The Tunner is "drive-on, drive-off" and air transportable on C-141, C-5, and C-17 aircraft. R&D funds (PE 41214F) provided four prototypes (two each from two contractors). Development, Test, and Evaluation was completed in November 1993 and the Operational Assessment was completed in January 1994. Initial Operational Test and Evaluation (IOT&E) was completed in January 1998. The initial production contract was awarded to Southwest Mobile Systems (now Systems and Electronics, Inc.) in April 1994. In 1999 the Air Force will begin a reliability and supportability improvement program (RSP) designed to significantly enhance the loaders' operational availability, particularly at forward operating locations. Additionally, the RSP should reduce the lifetime spare parts cost by approximately one-third against anticipated spare parts costs today. 186 out of an Air Force inventory objective of 318 are currently funded through FY01.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT							P-1 NOMENCLATURE: 60K A/C LOADER						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
60K ACFT LDR (BPAC 5121)	A	44	1,541,341	67819	38	1,526,868	58021	39	1,533,462	59805	6	2,000,000	12000
PROD SUPT (BPAC 5122)				{8516}			{10892}			{3488}			{3684}
A. ECO				26			2003			1098			1246
B. SPO OPERATIONS/SUPT				1402			2343			2390			2438
C. COST REDUCTION INIT				4177			2000						
D. DIMENSIONAL MGT SYS				2911									
E. INTEG TECH DATA PKG							4546						
FIELD SUPPLY SUPPORT (BPAC 5124)				{4313}			{127}			{270}			
A. SPECIAL TOOLS							127			270			
B. DEPLOYMENT PACKAGE				329									
C. ENHANCED SUPPLY SUPPORT AGREEMENT				3984									
RELIABILITY SUPPORTABILITY PROGRAM (BPAC 5124)							{22150}			{17600}			{19430}
A. SUPPLY SUPPORT AGREEMENT							5820			8040			11030
B. FIELD SERVICE ENGINEERING							3300			3300			3300
C. DURABILITY TEST							8560						
D. R&M ANALYSIS							4470						

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT						P-1 NOMENCLATURE: 60K A/C LOADER								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
E. RELIABILITY IMPROVEMENTS										6260			5100	
TOTALS:		44		80,648	38		91,190	39		81,163	6		35,114	
REMARKS:														
		P-1 ITEM NO: 29				PAGE NO: 26						Page 2 of 2		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: 60K A/C 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	
TUNNER (60K) AIRCRAFT LOADER (BPAC 5121)										
FY98	44	1541341	AFMC/WR-ALC	SS/FFP	SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO.	AUG 98	APR 99			
FY99	38	1526868	AFMC/WR-ALC	SS/FFP	SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO.	FEB 99	MAR 00			
FY00	39	1533462	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO.	DEC 99	MAR 01	Y		
FY01	6	2000000	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO.	DEC 00	MAR 02	Y		
REMARKS:										
		P-1 ITEM NO: 29		PAGE NO: 27		Page 1 of 1				

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: NEXT GENERATION SMALL LOADER (NGSL)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	13	34	84	84	42	0
COST (in Thousands)	\$0	\$0	\$9,754	\$24,381	\$59,863	\$59,811	\$29,878	
<p>Description:</p> <p>1. The Next Generation Small Loader (NGSL) will augment and ultimately replace the increasingly unreliable 25K loaders and remainder of the Wide Body Elevator Loader (WBEL) fleet. Unlike the Tunner (60K Aircraft Loader), the NGSL will be C-130 transportable, further enhancing the Air Force's ability to support rapid deployment to austere operating locations. The NGSL, in conjunction with the Tunner, will be an integral part of the airlift system during peacetime logistics missions and assure minimum ground times for increased capability during wartime and contingency surges.</p> <p>2. The NGSL is designed to handle all configurations of air cargo, including 463L pallets, commercial pallets, airdrop platforms, container delivery systems loads, international standard organization containers, containers, and rolling stock. The loader will have the capability to load/offload up to three pallets (up to a maximum of 25,000 to 30,000 pounds) to a height of between 39 inches and 18.5 feet (to accommodate 747 aircraft). It will work with all types of aircraft, current and planned military cargo aircraft, current civilian models utilized by commercial carriers, and Civil Reserve Airlift Fleet (CRAF).</p> <p>3. The Air Force is procuring six loaders (3 each from Teledyne Brown Engineering and FMC Corp.) using RDT&E money to undergo an Operational Assessment. Testing will support an FY00 down select to one contractor who will be awarded the production contract. Deliveries are projected to begin in Feb FY01 (Ref Air Force Descriptive Summary for Program Element 41214F). The inventory objective is 264 loaders.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)													DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT							P-1 NOMENCLATURE: NEXT GENERATION SMALL LOADER (NGSL)							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
NGSL (BPAC 5151)	A							13	600000	7800	34	600000	20400	
PRODUCT SUPPORT (BPAC 5152)										1008			2305	
DATA (BPAC 5153)										70			150	
SUPPLY SUPPORT AGREEMENT (BPAC 5154)										876			1526	
TOTALS:								13		9,754	34		24,381	
REMARKS:														
		P-1 ITEM NO: 30				PAGE NO: 29						Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: NEXT GENERATION SMALL LOADER (NGSL)						
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	
NGSL (BPAC 5151)										
FY00	13	600,000	AFMC/ASC	C/FFP	UNKNOWN	MAY 00	FEB 01	N	MAY 00	
FY01	34	600,000	AFMC/ASC	C/FFP	UNKNOWN	JUN 01	MAR 02	N	JUN 01	
REMARKS:										
		P-1 ITEM NO: 30		PAGE NO: 30		Page 1 of 1				

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (MATERIALS HANDLING EQUIP)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$2,167	\$3,767	\$6,637	\$6,918	\$5,079	\$10,152	\$6,425	\$6,206
Description: <p>This program includes various material handling vehicles with a procurement value of less than \$5,000,000 and are Code A items. These vehicles are lifting and sequencing trucks which are critical to depot and base supply operations. Items requested for procurement in FY00 and FY01 are identified on the following P-40A.</p>								
			P-1 ITEM NO: 31			PAGE NO: 31	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)					DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (MATERIALS HANDLING EQUIP)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001		
		QTY.	COST	QTY.	COST	
FORKLIFT 13K ADV TERRAIN (BPAC 5991003)	3930011260457CT	4	\$421			
FORKLIFT 15K DIESEL (BPAC 5991004)	3930010113650	4	\$242	12	\$741	
FORKLIFT 4K ELECTRIC 144 (BPAC 5991005)	3930000539175	1	\$30	11	\$336	
FORKLIFT 2K ELECTRIC ST (BPAC 5991006)	3930006782580	1	\$25	3	\$78	
FORKLIFT NARROW AISLE ELEC (BPAC 5991010)	3930011028906			1	\$25	
FORKLIFT 6K ELECTRIC ST (BPAC 5991013)	3930010471157			1	\$27	
TRUCK F/L NARROW AISLE (BPAC 5991022)	3930014221657			1	\$89	
FORKLIFT 6K DED (BPAC 5991026)	3930010525219	101	\$2,799	67	\$1788	
FORKLIFT 4K DIESEL (BPAC 5991027)	3930010130338	28	\$635	37	\$854	
FORKLIFT 6K RT (BPAC 5991029)	3930008792157	6	\$497	11	\$928	
FORKLIFT 6K COMMERCIAL (BPAC 5991036)	3930014330887	2	\$56	2	\$57	
CRANE WAREHOUSE GAS (BPAC 5992005)	3950005555021	2	\$156	5	\$396	
TRUCK MTD CONV BELT (BPAC 5993001)	3930000195630	16	\$471	11	\$330	
WHLD CONV BELT PORTABLE (BPAC 5993002)	3910001417188			1	\$80	
TRACTOR 4K WAREHOUSE (BPAC 5994007)	3930010070115	57	\$1,305	51	\$1,189	
TOTALS:			\$6,637		\$6,918	
		P-1 ITEM NO: 31			PAGE NO: 32	Page 1 of 1

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, DUMP				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	8	0	105	22	38	94	107	107
COST (in Thousands)	\$395	\$0	\$5,428	\$1,266	\$2,142	\$5,041	\$5,888	\$6,019
<p>Description:</p> <p>This vehicle family consists of standard commercial dump trucks. These vehicles have many applications but are used primarily by civil engineers to haul debris and other material. They are crucial to Air Base Operability, specifically Rapid Runway Repair (RRR), and are also used for moving material at construction sites. The total Air Force FY01 procurement requirement is 1034 against an inventory objective of 2,021.</p>								
			P-1 ITEM NO: 32			PAGE NO: 33	Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, DUMP						
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 DUMP 5T 4X2										
(BPAC 6131)										
FY98	4	40748	AFMC/WR-ALC	MIPR/IDIQ	GSA BOYER FORD, LOUISVILLE, KY	DEC 97	MAY 98			
FY00	32	43687	AFMC/WR-ALC	MIPR/IDIQ	GSA UNKNOWN	FEB 00	JUL 00	Y		
FY01	6	44333	AFMC/WR-ALC	MIPR/IDIQ	GSA UNKNOWN	FEB 01	JUL 01	Y		
TRUCK DUMP 5T 4X4										
(BPAC 6132)										
FY98	1	55501	AFMC/WR-ALC	MIPR/IDIQ	GSA BOYER FORD, LOUISVILLE, KY	DEC 97	JUN 98			
FY00	6	56100	AFMC/WR-ALC	MIPR/IDIQ	GSA UNKNOWN	FEB 00	AUG 00	Y		
FY01	10	56500	AFMC/WR-ALC	MIPR/IDIQ	GSA UNKNOWN	FEB 01	AUG 01	Y		
TRUCK DUMP 44.5G 6X4										
(BPAC 6133)										
FY98	3	54142	AFMC/WR-ALC	MIPR/IDIQ	GSA NAVISTAR, SPRINGFIELD, OH	SEP 98	DEC 98			
FY00	66	54362	AFMC/WR-ALC	MIPR/IDIQ	GSA NAVISTAR, SPRINGFIELD, OH	FEB 00	MAY 00	Y		
FY01	4	55250	AFMC/WR-ALC	MIPR/IDIQ	GSA NAVISTAR, SPRINGFIELD, OH	FEB 01	MAY 01	Y		
		P-1 ITEM NO: 32		PAGE NO: 35		Page 1 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, DUMP						
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 DUMP 55G 6X4										
(BPAC 6134)										
FY00	1	104924	AFMC/WR-ALC	MIPR/IDIQ	GSA (UNKNOWN)	FEB 00	MAY 00	Y		
FY01	2	106888	AFMC/WR-ALC	MIPR/IDIQ	GSA (UNKNOWN)	FEB 01	MAY 01	Y		
REMARKS:										
		P-1 ITEM NO: 32				PAGE NO: 36				Page 2 of 2

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT	P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	43	65	30	31	100	108	109
COST (in Thousands)	\$0	\$4,118	\$7,392	\$3,336	\$3,997	\$12,601	\$13,819	\$14,346

Description:

This family of vehicles is comprised of commercial sweepers and snow removal vehicles used on all airfield surfaces to control foreign object damage (FOD) to aircraft engines and tires and to remove snow. Snow removal equipment includes front-mounted brooms, multi-purpose blowers, and plows. Multi-purpose vacuum sweepers are used for airfields, roads, and grounds. During winter at northern tier bases, the snow removal vehicles are critical to airfield operations. Fighter aircraft cannot land or take off with ice on the runway. It is equally important to have good vacuum sweepers at all air bases due to the high cost of FOD and the potential for loss of aircraft. The FY01 procurement requirement is 1134 against an inventory objective of 1987.

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CLEANER VAC MULT (BPAC 6211)	A			20	\$1464	38	\$3025	17	\$1378
SNOW REM 3000 TPH (BPAC 6214)	A							3	\$442
RRR DIRT SWEEPER (BPAC 6215)	A			5	\$198				
AIRBLAST SNOW SWP (BPAC 6217)	A							1	\$101
DUMP W/SNOW PLOW (BPAC 6218)	A			7	\$826	1	\$118	2	\$241
54K PLOW (BPAC 6219)	A			5	\$804	9	\$1566	3	\$531
SNOW SWEEPER TRK MTD (BPAC 621B)	A			6	\$826	17	\$2683	4	\$643
Totals:				43	\$4,118	65	\$7,392	30	\$3,336
Remarks: Rapid Runway Repair (RRR)									
		P-1 ITEM NO: 33		PAGE NO: 38				Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
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 MULTI PURPOSE (BPAC 6211)										
FY99 (1)	20	73182	AFMC/WR-ALC	MIPR/IDIQ	DLA TYMCO, WACO, TX	MAR 99	SEP 99	Y		
FY00	38	79614	AFMC/WR-ALC	MIPR/IDIQ	DLA TYMCO, WACO, TX	MAR 00	SEP 00	Y		
FY01	17	81077	AFMC/WR-ALC	MIPR/IDIQ	DLA TYMCO, WACO, TX	MAR 01	SEP 01	Y		
SNOW REMOVAL 3000 TPH (BPAC 6214)										
FY01	3	147334	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	MAR 01	SEP 01	Y		
RRR DIRT SWEEPER (BPAC 6215)										
FY99	5	39555	AFMC/WR-ALC	MIPR/IDIQ	DLA DEERE AND CO, DUBUQUE, IA	MAR 99	AUG 99	Y		
AIRBLAST SNOW SWEEPER (BPAC 6217)										
FY01	1	101236	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	MAR 01	SEP 01	Y		
DUMP W/SNOW PLOW (BPAC 6218)										
FY99	7	118000	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	MAR 99	AUG 99	Y		
		P-1 ITEM NO: 33		PAGE NO: 39		Page 1 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
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	
FY00	1	118469	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	MAR 00	AUG 00	Y		
FY01	2	120445	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	MAR 01	AUG 01	Y		
54K PLOW (BPAC 6219)										
FY99	5	160719	AFMC/WR-ALC	MIPR/IDIQ	DLA OSHKOSH, OSHKOSH, WI	FEB 99	AUG 99	Y		
FY00	9	173952	AFMC/WR-ALC	MIPR/IDIQ	DLA OSHKOSH, OSHKOSH, WI	FEB 00	AUG 00	Y		
FY01	3	177148	AFMC/WR-ALC	MIPR/IDIQ	DLA (UNKNOWN)	FEB 01	AUG 01	Y		
SNOW SWEEPER TRUCK MOUNTED (BPAC 621B)										
FY99	6	137676	AFMC/WR-ALC	C/FP	DLA (UNKNOWN)	JUL 99	DEC 99	Y		
FY00	17	157795	AFMC/WR-ALC	C/FP	DLA (UNKNOWN)	JUL 00	DEC 00	Y		
FY01	4	160688	AFMC/WR-ALC	C/FP	DLA (UNKNOWN)	JUL 01	DEC 01	Y		
REMARKS:										
				P-1 ITEM NO: 33				PAGE NO: 40	Page 2 of 2	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: MODIFICATIONS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$358	\$898	\$887	\$887	\$886	\$885	\$934	\$974
<p>Description:</p> <p>1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for vehicle equipment.</p> <p>2. The funds budgeted in FY98-01 are for "Miscellaneous Low Cost Modifications" to satisfy unforeseen modification requirements.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$4,902	\$7,776	\$10,070	\$14,883	\$21,517	\$29,397	\$34,798	\$36,537
<p>Description:</p> <p>This program includes various base maintenance vehicles with a procurement value of less than \$5,000,000 and are Code A items. These vehicles provide Civil Engineering personnel with the capability to conduct sanitary landfill operations, improve airfield safety by removing foreign object damage (FOD) materials, and repair and construct base physical plant requirements. Items requested for procurement in FY00 and FY01 are identified on the following P-40A.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
CENTRAL MIXING PLANT (BPAC 6992001)	3895010632722	2	\$670		
TRIMMER PAVER (BPAC 6992011)	3895011521516	1	\$90		
PAVING MACHINE CRAWLER (BPAC 6992015)	3895001903313	4	\$420		
MIXER ROTARY TILLER (BPAC 6992017)	3895002548669	5	\$450		
DISTRIB BITUM 800 GAL (BPAC 6992018)	3895003528105	2	\$211	4	\$452
MIXER CONCRETE TRLR MTD (BPAC 6992021)	3895010055422			1	\$90
PAVING MACHINE RUBBER (BPAC 6992022)	3895010575288			4	\$549
TRUCK CONCRETE MIX 8CY (BPAC 6992023)	3895008346124			2	\$250
SM UNIT SUPPORT VEH (SUSV)(BPAC 6994002)	2350011329099	1	\$218	3	\$675
LOADER COMPACTOR (BPAC 6995001)	3805001920729	1	\$146	1	\$149
SCOOP LOADER 2.5CY PT (BPAC 6995002)	3805002601967	3	\$274	6	\$557
SCOOP LOADER W/BACKHOE (BPAC 6995003)	3805001482169	22	\$1052	17	\$907
SCOOP LOADER 2.5CY FT (BPAC 6995005)	3805007289718			1	\$144
SCP LDR 1.5CY W/Q COUPLER (BPAC 6995007)	3805010748111	14	\$928	2	\$179
SCOOP LOADER 4CY PT (BPAC 6995008)	3805010751816	7	\$915	5	\$737
SCRAPER SLF/PROPELLED (BPAC 6996001)	3805011538646	1	\$153	4	\$619
ROLLER MOTOR PT SP 15T (BPAC 6997002)	3895000785898	1	\$63		
ROLLER ROAD MOTOR TANDEM (BPAC 6997005)	3895002436797			4	\$107
ROLLER VIBRATORY TYPE II (BPAC 6997006)	3895010715625	1	\$92	9	\$842

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
CRANE 45 TON (BPAC 6998009)	3810002729031	2	\$561	1	\$286
CRANE 7.5 TON (BPAC 6998010)	3810010673991	3	\$552		
CRANE 15 TON (BPAC 6998011)	3810003294154			1	\$240
TRENCHER SELF PROP W/TLR (BPAC 699B002)	3805010329974	8	\$486		
TRENCHER CRAWLER MTD 45HP (BPAC 699B004)	3805013952699	1	\$53	1	\$54
DITCHING MACHINE CRAWLER (BPAC 699C001)	3805000801931			1	\$122
DRILL PAVEMENT (BPAC 699C004)	3820004775813	1	\$54		
DITCHING MACHINE TRAILER (BPAC 699C015)	2330010794053	1	\$8	4	\$31
TRUCK WASTE WATER 2000 (BPAC 699C037)	2320005802819			9	\$1,246
TRUCK SEWER CLEANER HP (BPAC 699C039)	2320001960811	1	\$94	14	\$1,346
TRAILER MANHOLE CLEANER (BPAC 699C042)	2330003073295	1	\$38		
TRACTOR INDUSTRIAL IW-70 (BPAC 699E005)	2420001138984	38	\$806	15	\$356
TRACTOR WHEELED 85HP 4WD (BPAC 699E006)	2420012058579	1	\$35	4	\$142
TRACTOR WHEELED 290HP 4WD (BPAC 699E007)	2420012068055	1	\$108		
TRUCK DUMP 22 TON (BPAC 699F010)	3805009310616			2	\$347
DOZER T4 (BPAC 699G001)	2410001664176			2	\$188
DOZER T7 (BPAC 699G002)	2410007561161	3	\$487	11	\$1595
DOZER T9 (BPAC 699G003)	2410008165091	2	\$493	3	\$752
GRADER SIZE II TYPE III (BPAC 699J003)	3805013374623	5	\$412	7	\$588
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)		
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
GRADER SIZE V TYPE III (BPAC 699J004)	3805013374624	2	\$201	13	\$1,333
TOTALS:			\$10,070		\$14,883
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DEPARTMENT OF THE AIR FORCE
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FOR FISCAL YEARS 00/01

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$6,675	\$7,980	\$887	\$0	\$31,307	\$40,342	\$68,205	\$73,934
<p>Description:</p> <p>The Air Traffic Control and Landing Systems (ATCAL) weapons system procures and supports fixed-base and tactical radars, navigational aids, voice communications (radio and telephone), and data processing/automation capabilities to enable United States Air Force (USAF) air traffic controllers to provide advisory, sequencing, separation, and landing guidance services to all aircraft in USAF-assigned airspace. The weapon system includes operational equipment as well as training systems for air traffic controllers as well as equipment required to interface USAF systems with systems operated and maintained by other services, the Federal Aviation Administration, or host-nations.</p> <ol style="list-style-type: none"> 1. CONTROL TOWER SIMULATION. FY98 funds purchased visual flight rules air traffic control tower simulation equipment and associated training computers for air traffic control training at Keesler AFB, MS and other operational units. No FY99/00/01 funding is required. 2. MOBILE RAPCON. FY99 funds purchased the Mobile Radar Approach Control (RAPCON) for the Air National Guard. Since no existing system fulfills the needs of the service, this money is pending reclassification to Research, Development, Test and Evaluation funding to start the development of a suitable system. No FY00/01 funding is requested. 3. VOICE COMMUNICATIONS SWITCHING SYSTEM. FY00 funds will procure a new digital voice switch (radios and telephones) to replace aging, unsupportable equipment at Edwards Test and Training Range, Edwards AFB, CA. No FY01 funding is requested. 								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL5)						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. CONTROL TOWER SIMULATION	A		\$6,675		\$0		\$0		\$0	
2. MOBILE RAPCON	B				\$7,980					
3. VOICE COMM SWITCHING SYS	A		\$0		\$0		\$887		\$0	
Totals:			\$6,675		\$7,980		\$887			
Remarks:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$14,820	\$14,014	\$54,394	\$57,635	\$61,762	\$52,670	\$46,784	\$47,792
<p>Description:</p> <p>The primary objective of the National Airspace System (NAS) is to modernize the Department of Defense (DoD) Air Traffic Control (ATC) system, in conjunction with the Federal Aviation Administration (FAA) modernization effort. Another major objective is developing and fielding the Military Airspace Management System (MAMS), an airspace scheduling, management, and reporting tool. NAS increases safety of flight; provides systems and facilities interoperable with the FAA modernization; replaces aging DoD ATC systems; provides identical service to military and civilian aircraft; prevents DoD flight cancellations/delays; and reduces maintenance. Equipment to be procured will include fixed site approach control and control tower automation systems, radars, voice switches and ancillary supplies. Use of Non-Developmental Items (NDI) will be maximized. If modernization of the current air traffic control equipment is not implemented, systems which are approaching the end of their life cycle will become increasingly more expensive and more difficult to repair. Additionally, the FAA is modernizing the nation's air traffic control system, and DoD must remain operationally compatible with the FAA in order to continue to provide service to the military community and the civilian users who depend on DoD's ATC services. The Air Force is the lead service for the NAS program, which will modernize 65 DoD sites, each receiving a site-unique array of equipment. Of these 65 DoD sites, 26 are Air Force sites requiring Air Force funding.</p> <p>The NAS program was restructured due to a development delay, and the revised quantity profile reflects the SAF/AQ approved Change 2 to the DoD National Airspace System (NAS) Acquisition Program Baseline (APB), the revised Acquisition Decision Memorandum (ADM), dated 22 April 1998, and the SAF/AQ DoD NAS Amendment to Milestone II Decision and Phase II Guidance, dated 3 August 1998.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM				
Description (cont.): 1. DOD ADVANCED AUTOMATION SYSTEM (DAAS): The DAAS will provide equipment tailored for the operation of two types of ATC facilities: local control facilities, which are usually referred to as Radar Approach Controls (RAPCONs), and military control tower facilities. DAAS will replace the current generation air traffic control automation system which exists in the DoD RAPCONs. It will provide digital controller displays, consoles, automation hardware and software to replace those that are approaching the end of their life cycle. FY00/01 funds will procure and install 3 DAAS each year at key Air Force locations. 2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR): The DASR consists of two subsystems, a primary and a secondary surveillance radar. DASR will replace the DoD current generation analog ATC surveillance radars with digital airport surveillance radars which will provide the aircraft position and other data to the controller displays in the RAPCON. FY00/01 funds will procure and install 6 and 5 DASRs, respectively, at key Air Force locations. Equipment quantity and configurations are tailored to meet a specific site requirement, which result s in varying unit costs. 3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS): VCSS replaces current switches with new digital voice switches for DoD RAPCONs and some stand alone control towers. VCSS provides the connectivity for the controllers to communicate via landlines and radios with requisite aircraft, vehicles, and agencies. FY98-01 funds procure and install 86 VCSS (13/17/23/33 VCSS respectively) at key Air Force locations. VCSS will be procured in three configurations tailored to each site. 4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS): MAMS was developed in response to two General Accounting Office (GAO) audits which criticized the FAA and DoD for inefficient management, use and tracking of Special Use Airspace (SUA). MAMS, an Air Force-led program, is an automated scheduling and utilization reporting tool which will interconnect DoD SUA managers, and allow more efficient scheduling and management of activities in a specifically designated SUA. FY99 funds procure one Internet-based MAMS system. No FY00/01 runds requested.						
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
DOD ADVANCED AUTOMATION SYSTEM (DAAS)	A						\$6,378		\$13,528
DIGITAL AIRPORT SURVEILLANCE RADAR (DASR)	A						\$30,204		\$20,466
VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS)	A		\$14,820		\$13,014		\$17,812		\$23,641
MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS)	A				\$1,000				
Totals:			\$14,820		\$14,014		\$54,394		\$57,635
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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 (DAAS) (1)										
FY00			AFMC/ESC	OPT(2)/FFP	RAYTHEON CORP., MARLBORO, MA	JAN 00	JUL 00	Y		
FY01			AFMC/ESC	OPT(2)/FFP	RAYTHEON CORP., MARLBORO, MA	JAN 01	JUL 01	Y		
DIGITAL AIRPORT SURVEILLANCE RADAR (DASR) (1)										
FY00			AFMC/ESC	OPT(3)/FFP	RAYTHEON CORP., MARLBORO, MA	JAN 00	MAY 01	Y		
FY01			AFMC/ESC	OPT(3)/FFP	RAYTHEON CORP., MARLBORO, MA	JAN 01	MAY 02	Y		
VOICE COMMUNICATIONS SYSTEM (VCSS) (1)										
FY98			AFMC/ESC	OPT(4)/FFP	DENRO INC., GAITHERSBURG, MD	AUG 98	MAR 99			
FY99			AFMC/ESC	OPT(4)/FFP	DENRO INC., GAITHERSBURG, MD	JUN 99	JAN 00	Y		
FY00			AFMC/ESC	OPT(4)/FFP	DENRO INC., GAITHERSBURG, MD	JAN 00	OCT 00	Y		
FY01			AFMC/ESC	OPT(4)/FFP	DENRO INC., GAITHERSBURG, MD	JAN 01	AUG 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) (1)										
FY99			AFMC/ESC	C/FFP	UNKNOWN	MAR 99	AUG 99	Y		
<p>REMARKS:</p> <ol style="list-style-type: none"> 1. Equipment quantity and configurations are tailored to meet a specific site requirement. The result is varying unit costs. 2. The DAAS option is on the FAA Standard Terminal Automated Replacement System contract awarded in September 1996. 3. The DASR option is on the Air Force Digital Airport Surveillance Radar contract awarded in August 1996. 4. The VCSS option is on the FAA Enhanced Terminal Voice Switch contract awarded in July 1995. 										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$36,196	\$26,817	\$37,917	\$36,383	\$35,773	\$35,710	\$36,464	\$43,972
<p>Description:</p> <p>The Theater Air Control System Improvements (TACSI) program acquires and sustains the state-of-the-art equipment and capabilities essential to survival and combat effectiveness of tactical command and control (C2). Collectively, they provide the flexibility, responsiveness, reliability and maintainability necessary for effective C2.</p> <p>1. GROUND THEATER AIR CONTROL SYSTEM (GTACS): GTACS supports the roles of aerospace control, force application, force enhancement, and force support. This support is provided to worldwide operations ranging from military operations other than war and peacetime contingencies, to projecting decisive force into a major regional conflict to support a strategic war. The GTACS mission is to deploy a rapid reaction capability into a theater, then to forward locations within that theater and set up self-sufficient bases of operations. GTACS elements accomplish battle management, force allocation, control of airborne assets (counter air, aerial refueling, interdiction, close air support, reconnaissance, airlift, special operations missions, and others) surveillance, early warning, identification, and theater missile defense. GTACS consists of a family of communication/electronics components largely designed in the 1960s and is becoming logistically unsupportable. The GTACS program provides for connectivity among elements of the Theater Air Control System (TACS) within a designated Area of Responsibility to include United States Air Force, Navy, Marine Corps, Army, and allied assets. The requirements for funding are provided in the following categories:</p> <p style="margin-left: 40px;">a. MODULAR CONTROL EQUIPMENT (MCE) PRE-PLANNED PRODUCT IMPROVEMENTS (P3I)/OPERATIONS MODULE (OM) INTERFACE KITS: GTACS MCE mobile C2 centers link with existing Airborne Warning and Control Systems, Joint Stars, Airborne</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT		
Description (cont.): Battlefield C2 Center and other communication systems to provide the integrated air picture for command and control. The MCE P3I program, begun in FY93, is structured into multiple phases to replace obsolete equipment (operator consoles, shelters, computers, radios, etc.) in the GTACS and to upgrade C2 interoperability, flexibility, mobility, communications, and worldwide operational capability. Phase One integrated secure anti-jam Ultra High Frequency (UHF) radios, and an upgrade to the weapons control and Joint Tactical Air Operations data link software. Phase Two included development of OM interface kits to integrate a Joint Tactical Information Distribution System (JTIDS)/Tactical Digital Information Link-J (TADIL-J) capability; the integration of an Automated Air Tasking Order (AATO) capability; integration of secure anti-jam Very High Frequency (VHF) (SINCGARS) radios; and upgrades to the Ground Mobile Forces/Satellite Communications digital communications interfaces. FY98/99 funding provided equipment upgrades, Interim Contract Support (ICS) and program/engineering support. FY00/01 funding provides for ongoing equipment upgrades, to include software interoperability with the TADIL-J and the implementation of the Interim JTIDS Message Specification. b. OM INTERFACE KITS: FY98 funding completed the requirement for OM interface kits. No FY00/01 funds are requested. c. PROGRAM ENGINEERING SUPPORT: FY99-01 funding continues to provide program/engineering support MCE P3I composite capability now referred to as Link-16 (JTIDS TADIL-J). Operational fielding began Aug 98 with planned completion in the third quarter FY01. Lack of funding will not allow Federally Funded Research & Development Center (FFRDC) support and long range planning to ensure quality assurance, to correct deficiencies in the production baseline identified during test or operational service on current equipment, and to support Link-16 fielding. d. GTACS MODERNIZATION: GTACS modernization will consist of Defense Information Infrastructure Common Operating Environment (DII-COE) compliant software to support world-wide GTACS units employment; the Expert Missile Tracker (EMT) which will provide capability to organically detect, track and disseminate theater missile information; provide mid-life upgrades necessary to continue AN/TPS-75 ground sensor capability into the 21st century. In addition, modernization will integrate DII-COE/GCCS software and modernize				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT		
Description (cont.): commercial off-the-shelf (COTS) hardware components to support theater deployed and reach back capabilities for GTACS, and will enhance operational capabilities with reduced airlift requirements. FY00/01 funding will begin this modernization. e. AN/TPS-75 EQUIPMENT UPGRADE. The AN/TPS-75 is the supporting radar for the GTACS system. FY99/00 funding provides for the correction of deficiencies to the radar's frequency stability, section speed and noise, transmitter failures and power deficiencies. Lack of funding will impact target identification when the EMT is engaged; critical failures due to parts obsolescence will result in decreased support and preclude readiness of the radar and the GTACS systems. f. INTERIM CONTRACTOR SUPPORT (ICS): FY98-00 funds continue MCE ICS repair capability due to closure of McClellan AFB CA, and move to Tobyhanna Army Depot PA. Lack of funding would seriously impair operational capability, which could impact mission performance in a hostile environment. FY01 support will be available at Tobyhanna. FY98-00 funding also provides ICS for the Anti-Radiation Missile (ARM) Decoy which provides protection against armed threat to the AN/TPS-75 Radar. Arm Decoy ICS will be provided during warranty period and until organic depot capability is established following transition of the depot workload from Sacramento Air Logistics Center (SM-ALC), CA to Tobyhanna Army Depot, PA. Additionally, FY 98-00 funding provides ICS for the AN-TSC-147 JTIDS Module (JM) system. This provides Link-16 capability to the MCE. FY98-00 funding provides for ICS until a Contractor Logistics Support (CLS) contract is established in FY01. If ICS is unfunded, supportability of JTIDS products will be severely degraded and GTACS units' operational readiness will be impacted without a repair capability in place. 2. AIR FORCE MISSION SUPPORT SYSTEM (AFMSS): This program provides a suite of mission planning systems when integrated with Theater Battle Management (TBM) systems, aircrews can electronically receive tasking orders and intelligence information; prepare and calculate flight and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predictions); and electronically transfer this data to the aircraft and weapons. These systems increase the combat effectiveness of Air Force (active duty, guard, and reserve forces) and Special Operations Forces aircraft and weapons by increasing wartime sortie rates, supporting sophisticated avionics and precision/autonomous				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT		
Description (cont.): guided munitions, and providing the ability to analyze and defeat complex threats. The program procures the following computers: Mission Planning System (MPS), Portable Mission Planning System (PMPS), MPS Upgrades, Rugged Portable Flight Planning Software (PFPS), and Non-Ruggedized (NR) PFPS. These workstations provide a cost effective range of increasingly more capable systems to meet the continuum of peacetime, contingency, and wartime mission planning requirements. Funds will procure MPS and MPS upgrades, ruggedized and non-ruggedized PFPS and program engineering support. a. MISSION PLANNING SYSTEM (MPS): MPS consists of 1-5 transportable UNIX-based workstations integrated with AFMSS/MPS software to provide considerable mission planning functionality, large data storage, and full interoperability with TBM systems. MPS quantities indicate the number of single seat workstations to be procured. FY98 and FY00/01 funding procures these workstations. b. MPS UPGRADES: MPS Upgrades include retrofit programs that upgrade existing workstation capabilities, performance, and size. FY98/99 funds procure a smaller MPS which reuses components from decommissioned MPSs to defray overall costs. These upgrades do not result in an increase to the total inventory of MPSs. No FY00/01 funds are requested. c. PFPS RUGGEDIZED: The Ruggedized PFPS consists of a rugged personal computer (PC) -based laptop computer integrated with AFMSS/PFPS software to provide flight planning functionality. Rugged PCs are required for aircraft that may operate from austere locations as defined in their concept of operations. FY98-01 funding procures these workstations. d. PFPS NON-RUGGEDIZED: The Non-Ruggedized PFPS consists of a non-rugged PC-based laptop computer integrated with PFPS software to provide flight planning functionality. Non-Rugged PCs provide capability to aircraft that do not operate from austere locations at a significantly lower unit cost. FY98 and FY00/01 funding procures these workstations.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
1. GTACS				{21951}			{20720}			{25173}			{18868}	
A. MCE P3I OM INTERFACE KITS	A			6,998			12,741			8,728			2,229	
B. OM INTERFACE KITS	A	26	367,000	9,542										
C. PROG. ENG. SUPPORT				4,261			3,379			3,200			3,325	
D. GTACS MODERNIZATION										10,273			13,314	
E. AN/TPS 75 EQ UPGRADE							3,250			1,322				
F. INTERIM CONTRACTOR SUPPORT (ICS)				1,150			1,350			1,650				
2. AIR FORCE MISSION PLANNING SYSTEM (AFMSS)				{14245}			{6097}			{12744}			{17515}	
A. MISSION PLANNING SYSTEM (MPS)	A	15	69,000	1,035				63	67,000	4,221	73	67,000	4,891	
B. MPS UPGRADES	A	139	38,000	5,282	78	37,316	2,911							
C. PORTABLE FLIGHT PLANNING SYSTEMS (PFPS) RUGGEDIZED (R)	A	728	8,000	5,824	451	5,281	2,382	953	6,500	6,195	1,235	6,500	8,028	
D. PFPS-NON-RUGGEDIZED (NR)	A	44	6,000	264				138	6,000	828	443	6,000	2,658	
E. PROGRAM/ENGINEERING SUPPORT				1,840			804			1,500			1,938	
TOTALS:				36,196			26,817			37,917			36,383	
REMARKS:														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. GTACS										
B. OM INTERFACE KITS										
FY98	26	367,000	AFMC/SM-ALC	OPT/FFP	LITTON DATA SYSTEMS, AGOURA HILLS, CA (1)	NOV 97	FEB 99			
2. AFMSS										
A. MPS										
FY98	15	69,000	AFMC/ESC	OPT/FFP	GOVERNMENT TECHNOLOGY SERVICES, INC (GTSI), CHANTILLY, VA	MAR 98	JUN 98			
FY00	63	67,000	AFMC/ESC	OPT/FFP	MULTIPLE (2)	JAN 00	APR 00	Y		
FY01	73	67,000	AFMC/ESC	OPT/FFP	MULTIPLE (2)	JAN 01	APR 01	Y		
B. MPS UPGRADES										
FY98	139	38,000	AFMC/ESC	OPT/FFP	GOVERNMENT TECHNOLOGY SERVICES, INC (GTSI), CHANTILLY, VA	MAR 98	JUL 98			
FY99	78	37,316	AFMC/ESC	OPT/FFP	MULTIPLE (2)	JAN 99	MAY 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
C. PFPS-R										
FY98	728	8,000	AFMC/ESC	OPT/FFP	GOVERNMENT TECHNOLOGY SERVICES, INC (GTSI), CHANTILLY, VA	MAR 98	APR 98			
FY99 (3)	451	5,281	AFMC/ESC	OPT/FFP	MULTIPLE (2)	FEB 99	MAR 99			
FY00	953	6,500	AFMC/ESC	OPT/FFP	MULTIPLE (2)	FEB 00	MAR 00	Y		
FY01	1235	6,500	AFMC/ESC	OPT/FFP	MULTIPLE (2)	FEB 01	MAR 01	Y		
D. PFPS-NR										
FY98	44	6,000	AFMC/ESC	OPT/FFP	MULTIPLE (2)	JUN 98	JUL 98			
FY00	138	6,000	AFMC/ESC	OPT/FFP	MULTIPLE (2)	FEB 00	MAR 00	Y		
FY01	443	6,000	AFMC/ESC	OPT/FFP	MULTIPLE (2)	FEB 01	MAR 01	Y		
REMARKS: 1. Option from FY94 contract for the original purchase of 35 OM interface kits. 2. AFMSS components are procured as commercial-off-the-shelf equipment available through various contract sources (i.e., GSA, various IDIQ contracts, blanket purchase agreements). Examples of contractors include Beyond Technology (BTG), Fairfax VA; Government Technology Service, Inc. (GTSI), Chantilly VA; and Tracor Enterprise Solutions, Reston, VA. 3. Price reflects one-time availability due to excess warehouse inventory.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$21,124	\$18,352	\$25,434	\$26,434	\$28,854	\$27,643	\$28,172	\$28,750
<p>Description:</p> <p>This is a continuing program for acquisition of meteorological and space environmental equipment supporting the global missions of the Air Force, the Army, Special Operations Forces, unified commands, and other government agencies. In support of the Expeditionary Aerospace Force (EAF) concept, fixed and transportable equipment provides observing and forecasting capabilities at in-garrison and deployed locations.</p> <p>Beginning in FY00, Air Force Weather programs will be aligned under the five core competency areas of collection, analysis, forecasting, product tailoring/warfighter applications, and dissemination described in the Air Force Weather Mission Support Plan. Through this alignment, Air Force Weather will ensure an integrated and systems-oriented approach to program management decisions. FY98/99 program funding will be addressed as identified in previous budget documents with cross reference to the new program descriptions for any applicable FY00/01 funding.</p> <p>1. TACTICAL OBSERVING AND FORECASTING SYSTEM (TOFS): The TOFS will give deployed weather forces the capability to manually collect weather elements, manipulate data, and disseminate weather observations, forecasts, advisories, warnings, briefings, and current weather information to air operation centers, flying squadrons, air traffic control facilities, deployed weather teams, and Army elements located within a theater of operations. TOFS has two components: the Tactical Forecast System (TFS) and the Manual Observing System (MOS). Inadequate funding for TOFS will cripple first-in observation and forecasting capability directly supporting deployed Air Force and Army operations.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST		
Description (cont.): <p>a. TFS is a small, lightweight "first-in" combat weather forecast capability when fed from a regional Operational Weather Squadron. The TFS will consist of government-furnished software and commercial off-the-shelf (COTS) hardware, and COTS satellite communications systems, Very Small Aperture Terminal (VSAT) . The system will receive and disseminate data via theater deployable communications, satellite communications, or operate in a stand-alone configuration receiving weather data through DoD weather dial-in services. TFS will replicate most in-garrison operations, enhancing operator proficiency and minimizing the need for special training. When deployed, TFS will replace large, error prone systems that have dissimilar components. The total Air Force requirement is 306. Prior year funding began procurement of TFS systems. FY98/99 funds procure initial TFS systems. Procurement of Meteorological Operations Capability/Air Force Workstations (MOC/AFWS) under Product Tailoring/Warfighter Applications via FY00/01 funding will complete the fielding of TFS capabilities (described in paragraph 7 of this document).</p> <p>b. The VSAT provides the required two-way (send/receive) communications to support world-wide operations of the TFS. VSAT is a COTS-based acquisition. FY99 completes the procurement of VSAT. No FY00/01 funds are requested.</p> <p>c. MOS is a single-person portable system containing basic weather observing equipment. MOS procurement began with prior year funding. FY 98/99 funds will continue the procurement. FY00/01 funding will continue the MOC Surface Observing/Manual (SO/M) procurement under Weather Data Collection (described in paragraph 5 of this document).</p> <p>2. AIR FORCE COMBAT CLIMATOLOGY CENTER (AFCCC) REPLACEMENT (AFCCC-R): The AFCCC-R program will replace/upgrade the computer systems required at AFCCC, Scott AFB IL, Operating Location-A (OL-A), AFCCC, Asheville NC, and at the Air Force Weather Agency (AFWA), Offutt AFB NE. AFCCC-R provides improved climatological support to DoD customers worldwide, providing the climatological support required by Air Force and Army planners, Air Force weapon systems developers, and defense modeling and simulation activities. FY98 funds complete procurement of hardware, contractor data, and installation of the systems. No FY00/01 funding are</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST		
Description (cont.): requested.				
<p>3. SATELLITE DATA HANDLING SYSTEM (SDHS): SDHS is a fixed suite of forecaster workstations within AFWA which provides the global, large scale satellite data information to DoD customers worldwide. It incorporates weather satellite imagery and weather observations to allow forecasters to produce analysis and forecast weather products for worldwide DoD missions. This upgrade will allow SDHS to receive, store, archive, and process new sources of foreign geostationary weather satellite data and weather information used to tailor operational forecasts for warfighters worldwide. FY98 funds the computer hardware required for this effort and completes the upgrade. No FY00/01 funding requested.</p> <p>4. AUTOMATED SURFACE OBSERVING SYSTEMS (ASOS): This program provides limited automated weather observations at ranges, unattended airfields, and after duty hours at limited duty weather stations. The FY98 funding purchased 12 additional systems. No FY00/01 funding is requested.</p> <p>5. WEATHER DATA COLLECTION: This program merges currently executing Tactical Weather Radar (TWR) and MOS with the MOC. The components of MOC are the Observing System 21st Century (OS-21), the Surface Observing/Manual (SO/M), and the Surface Observing/Remote (SO/R). MOC will integrate weather radars and meteorological sensors into a single meteorological sensing and instrumentation package for battlefield and in-garrison operations. This scalable, consolidated program implements AF Weather Re-engineering and supports the objectives of the EAF and the Army Force XXI Strategic Plan. Inadequate funding will deny combat forces the ability to observe weather conditions in areas where hostile forces possess and/or seek to deny this information.</p> <p>a. TACTICAL WEATHER RADAR (TWR): The TWR program supports worldwide military operations by providing tactical/deployable Doppler weather radar capability, replacing existing radars at deployed locations and at fixed locations overseas. The current deployable (TPS-68) and fixed (FPQ-21 and FPS-77) weather radars require unacceptably high levels of maintenance and, therefore, do not meet</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST		
Description (cont.): operational needs for flight operations and resource protection. The TWR provides the combat forces a modern, Doppler radar technology and will allow connectivity to programmed weather forecast systems for the distribution of severe weather products to standard Command, Control, Communications, Computer, and Intelligence (C4I) systems. FY98 funds begin procurement with the purchase of one deployable radar for Operational Test and Evaluation. FY99 dollars purchase one deployable radar and one fixed radar. Outyear funding continues the program. FY00 funds will procure 6 fixed and 12 deployable systems. FY01 funds will procure 3 fixed and 3 deployable systems. Total inventory objective is 17 deployable (1 for training) and 10 fixed. Inadequate funding will diminish tactical weather radar data in C4I systems, adding unnecessary risk to warfighter decisions. b. MOC OS-21 are fixed field observing systems. FY00/01 funds will procure initial systems. c. The SO/M is primarily a hand-held manual system for deployed operations when an automated surface observing capability is not available. FY00/01 funds will procure initial systems. d. The SO/R is a remotely operated system for sensing battle space atmospheric conditions and able to collect weather data from behind enemy lines, remote locations, and other denied areas. FY01 funds will procure initial systems. 6. WEATHER FORECASTING: This program is the cornerstone for strategic, operational, and tactical level weather forecasting models used to support worldwide military operations and supports the Air Force, Army, Special Operations, and other government agencies. Hardware upgrades and replacements provide streamlined computer and communications architectures at forecast centers, ensuring weather system interoperability with DoD standard communications and C4I systems. Inadequate funding will deny critical theater battle management (TBM) weather data to warfighters and national programs at all levels. a. CLOUD DEPICTION AND FORECAST SYSTEM (CDFS) II: CDFS II provides hourly, high resolution, worldwide cloud analyses,				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST		
Description (cont.): forecasts, and products to all operational forces and other U.S. government agencies worldwide. Funding purchases equipment to replace logistically unsupportable mainframe computers at the AFWA and upgrades satellite data processing, cloud depiction, and classified weather support functions for operational commanders and National Programs, providing a capability that cannot be met with the current system. FY98 funds began the procurement, buying interface and cloud analysis hardware and associated software. FY99 funds procure cloud-forecast hardware/software plus the network and integration required for the system. FY00 funding will bring the program to final operational capability, and will begin merging the strategic and theater level forecasting systems at the weather centers and Operational Weather Squadrons (OWS) in support of the AF Weather Strategic Plan. No FY01 funding requested. b. GLOBAL THEATER WEATHER ANALYSIS AND PREDICTION SYSTEM (GTWAPS): GTWAPS replaces the computer hardware and software that comprise the Advanced Weather Analysis and Prediction System located at AFWA. GTWAPS will improve support to the warfighter by incorporating an advanced computing platform, providing for future expanding computer requirements, state-of-the-science theater-scale analysis and forecast software, the capability to ingest and use observation from classified locations, and provide forecast products consistent with TBM requirements. FY98/99 funds the hardware procurement. FY00 funding will bring the program to final operational capability, and will begin merging the strategic and theater level forecasting systems at the weather centers and OWS in support of the AF Weather Strategic Plan. No FY01 funding requested. c. SPACE WEATHER ANALYSIS AND FORECAST SYSTEM (SWAFS): SWAFS will replace the aging and logistically unsupportable hardware and software currently located at the 55 th Space Weather Squadron (55SWXS) (Schriever AFB, CO), and will transition the current proprietary space weather system to an open system environment. The 55SWXS is unique—DoD's only center with equipment, data, models, application programs, and expertise for providing observations, analyses, and forecasts of the space environment in support of DoD and National Programs. SWAFS will replace four separate computer clusters while sustaining continuous operational availability. SWAFS will integrate near-term Space Environmental Technology Transition (SETT) models, currently under development (reference R-2 Exhibit, Descriptive Summary, Project 2738, PE 35111), revamp capability by implementing current and future technologies and applications to derive warfighter				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST			
Description (cont.): products and future, advanced-physics, SETT models into the operational system. SWAFS modernizes the 55SWXS and accomplishes the following: transitions from the Automatic Digital Information Network (AUTODIN) to the Defense Message System (DMS); complies with DoD information technology standards such as the Defense Information Infrastructure (DII) Common Operating Environment (COE); and ensures interoperability with Global Command and Control System (GCCS). FY98 funded the initial hardware purchase to replace high failure rate systems. FY99 funds initiate a modernization effort, begin the conversion to an open-system architecture, and integrate control of, and data ingest from, upgraded Solar Environment Observation Network (SEON) instruments. FY00/01 funds will continue implementation of an open-systems architecture, a transition to modernize and upgrade current and new operational capabilities, and integration of upgraded solar and radio observatories. 7. PRODUCT TAILORING/WARFIGHTER APPLICATIONS: FY00 funding will begin the fielding and integration of the Meteorological Operations Capability/Air Force Workstations (MOC/AFWS) at fixed and deployed Air Force and Army locations around the world. This program procures additional TFS capabilities, and supports the fielding of Operational Weather Squadrons and Combat Weather Teams as directed by the Air Force Weather Strategic Plan. This approach will support customer-driven demands for weather information using Defense Information Infrastructure Common Operating Environment compliant, Commercial-off-the-Shelf/Government-off-the-Shelf hardware and associated software. FY01 funding will complete the fielding of TFS capabilities. This program also ensures the employment of "train as you fight" strategies and fully supports interoperability with DoD C4I systems.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)						DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
3. SATELLITE DATA HANDLING SYSTEM (SDHS)				{273}									
PRIME MISSION EQUIPMENT	A			273									
4. ASOS				{4000}									
PRIME MISSION EQUIPMENT	A	12	283,000	3,396									
ENG/PROGRAM MGT				604									
5. WEATHER DATA COLLECTION				{800}			{1377}			{13821}			{15429}
A. TWR				{800}			{1377}			{6876}			{2629}
PRIME MISSION EQUIPMENT	A	1	400,000	400	2	400,000	800	18	350,000	6,300	6	350,000	2,100
TECHNICAL DATA				100			106			106			109
ENGR/PROGRAM MGT				300			471			470			420
B. MOC OS-21										{4451}			{9137}
PRIME MISSION EQUIPMENT	A							65	58,000	3,770	150	54,000	8,100
TECHNICAL DATA										181			537
ENGR/PROGRAM MGT										500			500
C. MOC SO/M										{2494}			{1501}
PRIME MISSION EQUIPMENT	A							220	10,000	2,200	120	10,000	1,200
TECHNICAL DATA										100			100
ENGR/PROGRAM MGT										194			201

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
7. PRODUCT TAILORING & WARFIGHTER APPLICATIONS										{2906}			{4915}
PRIME MISSION EQUIPMENT	A							47	47,000	2,209	85	47,000	3,995
TECHNICAL DATA										197			420
ENGR/PROGRAM MGT										500			500
TOTALS:				21,124			18,352			25,434			26,434
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. TOFS										
A. TFS (1)										
FY98	59	48,000	AFMC/ESC	C/CPFF	RAYTHEON, INDIANAPOLIS, IN (2)	JAN 99	APR 99			
FY99	47	48,000	AFMC/ESC	OPT/CPFF	RAYTHEON, INDIANAPOLIS, IN (2)	JAN 99	APR 99			
B. TFS (VSAT)										
FY99	200	15,000	HQ AWS	C/CPFF	RAYTHEON, BELLEVUE, NE (3)	FEB 99	APR 99			
C. MOS										
FY98	55	9,090	HQ AWS	OPT/FFP	LITTON, WINDSOR , CT (4)	OCT 97	JAN 98			
FY99	19	9,000	HQ AWS	OPT/FFP	LITTON, WINDSOR , CT (4)	OCT 98	JAN 99			
2. AFCCC-R (5)										
FY98			AFMC/ESC	OPT/FPIF	RAYTHEON, OMAHA, NE (6)	OCT 97	AUG 98			
3. SDHS (5)										
FY98			HQ AWS	OPT/CPAF	STERLING CORP, BELLEVUE, NE(7)	OCT 97	APR 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
4. ASOS										
FY98	12	283,000	HQ AWS	OPT/FFP	SMI, HUNT VALLEY, MD (8)	JUL 98	NOV 98			
5. WEATHER DATA COLLECT										
A. TWR										
FY98	1	400,000	AFMC/ESC	MIPR/C/FFP	RAYTHEON, INDIANAPOLIS, IN (2)	SEP 98	APR 99			
FY99	2	400,000	AFMC/ESC	MIPR/OPT/FFP	RAYTHEON, INDIANAPOLIS, IN (2)	JAN 99	SEP 99			
FY00	18	350,000	AFMC/ESC	MIPR/OPT/FFP	RAYTHEON, INDIANAPOLIS, IN (2)	NOV 99	JUL 00	Y		
FY01	6	350,000	AFMC/ESC	MIPR/OPT/FFP	RAYTHEON, INDIANAPOLIS, IN (2)	NOV 00	JUL 01	Y		
B. MOC OS-21										
FY00	65	58,000	AFMC/ESC	C/FPIF	UNKNOWN	JAN 00	JUN 00	N	SEP 99	
FY01	150	54,000	AFMC/ESC	OPT/FPIF	UNKNOWN	NOV 00	FEB 01	N	SEP 99	
C. MOC SO/M										
FY00	220	10,000	AFMC/ESC	C/FPIF	UNKNOWN	JAN 00	MAR 00	N	SEP 99	
FY01	120	10,000	AFMC/ESC	OPT/FPIF	UNKNOWN	NOV 00	JAN 01	N	SEP 99	
D. MOC SO/R										
FY01	186	10,000	AFMC/ESC	C/FPIF	UNKNOWN	NOV 00	APR 01	N	SEP 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
6. WEATHER FORECASTING (10)										
A. CDFS II										
FY98			AFMC/SMC	OPT(9)/CPAF	STERLING CORP, BELLEVUE, NE	OCT 97	SEP 99			
FY99			AFMC/SMC	OPT(9)/CPAF	STERLING CORP, BELLEVUE, NE	OCT 98	SEP 00			
FY00			AFMC/SMC	OPT(9)/CPAF	STERLING CORP, BELLEVUE, NE	OCT 99	SEP 01	Y		
B. GTWAPS										
FY98			AFMC/ESC	C/FPIF	TRW, BELLEVUE, NE	OCT 97	MAR 98			
FY99			AFMC/ESC	OPT/FPIF	TRW, BELLEVUE, NE	FEB 99	AUG 99			
FY00			AFMC/ESC	OPT/FPIF	TRW, BELLEVUE, NE	OCT 99	MAR 00	Y		
C. SWAFS										
FY98			AFMC/SMC	DO/IDIQ	TRACOR	APR 98	MAY 98			
FY99			AFMC/SMC	C/CPAF	UNKNOWN	JUN 99	SEP 99	Y		
FY00			AFMC/SMC	OPT/CPAF	UNKNOWN	OCT 99	JUN 00	Y		
FY01			AFMC/SMC	OPT/CPAF	UNKNOWN	OCT 00	JUN 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
7. PRODUCT TAILORING & WARFIGHTER APPLS										
MOC AFWS										
FY00	47	47,000	AFMC/ESC	OPT(10)/FPIF	RAYTHEON, INDIANAPOLIS, IN (10)	NOV 99	JAN 00	Y		
FY01	85	47,000	AFMC/ESC	OPT(10)/FPIF	RAYTHEON, INDIANAPOLIS, IN (10)	NOV 00	JAN 01	Y		
REMARKS: 1. Legal challenges delayed the intital contracting strategy for TFS until the end of January 1999. Upon implementation of that strategy, delivery orders for both FY98 and FY99 will be placed at the same time. 2. Delivery order on U. S. Navy contract to Raytheon, Indianapolis, IN. 3. Information Technology contract with Raytheon through GSA, Kansas City, KS. 4. Option to Litton Contract awarded Aug 96. 5. Quantities and unit costs vary according to site configuration. 6. Option to Defense Micro Electronics Activity contract, formerly Advance Technology Systems, administered at McClellan AFB, CA, awarded Aug 96. 7. Satellite Data Handling System (SDHS) support and services contract re-competed Nov 96. 8. Option to basic National Weather Service contract, awarded Aug 97. 9. Option to basic Cloud Depiction and Forecast System (CDFFS) 2 contract for hardware, support and services, awarded Jun 95. 10. Option to TFS contract. See remark #2.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$19,748	\$10,821	\$22,143	\$21,063	\$19,774	\$17,028	\$16,207	\$16,922
<p>Description:</p> <p>The Strategic Command and Control program procures mission critical communications and computer systems required to ensure the President of the United States has the capability for effective command and control 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. The program supports life-cycle replacement of outdated and unreliable communications equipment in support of the B-2 Program.</p> <p>1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is the single survivable national command and control (C2) automated information system (AIS) supporting the National Command Authorities (NCA), Joint Staff, and nuclear Commanders-in-Chief (CINCs) in the trans/post phases of nuclear conflict. The NPES requirement is both aircraft and non-aircraft. This funding requirement covers only the non-aircraft requirement. Funding for NPES will ensure that the National Air Operations Center (NAOC) platform will keep pace with its ground mobile and fixed site command center counterparts. This capability mirrors fixed and ground mobile command centers with the ability to receive, process, and transmit battle staff information while flying. Prior year funds procured the first and second suite of equipment for the NAOC aircraft/ground platform. FY00 funding will procure the third suite of equipment. In addition, one suite of equipment will be purchased for the NAOC command post facility. The command post system is not required to meet the same Federal Aviation Administration (FAA) requirements as the NAOC aircraft/ground system. Therefore, the cost of acquiring a complete command post system is much less than the cost of a single system for the NAOC aircraft/ground system. FY01 funding procures the fourth suite of equipment for the NAOC aircraft/ground platform.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL		
Description (cont.): 2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The CINC Mobile Consolidated Command Center (MCCC) provides contingency reconstitution and continuity for command capabilities to accomplish direct CINC missions in the event primary C2 facilities are incapacitated. The FY00/01 funding supports the following efforts: Wideband conferencing - required to participate, monitor, and initiate numerous secure voice conferencing events throughout all phases of nuclear conflict; personal computer (PC) upgrades - due to necessary application software upgrades; battle management shelter upgrades; Weather Satellite Receiver upgrade; Ground Nuclear Terminal (GNT) Gateway upgrade; DoD Intelligence Information Systems upgrades; and Shower System Field Mobile (SSFM) upgrades. FY00/01 funding will include Radio Frequency (RF) Databus replacement due to obsolescence and logistics unsupportability; Defense Message System replacement of AUTODIN; Global Command and Control System (GCCS) integration; Global Broadcast System (GBS) integration; and upgrades of final operational capability (FOC) power and the Modernized Intelligence Database (MIDB). 3. STRATEGIC WAR PLANNING SYSTEM (SWPS): This funding continues the phased modernization and life-cycle replacement of the SWPS. SWPS is one of DoD's most complex classified computer systems, and the only system that produces the Single Integrated Operational Plan (SIOP) which assigns a target to every strategic nuclear warhead in the US inventory. 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. FY98 funds transitioned SWPS to a client-server environment, the infrastructure required to meet initial operational capability (IOC) of the approved modernization plan. A major life-cycle workstations upgrade began in FY99, with completion scheduled in FY00. Life-cycle upgrades, to include personal computer and server replacements, will be scheduled during FY00. The network infrastructure upgrade required to meet FOC will be implemented in FY01, along with continued Personal Computer (PC) and server life-cycle upgrades. 4. B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability. These funds support the following B-2 dedicated systems:				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL		
Description (cont.): <p>a. ENGINEERING DATA SYSTEMS (EDS): EDS provides engineers specialized computers for on-line access to B-2 aircraft data. This data consists of engineering analysis, manufacturing data, aircraft designs, and software documentation to help solve technical issues on B-2 aircraft in the field which is 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 in CA. FY98 funds continued the modernization of EDS computers by purchasing commercial off-the-shelf (COTS) hardware (computers, scanners, plotters, printers) and associated software. FY99/00 funds procure new Computer Aided Design (CAD) workstations, upgrade system servers, purchase additional Redundant Array of Inexpensive Disks (RAID) storage capability (data storage device with multiple disks), and migrate much of the system to Windows NT format. FY01 funds will upgrade PC workstations and servers to then-current technology.</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 defensive management system. These software maintenance fixes are accomplished with the use of the WSSC's Software Development System (SDS), a complex VAX computer, by analyzing and designing fixes to existing aircraft software. FY98 funds expanded the internal Local Area Network (LAN) for a 60,000 square foot addition to the WSSC, adding fiber cable, network components, computers, commercial software, fiber boxes, patch panels, and jumper fiber cables to connect to the original portion of the WSSC. FY99 funds provide upgrades to subcontractor software laboratories that are being relocated from Northrop Grumman's California facility to Oklahoma City Air Logistics Center, OK. These contractor laboratories are 1980s vintage systems. FY00 funds will begin the replacement of obsolete equipment and computers. FY01 funds will continue the replacement of obsolete equipment and computers, as well as upgrade existing LANs to current technologies and capabilities.</p>				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	A		\$0		\$242		\$391		\$203	
2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A		\$0		\$0		\$3,972		\$1,576	
3. STRATEGIC WAR PLANNING SYSTEM (SWPS)	A		\$9,286		\$4,479		\$11,962		\$13,126	
4. B-2 SUPPORT			\${10462}		\${6100}		\${5818}		\${6158}	
A. ENGINEERING DATA SYSTEM (EDS)	A		\$3,816		\$1,715		\$1,478		\$3,024	
B. WEAPONS SYSTEM SUPPORT CENTER (WSSC)	A		\$6,646		\$4,385		\$4,340		\$3,134	
Totals:			\$19,748		\$10,821		\$22,143		\$21,063	
Remarks:										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES) (1)										
FY99			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 98	JAN 99			
FY00			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 99	JAN 00	Y		
FY01			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 00	JAN 01	Y		
2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC) (1)										
FY00			AFMC/ESC	OPT/CPAF	JAYCOR, ALBUQUERQUE, NM	OCT 99	JAN 00	Y		
FY01			AFMC/ESC	OPT/CPAF	JAYCOR, ALBUQUERQUE, NM	OCT 00	JAN 01	Y		
3. STRATEGIC WAR PLANNING SYSTEM (SWPS) (1)										
FY98			USSTRATCOM	C/FP	MULTIPLE (2)	OCT 97	FEB 98			
FY99			USSTRATCOM	C/CPAF	MULTIPLE (2)	OCT 98	JAN 99			
FY00			USSTRATCOM	C/CPAF	MULTIPLE (2)	JAN 00	FEB 00	N	DEC 99	
FY01			USSTRATCOM	C/CPAF	MULTIPLE (2)	JAN 01	FEB 01	N	DEC 00	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
4. B-2 SUPPORT (1)										
A. ENGINEERING DATA SYSTEMS (EDS)										
FY98			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 98	APR 98			
FY99			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 99	APR 99	Y		
FY00			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 00	APR 00	Y		
FY01			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 01	APR 01	Y		
B. WPN SYS SUPPORT CENTER (WSSC)										
FY98			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 98	JUL 98			
FY99			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 99	JUL 99	Y		
FY00			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 00	JUL 00	Y		
FY01			AFMC/OC-ALC	OPT(3)/OTH	MULTIPLE (3)	MAR 01	JUL 01	Y		
REMARKS: (1) Varying Unit Costs and Quantities due to multiple types of equipment being procured. (2) 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; and Cordant, Reston, VA. Award/delivery dates are the first contract award and delivery dates. (3) 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 first contract award and delivery dates.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$710	\$894	\$6,371	\$4,698	\$2,853	\$4,189	\$4,819	\$3,500
<p>Description:</p> <p>This program supports acquisition for Cheyenne Mountain Complex (CMC). The CMC program: (1) provides real-time processing and display of missile warning and force management information to the CMC and the Alternate Missile Warning Center (AMWC), and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) provides communication services for all communications into or out of CMC and between CMC mission processors; (3) replaces the processors and display systems supporting the North American Aerospace Defense (NORAD) Air Center (NAC), NORAD Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) provides an effective command post to support NORAD's multiple warning and defense missions; (5) automates the manual handling of space surveillance and warning messages; (6) provides communications interface processors at all missile warning sensors and command centers; and (7) provides an alternate missile warning center. The program also provides Air Force Space Command (AFSPC) with funding needed to acquire communications and computer equipment in support of US Space Command (USSPACECOM) command centers and sensor systems; AFSPC Base Level Switching systems; the Defense Message System (DMS) and Base Network Control Center (BNCC); USSPACECOM Mobile Consolidated Command Center (formerly known as CINC Mobile Alternate Headquarters (CMAH)); and the Cheyenne Mountain Training System (CMTS).</p> <p>1. NORAD/USSPACECOM WARFIGHTING SUPPORT SYSTEM (N/UWSS): N/UWSS is the means by which the Integrated Tactical Warning/Attack Assessment (TW/AA) "system of systems" will evolve to meet Commander-in-Chief NORAD/Commander-in-Chief US Space Command (CINCNORAD/USCINCSpace's) evolving mission requirements and achieve Defense Information Infrastructure Common Operating Environment (DII COE) compliance. This project is consistent with the Air Force Long Range Plan, Joint Vision 2010, and the</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX				
Description (cont.): Defense Planning Guidance. N/UWSS objectives are to provide NORAD/USSPACECOM a command and control (C2) system that is flexible in responding to evolving mission needs; interoperable within the NORAD/USSPACECOM warfighting functions and supporting/supported CINCs; and achieves reductions in total cost of ownership. FY98-01 funds procure NORAD/USSPACE migration path for DII COE , and acquires the DII COE compliant hardware and software applications. 2. COMMANDER-IN-CHIEF (CINC) MOBILE CONSOLIDATED COMMAND CENTERS (MCCCs): The United States (US) Space Command and US Strategic Command MCCCs provide contingency reconstitution and continuity of command capabilities to accomplish directed CINC missions in the event primary C2 facilities are incapacitated. The significant funding increase between FY99 and FY00 is due to a significant increase in high priority requirements due to Joint Chief of Staff (JCS) mandate that mobile C2 systems (both MCCCs) shall remain viable, operational, and interoperable with national and CINC missions. FY98-01 funding supports the following MCCC efforts: - Replacing the Modular Architecture for the Exchange of Intelligence (MAXI) system with the Defense Automated Warning System (DAWS) Message Front End (DMFE). This effort involves removing the existing MAXI servers and workstations; installing the DMFE servers and workstations; and modifying racks, cabling, and workspaces. Funding also provides logistics support to include documentation and configuration management. - Upgrading the Defense Red Switch Network (DRSN) requiring integration of Digital Small Switches into two shelters and distribution of user handsets throughout the platform. - Integrating Nuclear Planning and Execution System Client/Server (NPES C/S) servers and workstations into the platform.						
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX			
Description (cont.): <ul style="list-style-type: none">- Integrating additional DSS components and Communications Security (COMSEC) equipment required for Secure Voice conferencing capability.- Integrating two suites of Defense Message System (DMS) equipment and removing the Communications Support Processor (CSP) and DMFE systems.- Removing Radio Frequency (RF) components from the platform, affecting every mission shelter. Includes the integration of a new Data Distribution System (DDS) to include backbone, message switches, routers, and data converters. Modifications will have to be made to every server and workstation on the platform.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. N/UWSS (TW/AA)	A		\$258		\$446		\$500		\$608
2. CINC MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)	A		\$452		\$448		\$5,871		\$4,090
Totals:			\$710		\$894		\$6,371		\$4,698
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. N/UWSS (TW/AA) (1)										
FY98			HQ AFSPC	MIPR/OPT/FP	MULTIPLE (2)	MAR 98	AUG 98			
FY99			HQ AFSPC	MIPR/OPT/FP	MULTIPLE (2)	MAR 99	AUG 99	Y		
FY00			HQ AFSPC	MIPR/OPT/FP	MULTIPLE (2)	MAR 00	AUG 00	Y		
FY01			HQ AFSPC	MIPR/OPT/FP	MULTIPLE (2)	MAR 01	AUG 01	Y		
2. CINC MOBILE CONSOLIDATED COMMAND CENTERS (MCCC) (1)										
FY98			AFMC/ESC	MIPR/FP	SANDIA NATIONAL LABS, ALBUQUERQUE, NM	OCT 97	DEC 97			
FY99			AFMC/ESC	OPT/CPAF	JAYCOR, ALBUQUERQUE NM (3)	DEC 98	MAR 99			
FY00			AFMC/ESC	SS/FFP	JAYCOR, ALBUQUERQUE NM	OCT 99	MAR 00	Y		
FY01			AFMC/ESC	OPT/FFP	JAYCOR, ALBUQUERQUE NM	OCT 00	MAR 01	Y		
REMARKS: 1. Various quantities and unit costs due to different site configurations. 2. Contractor examples include: Inel Corp, Idaho Falls, ID and Martin Marietta Corp., Denver, CO. Award/delivery dates represent the date of first award and first delivery. 3. Option to JAYCOR for Cost plus award fee contract awarded in 1995.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL SIGINT SUPPORT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$3,886	\$0	\$1,801	\$1,461	\$981	\$412	\$0	\$0
<p>Description:</p> <p>Tactical Signals Intelligence (SIGINT) Support procures a variety of signals processing, modeling, and support equipment necessary to operate and maintain tactical cryptologic programs. Funding also procures equipment to support ground processing functions associated with airborne operations.</p> <p>1. TACTICAL INFORMATION BROADCAST SERVICE (TIBS) IMPROVEMENTS: This is a continuing acquisition program which procures equipment, associated software, and peripherals to support the fielding of multi-sensor, multi-source intelligence correlation capabilities for TIBS. TIBS is a secret collateral-level near-real-time intelligence broadcast which provides situational awareness at all levels of command. TIBS provides dissemination of highly perishable threat or target information at all levels of command. HQ Air Intelligence Agency (AIA) TIBS Special Management Office (TIBS SMO) is the program manager for the TIBS program. As such, the TIBS SMO sets acquisition requirements for TIBS to include the following: software and hardware upgrades for the worldwide network architecture, new Service (Army, Navy, Air Force) changes, documentation, and equipment for training. The TIBS SMO acquires TIBS equipment through the BIG SAFARI program, which is managed by the Air Force Materiel Command.</p> <p>2. SENSOR ACE PROGRAM IMPROVEMENTS: This is a continuing program which procures specialized signals processing equipment and computer hardware for testing of hardware and software algorithms designed to detect and exploit target nation proforma (machine-to-machine) signals, such as navigation and Identification Friend or Foe (IFF). The rapid innovation of the information age highlights the criticality of modernizing proforma detection and processing equipment. Without accurate proforma data, situational awareness at all levels of command</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: TACTICAL SIGINT SUPPORT		
Description (cont.): would degrade to an unacceptable level. FY00-01 funding provides high speed digitizers for emerging higher data rates and pulsed signals in some target countries. 3. TACTICAL ANALYSIS AND REPORTING PROGRAM (TARP) IMPROVEMENTS: This is a continuing program which procures tech refresh of high power computers for high speed 3-dimensional simulation of target nation air tactics, as well as video production equipment to record and narrate results. Results are reviewed annually by intelligence and operational personnel at nine theater oriented conferences. Conference results affect air crew training, allow our forces to emulate adversary tactics at exercises such as Red Flag and Green Flag, and to develop and refine counter-tactics. FY01 funding provides tech refresh and video digitization capability.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL SIGINT SUPPORT						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. TIBS IMPROVEMENTS			\${3886}				\${1000}			
A. COMPUTER EQUIPMENT	A		\$2,400				\$610			
B. DOCUMENTATION			\$650				\$170			
C. PROGRAM SUPPORT			\$836				\$220			
2. SENSOR ACE IMPROVEMENTS							\${801}		\${801}	
A. SIGNAL PROCESSORS	A						\$801		\$801	
3. TARP IMPROVEMENTS									\$(660)	
A. VIDEO PROCESSING EQUIPMENT	A								\$105	
B. COMPUTER EQUIPMENT									\$555	
Totals:			\$3,886				\$1,801		\$1,461	
Remarks:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$36,965	\$34,303	\$71,173	\$65,693	\$63,502	\$59,596	\$60,585	\$64,201
<p>Description:</p> <p>This program provides for new acquisitions and equipment additions to government-owned computer systems. Items to be purchased are commercially available automatic data processing equipment (ADPE) and include: desktop computers and associated peripheral devices (keyboards, monitors, printers); file servers; local area networks; gateways; and routers, all from various manufacturers and third-party vendors for management and mission support applications. New systems and system upgrades directly support operational mission requirements. All programs in this line, through the use of specific hardware and software tools, will increase war fighting capability and enhance productivity in support of weapon systems. Funds will support a standard system infrastructure, allowing major commands to purchase computer equipment capabilities and quality networking.</p> <p>11TH SUPPORT WING (11SPTW)</p> <p>1. HEADQUARTERS INFORMATION TECHNOLOGY (IT) INVESTMENT: FY98-01 funds in this program provide significant infrastructure improvements in many ADPE categories at Headquarters, United States Air Force (HQ USAF). HQ USAF 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 Air Force directives and coordinating with DoD and the Joint Staff. HQ USAF personnel will receive computer systems which meet increased office automation needs. They will be afforded high quality, high speed connections to classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network (SIPRNET). HQ USAF personnel will also receive centralized services such as business-quality electronic mail and network management through programs such as Network File Sharing System.</p>								
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Description (cont.): Other investments include World Wide Web services, remote computing services, and video teleconferencing.				
2. HEADQUARTERS MAINFRAME SYSTEM SUPPORT: FY98-01 funds provide upgrades for magnetic tape systems to meet increasing data storage requirements and enhance the read/write capability and archival storage capacity of the magnetic tape systems; upgrades for mainframe communications equipment to maintain computer system and network interface compatibility and to provide customers required ADPE technology user enhancements; upgrades for mainframe hardware to meet the required ADP technology enhancements for customers and to maintain operating system and application software compatibility; upgrades for open systems' architecture to meet required ADP enhancements for customers and to improve system performance capability; upgrades for computer operations equipment (hardware/software) used by computer operations to manage the multiple ADP functions; and upgrades for print output media systems for printer and microfiche systems to improve operational throughput capacity.				
3. SECRETARY OF THE AIR FORCE FINANCIAL MANAGEMENT (SAF/FM) FINANCIAL INFORMATION RESOURCES SYSTEM (FIRST): No FY00/01 funding is requested.				
4. NATIONAL MILITARY COMMAND CENTER (NMCC): FY98-01 funds provide capital investment in new and updated ADPE for the National Command and Control System (NCCS) in the NMCC. The NCCS supports the Joint Staff and the National Command Authority with real-time crisis decision-making information. Funding upgrades the existing Video Recording Facility, which is currently failing to provide DOD's top decision makers with adequate audiovisual support. Also, funds provide fused tactical displays for increased integration of related information.				
5. TRANSPORTATION COORDINATORS' - AUTOMATED INFORMATION FOR MOVEMENT SYSTEM II (TC-AIMS II): This is a joint migration system that consolidates all DoD traffic management and unit move/deployment functionality into a single integrated and easily deployable transportation management system. It will provide in-transit visibility (ITV) data on deploying forces to the war fighting CINCs, as				
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Description (cont.): well as provide information via feeder systems to the Joint Operations and Execution System (JOPES). As TC-AIMS II runs on an upgraded Windows NT platform, existing hardware cannot support the application. Funds will buy hardware to field TC-AIMS II beginning in FY00. The funding will procure workstations/personal computers (PCs), laptops, servers, printers, and Advanced Information Technology (AIT) equipment. With the significant increase in deployment/operations tempo, TC-AIMS II is a vital, required enhancement. Consequently, fielding will focus on those locations with a high deployment/ops tempo, to include the Air Expeditionary Force (AEF) wings. No FY01 funding requested. AIR COMBAT COMMAND (ACC) 6. BASE OPERATIONS: FY98-01 funds provide additional graphics systems and workstations in support of the Part Task Trainer (PTT) program for aircrews. In house operation of these trainers allows for a more timely and cost effective response to training requirements than having private industry produce small numbers of low cost training devices. AIR EDUCATION AND TRAINING COMMAND (AETC) 7. ADVANCED TRAINING SYSTEM (ATS): No FY00/01 funding is requested. 8. AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) EDUCATION AND RESEARCH SYSTEM (EARS): FY98-01 funding procures computer systems, ranging from workstations to super mini-computers and large parallel processing systems which are networked together to provide educational computer support. It provides computing resources in support of all students, faculty, and staff applications except specialized laboratory processing and those acquisitions requiring very large computing power satisfied only by super-computer class machines. This program provides AFIT with state-of-the-art computer systems that are necessary to avoid AFIT's dependency on outside organizations for computer support.				
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Description (cont.): 9. 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, as well as preparing units to fully utilize new information technologies such as the Internet for the betterment of education and training. FY98-01 funds continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality. 10. 333rd TRAINING SQUADRON (TS) TECH REFRESH/EXPANSION: FY99-01 funding equips the 333 TS located at Keesler AFB, MS with hardware and associated software upgrades. This tech refresh/expansion program increases efficiency through the replacement of outdated equipment with enhanced connectivity and other improved capabilities to support the 333 TS training mission. 11. INTELLIGENCE TRAINING: FY01 funds will provide updated computerized systems in support of intelligence training associated with Operation LONESTAR and Rivet Joint. Operation LONESTAR is an exercise which culminates the intelligence training for several career fields at Goodfellow AFB, TX. Funds for LONESTAR will ensure computer equipment and modeling software are provided to render fusion of imagery and signals intelligence in simulated joint training exercises. Additionally, funds provide classroom computerized training of operators in support of Rivet Joint, an airborne mission. Specifically additional workstations, network connections, server/domain controllers, unique keyboards, printers, and larger storage devices to support voice processing training of crypto linguistics associated with Rivet Joint will be procured 12. OFFICER TRAINING SCHOOL (OTS) AUDIOVISUAL SYSTEM: No FY00/01 funding requested. 13. AIR UNIVERSITY (AU): FY00/01 funds will support the Air University Distributed Information System. This system helps to achieve education excellence by procuring information technology tools to access and manage information. FY 00/01 funds will establish information				
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Description (cont.): infrastructure (local network and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation of war games and to provide the information required to execute the education mission. The purchase of this enhanced hardware and associated software will improve the quality of professional military education at AU.				
14. AIR FORCE RECRUITER INFORMATION SYSTEM (AFRIS): AFRIS is the Air Force's modernization plan to replace the legacy system, Personnel Management Information System (PROMIS II). FY00-01 funds will purchase hardware and associated software necessary to automate and streamline the recruiting process providing for initial data entry for merging with the Air Force Personnel Data System (PDS). Without these funds, Air Force Recruiting Service will be unable to resolve applicant processing on a real-time basis. This will result in lost recruiting opportunities in an increasing competitive market.				
AIR FORCE COMMUNICATIONS AGENCY (AFCA)				
15. KEESLER COMPUTER NETWORK TRAINING: FY00-01 funds provide for the purchase of communications-computer equipment to meet the training requirements for specialized computer operators and tech controllers. Funding will replace the current outdated network and tech control training equipment, and will provide vital remote training capability. Failure to provide funds in this area will weaken the professional skill level of computer operators maintaining our networks which will threaten our ability to properly manage and protect critical information systems vital to our national security.				
AIR FORCE CENTER FOR QUALITY AND MANAGEMENT INNOVATION (AFCQMI)				
16. MANPOWER DATA SYSTEM (MDS): FY01 funds will begin the purchase of replacement/refreshment computer servers for MDS's client server architecture. MDS is the linchpin system that drives manpower changes for all force structure actions into the programming, budgeting and personnel systems (recruiting, assignments, training, and career field management). Without replacement/refreshment equipment,				
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Description (cont.): the Air Force would be unable to make accurate personnel assignments, recruiting projections, and training planning. AIR FORCE MATERIEL COMMAND (AFMC) 17. COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS): CEMS is an information storage and retrieval system essential to effectively manage over 400,000 critical parts in the Air Force's large fleet of 22,000 active turbine engines. CEMS is an invaluable tool used at base level to discover, diagnose, and prevent engine problems. FY98-01 funds provide for continued CEMS upgrades, miscellaneous ADP equipment in support of CEMS direct line reporting and interfaces to the Core Automated Maintenance System. 18. EMBEDDED (COMPUTER RESOURCES) SUPPORT IMPROVEMENT PROGRAM (ESIP): ESIP, through the use of specific hardware and software tools, improves the quality, productivity, and accessibility of weapon system software and minimizes an increasing backlog of weapon system software requirements. ESIP is currently divided into three primary domains or tasks: Advanced Research & Development at Air Force Research Lab (AFRL), Wright-Paterson AFB, OH; Software Technology Support at the Software Technology Support Center (STSC), Hill AFB, UT; and Software Readiness managed by the ESIP office at Hill AFB, UT. Standard configuration off-the-shelf hardware does not fulfill the requirements dictated by these functions. FY98-01 funds continues procurement of a wide range of special configurations of mini/micro computers and commercial/peculiar hardware devices essential for weapon system support. 19. F-I17A COMPUTER SUPPORT: No FY00/01 funding requested. 20. LOGISTICS DATA INTEGRATION SYSTEM (LOGDIS): LOGDIS provides users with a standard electronic mail system and with world-wide access to multiple dissimilar host computers via user friendly interfaces. There are currently 33,000 LOGDIS users with systems at HQ Air Force Materiel Command, five Air Logistics Centers (ALCs), Aerospace Maintenance and Regeneration Center (AMARC), Cataloging and Standardization Center (CASC), and dial-in access for HQ Pacific Air Forces and HQ United States Air Forces Europe. FY98-01 funding				
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Description (cont.): procures additional hardware required to take advantage of available client/server group ware technologies.				
<p>21. WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS): WSMIS provides an automated logistics decision support system to ensure that USAF weapon systems and combat forces meet their wartime taskings as well as peacetime operating requirements. FY98-99 funds procure computer hardware and associated peripheral equipment for the transition of the Readiness Spares Packages (RSP), Computation and Assessment System (RCAS), and the Supportability Analysis Visibility (SAV) portions of WSMIS modules to a common processing environment. FY00-01 funds will be used for hardware requirements to decentralize the WSMIS projects, satisfy new WSMIS decision support processes, support the merging of WSMIS into the overall GCSS-AF technical architecture.</p>				
<p>22. TAILORED INTELLIGENCE MATERIALS PRODUCTION PROGRAM: This procurement program provides aircrews worldwide with the necessary intelligence data for mission planning utilizing virtual intelligence to the maximum extent. FY98 funds continued procurement of automated equipment to include workstations, local area networks, software, peripherals, and laser printers to replace/update the current manpower intensive means of producing tailored intelligence for aircrew mission planning and execution. FY99 funds provide workstations, routers, servers, and fiber optic cables to upgrade an unclassified network for the 480th Intelligence Group (IG) at Langley AFB, VA. FY00-01 funding is necessary to continue the acquisition of equipment required to run the 20th Intelligence Squadron Air Force Intelligence Network (AFINTNET) backbone at Offutt AFB, NE. Collectively, the procurement of equipment for the 20th, 27th (Langley AFB), and 36th (Langley AFB) Intelligence Squadrons connectivity to the 480th IG AFINTNET at high data transfer rates ensures the viability of virtual production into the next century. Both projects are time phased over the next 6 years and are compliant with the 480th IG Operational and Systems Architectures.</p>				
<p>23. RDT&E SUPPORT COMPLEX (RSC) UPGRADES: FY99-01 funding continue RSC computer and hardware upgrade efforts to improve the consolidated telemetry, tracking, and commanding (TT&C) facility at Kirtland AFB, NM which supports the space test research and readiness control node, and interfaces with the Air Force Satellite Control Network (AFSCN) and other agencies in support of space system</p>				
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Description (cont.): testing. 24. EMBEDDED COMPUTER SYS INTEGRATED SUPPORT FACILITY (ISF): No FY00/01 funding requested. 25. SPARE PART S PRODUCTION AND REPROCUREMENT SYSTEM (SPARES): FY99 funds expands this information system at Hill AFB, UT to include additional users and additional data sources, thus enhancing the usefulness and accuracy of data that supports Air Force spare parts buys. No FY00/01 funding requested. AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI) 26. AFOSI COMPUTER NETWORK: No FY00/01 funding requested. AIR FORCE PERSONNEL CENTER (AFPC) 27. PERSONNEL DATA SYSTEM (PDS): PDS encompasses personnel data processing from all current Active, Guard, and Reserve units. FY00/01 funding upgrades PDS by replacing two tiers of the Legacy PDS systems, consolidating two mainframe computing environments into a client-server, relational database system incorporating state-of-the-art transaction processing and reporting database technology. 28. REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: FY98-01 funding continues to support the Regionalization of the Air Force's civilian personnel operations. Funds provide computer hardware (microcomputers, servers, printers, storage devices, networking support, associated peripheral devices, and associated software) to establish the center and outfit installation-level Civilian Personnel Flights (CPFs). The equipment will support electronic records management systems, Functional Process Improvements (FPIs), and electronic management of Official Personnel Folders (OPFs).				
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Description (cont.): US AIR FORCE ACADEMY (USAFA) 29. AIR FORCE ACADEMY COMPUTER SUPPORT: FY98-01 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. UNITED STATES AIR FORCES EUROPE (USAFE) 30. INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): FY98-01 funds continue the upgrade of ADPE 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. 31. WARRIOR PREPARATION CENTER (WPC): The WPC provides senior battle commanders and their staff the opportunity to train at the operational level of war using interactive computer simulations that replicate as closely as possible, the real-world environment. The WPC extends this training opportunity to our NATO allies. Additionally, WPC supports real-world operations such as Operation Joint Endeavor 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 world-wide exercises involving up to 9000 personnel. A large portion of WPC workstations, terminals and peripherals are nearing the end of their life cycle and are no longer economical to repair. FY98-01 funds continue procurement of simulation workstations and terminals, and peripheral equipment in order to meet the needs of USAFE. US SPACE COMMAND (USSPACECOM) 32. REFACILITATION: FY00/01 funds will provide for the purchase, engineering, integration, and installation of command, control,				
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Description (cont.): communications and computer systems supporting the new USSPACECOM Headquarters facility at Peterson AFB, CO. US STRATEGIC COMMAND (USSTRATCOM) 33. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE: The USSTRATCOM unclassified and classified Command Management Local Area Network (CM LAN) provides all HQ USSTRATCOM users a standard suite of software applications. FY98-01 funding provides infrastructure and component upgrades to (1) network file servers, mail servers, and printer servers; (2) stratus servers and Standard Query Language (SQL) servers; and (3) upgrade gateways, hubs, routers and other associated network peripherals. AIR FORCE WIDE (MULTIPLE COMMANDS) 34. BATTLELAB COLLABORATIVE NETWORK: FY99 funds provide for a collaborative network among the six Air Force battlelabs that allows shared modeling and simulation (M&S) information, collaborative computing, and other information and databases amongst themselves to create a Virtual Battlelab Environment (VBE). A VBE is essential in realizing full capability in information sharing and initiative collaboration between battlelabs. No FY00/01 funding is requested.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
11SPTW			\${17947}		\${11266}		\${29230}		\${13014}
1. HQS IT INVESTMENT	A		\$9,862		\$6,598		\$8,845		\$9,196
2. HQS MAINFRAME SYS SPT	A		\$3,359		\$3,339		\$3,252		\$3,300
3. SAF/FM FIRST	A		\$3,674		\$549				
4. NMCC	A		\$1,052		\$780		\$380		\$518
5. TC-AIMS II	A						\$16,753		
ACC			\${261}		\${241}		\${621}		\${635}
6. BASE OPERATIONS	A		\$261		\$241		\$621		\$635
AETC			\${3565}		\${4696}		\${8352}		\${15097}
7. ATS	A		\$2,468		\$697				
8. AFIT EARS	A		\$147		\$536		\$605		\$610
9. EDUCATION AND TRAINING TECH APPLICATIONS PRGM	A		\$950		\$1,487		\$1,903		\$1,935
10. 333TS TECH REFRESH/EXPANSION	A				\$407		\$576		\$437
11. INTELLIGENCE TRAINING	A								\$6,897
12. OTS AUDIOVISUAL SYSTEM	A				\$1,569				
13. AU	A						\$1,140		\$1,144
14. AFRIS	A						\$4,128		\$4,074
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PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFCA							\${7115}		\${4591}
15. KEESLER COMPUTER NETWORK TRAINING	A						\$7,115		\$4,591
AFCQMI									\${731}
16. MDS	A								\$731
AFMC			\${4157}		\${8879}		\${4429}		\${4565}
17. CEMS	A		\$125		\$305		\$161		\$165
18. ESIP	A		\$1,898		\$2,356		\$2,251		\$2,288
19. F-117A COMPUTER SUPPORT	A		\$234						
20. LOGDIS	A		\$342		\$851		\$740		\$780
21. WSMIS	A		\$406		\$998		\$486		\$493
22. TAILORED INTELLIGENCE MATERIALS PRODUCTION PRGM	A		\$410		\$541		\$600		\$625
23. RSC UPGRADES	A				\$175		\$191		\$214
24. EMBEDDED COMPUTER SYSTEM ISF	A		\$742		\$653				
25. SPARES	A				\$3,000				
AFOSI			\${94}		\${82}				
26. AFOSI COMPUTER NETWORK	A		\$94		\$82				
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PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFPC			\${8502}		\${3446}		\${8621}		\${8829}
27. PDS	A						\$985		\$1,000
28. REGIONALIZATION OF CIVILIAN PERSONNEL SPT	A		\$8,502		\$3,446		\$7,636		\$7,829
USAFA			\${1032}		\${1416}		\${3330}		\${2669}
29. USAFA COMPUTER SPT	A		\$1,032		\$1,416		\$3,330		\$2,669
USAFE			\${847}		\${761}		\${1439}		\${1572}
30. INTELLIGENCE ADPE	A		\$319		\$293		\$261		\$340
31. WPC	A		\$528		\$468		\$1,178		\$1,232
USSPACECOM							\${7391}		\${13400}
32. REFACILITATION	A						\$7,391		\$13,400
USSTRATCOM			\${560}		\${516}		\${645}		\${590}
33. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE	A		\$560		\$516		\$645		\$590
AF-WIDE (MULTIPLE COMMANDS)					\${3000}				
34. BATTLELAB COLLABORATIVE NETWORK	A				\$3,000				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
11SPTW (1)										
1. HQS IT INVESTMENT										
FY98			11WING	C/FP	MULTIPLE(2)	MAR 98	JUN 98			
FY99			11WING	C/FP	MULTIPLE(2)	MAR 99	JUN 99	Y		
FY00			11WING	C/FP	MULTIPLE(2)	MAR 00	JUN 00	Y		
FY01			11WING	C/FP	MULTIPLE(2)	MAR 01	JUN 01	Y		
2. HQS MAINFRAME										
FY98			11WING	C/FP	MULTIPLE(2)	APR 98	AUG 98			
FY99			11WING	C/FP	MULTIPLE(2)	MAR 99	JUL 99	Y		
FY00			11WING	C/FP	MULTIPLE(2)	MAR 00	JUL 00	Y		
FY01			11WING	C/FP	MULTIPLE(2)	MAR 01	JUL 01	Y		
3. SAF/FM FIRST										
FY98			11WING	OPT/FP	I-CASE, ARLINGTON, VA	FEB 98	AUG 98			
FY99			11WING	OPT/FP	I-CASE, ARLINGTON, VA	FEB 99	JUL 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
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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	
4. NMCC										
FY98			11WING	C/FP	MULTIPLE(2)	JAN 98	MAY 98			
FY99			11WING	C/FP	MULTIPLE(2)	FEB 99	JUN 99			
FY00			11WING	C/FP	MULTIPLE(2)	JAN 00	MAY 00	Y		
FY01			11WING	C/FP	MULTIPLE(2)	JAN 01	MAY 01	Y		
5. TC-AIMS II										
FY00			11WING	C/FP	MULTIPLE(2)	JAN 00	MAY 00	Y		
ACC (1)										
6. BASE OPERATIONS										
FY98			HQ ACC	C/FP	MULTIPLE(2)	MAY 98	AUG 98			
FY99			HQ ACC	C/FP	MULTIPLE(2)	MAY 99	AUG 99	Y		
FY00			HQ ACC	C/FP	MULTIPLE(2)	MAY 00	AUG 00	Y		
FY01			HQ ACC	C/FP	MULTIPLE(2)	MAY 01	AUG 01	Y		
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
AETC (1)										
7. ATS										
FY98			HQ AETC	C/FP	MULTIPLE(2)	MAR 98	MAY 98			
FY99			HQ AETC	C/FP	MULTIPLE(2)	MAR 99	MAY 99	Y		
8. AFIT EDUCATION AND RESEARCH SYSTEM										
FY98			AFMC/SMC	C/FP	MULTIPLE(2)	FEB 98	APR 98			
FY99			AFMC/SMC	C/FP	MULTIPLE(2)	FEB 99	APR 99			
FY00			AFMC/SMC	C/FP	MULTIPLE(2)	FEB 00	APR 00	Y		
FY01			AFMC/SMC	C/FP	MULTIPLE(2)	FEB 01	APR 01	Y		
9. ED AND TRNG TECH APPLICATIONS PRGM										
FY98			HQ AETC	C/FP	MULTIPLE(2)	JAN 98	MAR 98			
FY99			HQ AETC	C/FP	MULTIPLE(2)	FEB 99	APR 99			
FY00			HQ AETC	C/FP	MULTIPLE(2)	JAN 00	MAR 00	Y		
FY01			HQ AETC	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
10. 333TS TRNG TECH REFRESH/EXPANSION										
FY99			HQ AETC	C/FP	MULTIPLE(2)	FEB 99	MAY 99			
FY00			HQ AETC	C/FP	MULTIPLE(2)	FEB 00	MAY 00	Y		
FY01			HQ AETC	C/FP	MULTIPLE(2)	FEB 01	MAY 01	Y		
11. INTELLIGENCE TRNG										
FY01			HQ AETC	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
12. OTS AUDIOVISUAL SYS										
FY99			HQ AETC	C/FP	MULTIPLE(2)	MAR 99	JUN 99	Y		
13. AU										
FY00			HQ AETC	C/FP	MULTIPLE(2)	JAN 00	MAR 00	Y		
FY01			HQ AETC	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
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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	
14. AFRISS										
FY00			HQ AETC	C/FP	MULTIPLE(2)	JAN 00	MAR 00	Y		
FY01			HQ AETC	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
AFCA (1)										
15. KEESLER COMPUTER NETWORK TRAINING										
FY00			HQ AFCA	C/FP	MULTIPLE(2)	JAN 00	MAR 00	Y		
FY01			HQ AFCA	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
AFCQMI										
16. MDS										
FY01			11WING	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
AFMC (1)										
17. CEMS										
FY98			AFMC/SA-ALC	DO/FP	TEXAS INSTRUMENTS, DALLAS, TX	APR 98	JUN 98			
FY99			AFMC/SA-ALC	DO/FP	DELL COMPUTERS, AUSTIN, TX	MAR 99	MAY 99	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
FY00			AFMC/SA-ALC	DO/FP	DELL COMPUTERS, AUSTIN, TX	MAR 00	MAY 00	Y		
FY01			AFMC/OC-ALC	DO/FP	DELL COMPUTERS, AUSTIN, TX	MAR 01	MAY 01	Y		
18. ESIP										
FY98			AFMC/ASC	DO/CPFF	MULTIPLE(5)	MAR 98	AUG 98			
FY99			AFMC/ASC	DO/CPFF	MULTIPLE(5)	MAR 99	AUG 99	Y		
FY00			AFMC/ASC	DO/CPFF	MULTIPLE(5)	MAR 00	AUG 00	Y		
FY01			AFMC/ASC	DO/CPFF	MULTIPLE(5)	MAR 01	AUG 01	Y		
19. F117A COMPUTER SPT										
FY98			AFMC/SM-ALC	C/FFP	LOCKHEED, PALMDALE, CA	MAY 98	AUG 98			
20. LOGDIS										
FY98			AFMC/ASC	OPT/IDIQ	BATTELLE, COLUMBUS, OH(3)	APR 98	JUL 98			
FY99			AFMC/ASC	OPT/IDIQ	BATTELLE, COLUMBUS, OH(3)	FEB 99	APR 99			
FY00			AFMC/ASC	C/FFP	UNKNOWN	FEB 00	APR 00	Y		
FY01			AFMC/ASC	C/FFP	UNKNOWN	FEB 01	APR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
21. WSMIS										
FY98			AFMC/ASC	MIPR/FFP	DISA/DMC, DAYTON WPAFB, OH (10)	JUN 98	AUG 98			
FY99			AFMC/ASC	MIPR/FFP	DISA/DMC, DAYTON WPAFB, OH (10)	FEB 99	APR 99			
FY00			AFMC/ASC	MIPR/FFP	DISA/DMC, DAYTON WPAFB, OH (10)	FEB 00	APR 00	Y		
FY01			AFMC/ASC	MIPR/FFP	DISA/DMC, DAYTON WPAFB, OH (10)	FEB 01	APR 01	Y		
22. TAILORED INTELLIGENCE MATERIALS PRODUCTION PROG										
FY98			AFMC/OO-ALC	C/FP	GTE/HAMPTON, VA	MAR 98	MAY 98			
FY99			AFMC/OO-ALC	C/FP	UNKNOWN	MAR 99	MAY 99	Y		
FY00			AFMC/OO-ALC	C/FP	UNKNOWN	FEB 00	APR 00	Y		
FY01			AFMC/OO-ALC	C/FP	UNKNOWN	FEB 01	APR 01	Y		
23. RSC UPGRADES										
FY99			AFMC/SMC	OPT/CPAF	LMWDL, ALBUQUERQUE, NM (4)	FEB 99	APR 99			
FY00			AFMC/SMC	OPT/CPAF	LMWDL, ALBUQUERQUE, NM (4)	JAN 00	MAR 00	Y		
FY01			AFMC/SMC	OPT/CPAF	LMWDL, ALBUQUERQUE, NM (4)	JAN 01	MAR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
24. EMBEDDED COMPUTER SYSTEM ISF										
FY98			AFMC/SA-ALC	DO/FP	MICRON INC, NAMPA, IN	MAR 98	MAY 98			
FY99			AFMC/SA-ALC	DO/FP	MICRON INC, NAMPA, IN	MAR 99	MAY 99	Y		
25. SPARES										
FY99			AFMC/OC-ALC	DO/FP	GENERAL ATOMICS, SAN DIEGO, CA (8)	FEB 99	APR 99			
AFOSI (1)										
26. AFOSI COMPUTER NETWORK										
FY 98			11WING	C/FP	TECH COMM CORP, CONCORD, MA	MAY 98	JUN 98			
FY 99			11WING	C/FP	TECH COMM CORP, CONCORD, MA	FEB 99	APR 99			
AFPC (1)										
27. PDS										
FY00			HQ AFPC	OPT/FP	MULTIPLE(6)	NOV 99	APR 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
FY01			HQ AFPC	OPT/FP	MULTIPLE(6)	NOV 00	APR 01	Y		
28. REGIONALIZATION OF CIVILIAN PERSONNEL SPT										
FY98			HQ AFPC	OPT/FP	MULTIPLE(6)	NOV 97	JAN 98			
FY99			HQ AFPC	OPT/FP	MULTIPLE(6)	FEB 99	APR 99			
FY00			HQ AFPC	OPT/FP	MULTIPLE(6)	NOV 99	JAN 00	Y		
FY01			HQ AFPC	OPT/FP	MULTIPLE(6)	NOV 00	JAN 01	Y		
USAFA										
29. USAFA COMPUTER SPT										
FY98			HQ USAFA	C/FP	MULTIPLE(2)	DEC 97	JAN 98			
FY99			HQ USAFA	C/FP	MULTIPLE(2)	MAR 99	MAY 99	Y		
FY00			HQ USAFA	C/FP	MULTIPLE(2)	FEB 00	APR 00	Y		
FY01			HQ USAFA	C/FP	MULTIPLE(2)	FEB 01	APR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
USAFE										
30. INTELLIGENCE ADPE										
FY98			HQ USAFE	C/FP	MULTIPLE(2)	FEB 98	JUN 98			
FY99			HQ USAFE	C/FP	MULTIPLE(2)	FEB 99	MAY 99			
FY00			HQ USAFE	C/FP	MULTIPLE(2)	FEB 00	MAY 00	Y		
FY01			HQ USAFE	C/FP	MULTIPLE(2)	FEB 01	MAY 01	Y		
31. WPC										
FY98			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS, GA (7)	FEB 98	MAY 98			
FY99			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS, GA (7)	FEB 99	MAY 99			
FY00			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS, GA (7)	FEB 00	MAY 00	Y		
FY01			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS, GA (7)	FEB 01	MAY 01	Y		
USSPACECOM										
32. REFACILITATION										
FY00			HQ AFSPC	C/FP	MULTIPLE(2)	JAN 00	MAR 00	Y		
FY01			HQ AFSPC	C/FP	MULTIPLE(2)	JAN 01	MAR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
USSTRATCOM										
33. NETWORK MGMT LAN NETWORK INFRASTRUCTURE										
FY 98			USSTRATCOM	C/FP	MULTIPLE(2)	FEB 98	FEB 98			
FY 99			USSTRATCOM	C/FP	MULTIPLE(2)	FEB 99	FEB 99			
FY 00			USSTRATCOM	C/FP	MULTIPLE(2)	FEB 00	FEB 00	Y		
FY 01			USSTRATCOM	C/FP	MULTIPLE(2)	FEB 01	FEB 01	Y		
AF-WIDE (MULTI CMDS)										
34. BATTLELAB COLLABORATIVE NETWORK										
FY99			11WING	OPT/FP	MULTIPLE(9)	FEB 99	FEB 99			
REMARKS: 1. Quantities and costs vary for each program based on location and configuration. 2. 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 & Applications (SRA), Arlington, VA; and Logicon Tech, San Pedro, CA. Award/delivery dates represent the date of first award and delivery.										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999				
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING 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	
3. Option to 1993 firm fixed price contract awarded to Battelle Memorial Institute, Columbus, OH.										
4. Option to 1996 cost plus award fee contract (CPAF) awarded to Lockheed Martin Western Development Laboratory (LMWDL), Albuquerque, NM.										
5. Delivery order options to FY96 cost plus fixed fee contracts awarded in Jun 1996 to Scientific Applications Corp (SAIC), San Diego, CA and in Sep 1996 to TRW, Dayton, OH.										
6. Options to multiple standard contracts including DT IV, Ulana, Super-Mini, SMSCRC.										
7. Option to GTE contract awarded in Feb 97.										
8. Time and materials contract.										
9. Options to multiple standard contracts with Autometric, Inc, Springfield, VA; and Concurrent Technology Corp, Johnstown, PA.										
10. AFMC contracts through DISA/DMC to GSA, Washington, DC.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$6,995	\$4,471	\$5,722	\$5,698	\$5,760	\$5,774	\$11,902	\$12,197
<p>Description:</p> <p>The Air Force Global Command & Control System (AFGCCS) program provides the common Air Force infrastructure necessary to pass Air Force command and control (C2) data among commands, their components, and the joint Global Command and Control System (GCCS). This program procures GCCS networking components, servers, workstations, and associated peripherals; and integrates GCCS at Air Force supported Commander In Chiefs (CINCs), Headquarters United States Air Force (HQ USAF), Major Command (MAJCOM) headquarters, Numbered Air Forces, Wings, Air National Guard (ANG), Air Force Reserve (AFR) and remote sites to establish initial and full operational capability. These efforts provide a flexible open-system, distributed C2 architecture necessary to support the client/server-based DoD GCCS.</p> <p>1. AIR FORCE SYSTEMS NETWORKING (AFSN): AFSN was previously called the Air Force Command and Control Network (AFC2N). AFSN prepares a site for GCCS operations by installing and upgrading a site's classified C2 network through extensive use of commercial-off-the-shelf (COTS) technology that adheres to the Air Force command, control, communications and computer (AFC4) building codes and standards. The classified communications infrastructure of the MAJCOM C2 facilities (i.e. command posts) will be modernized by installing state-of-the-art networking components for improved interoperability, data throughput, and system security. Each site will comply with current Air Force and DoD network initiatives by having a standardized interface among Air Force base level classified C2 networks, Air Force base level network control centers, and the joint Deployable Information Systems Architecture (DISA) Secret Internet Protocol Network (SIPRNET). FY98 funds procured the SIPRNET connection of 155 USAF Active Duty and Air National Guard units. FY99-01 funds will be used to install SIPRNET connections at 50 units each year. Equipment purchased includes COTS routers, router cards, cryptologic equipment, modems, cabinets, containers, hubs to connect terminals, and installation supplies.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM		
Description (cont.): 2. AF GLOBAL COMMAND AND CONTROL SYSTEM (AFGCCS) MODERNIZATION: This funding procures and installs AFGCCS at required AF supported CINCS, Air Force, ANG and AFR sites. It also upgrades or replaces C2 communications and computer systems to modernize logistically unsupportable MAJCOM C2 systems and capitalize on AFSN and AFGCCS improvements. - FY98 funded initial network infrastructure for 93 new sites; continues fielding GCCS hardware at MAJCOM, ANG and AFR locations; expands the GCCS architecture to include new functional users on each base, and provides technical refreshment of fielded hardware. - F99 funds initial network infrastructure for multiple new sites (approximately 80), continues to field GCCS hardware at MAJCOM and ANG locations; expands the GCCS architecture to include new functional users on each base and initial technical refreshment of fielded hardware. - FY00/01 will fund initial network infrastructure for multiple new sites, continues to field GCCS hardware at MAJCOM and ANG locations, expands the GCCS architecture to include new functional users on each base and initial technical refreshment of fielded hardware.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
AF GCCS PROGRAM			\${6995}		\${4471}		\${5722}		\${5698}	
1. AFSN	A		\$3,178		\$1,753		\$1,124		\$562	
2. AFGCCS MODERNIZATION	A		\$3,817		\$2,718		\$4,598		\$5,136	
Totals:			\$6,995		\$4,471		\$5,722		\$5,698	
Remarks:										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. AFSN (1)										
FY98			AFMC/ESC	OPT/FP(2)	MULTIPLE	OCT 97	DEC 97			
FY99			AFMC/ESC	OPT/FP(2)	MULTIPLE	OCT 98	DEC 98			
FY00			AFMC/ESC	OPT/FP(2)	MULTIPLE	OCT 99	DEC 99	Y		
FY01			AFMC/ESC	OPT/FP(2)	MULTIPLE	OCT 00	DEC 00	Y		
2. AFGCCS MODERNIZATION (1)										
FY98			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY, MO	FEB 98	MAY 98			
FY99			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY, MO	JAN 99	APR 99			
FY00			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY, MO	JAN 00	APR 00	Y		
FY01			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY, MO	JAN 01	APR 01	Y		
REMARKS: 1. Quantity and unit costs vary due to different types/configurations of equipment being procured. 2. Option to Ulana II contract. Contractors are TRW, Carson, CA; EDS, Herndon, VA; World Wide Technology, St. Louis, MO; Mykotronix, Torrance, CA. Dates represent first award and delivery, respectively.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$8,899	\$7,824	\$10,366	\$8,579	\$8,930	\$9,258	\$9,447	\$9,654
<p>Description:</p> <p>Air Mobility Command (AMC) supports national power projection force deployments and time sensitive logistics requirements. To perform this mission, AMC requires an effective mobility command and control (C2) system that provides for efficient centralized management of the entire US strategic mobility fleet. Base command, control, communications and computer (C4) infrastructure will provide the fiber optical backbone for base-wide multi-media connectivity to accomplish AMC's tasks.</p> <p>1. GLOBAL C2 ARCHITECTURE: FY98-01 funds continue AMC's integrated upgrade of C2 systems.</p> <p style="margin-left: 40px;">A. OBJECTIVE WING COMMAND POST (OWCP): OWCP funding provides for standardization and upgrades to all AMC wing-level C4 systems and enroute C2 center functions. Currently, a typical AMC base has several round-the-clock C2 center functions, each occupying a different facility on the base, (e.g., aerial port terminal operations, maintenance control, mobility operations, airfield operations, etc.). At each of the 24 mobility bases, the OWCP will standardize and upgrade C4 systems to facilitate the consolidation of C2 functions into one central C2 facility. FY98-01 funding will complete upgrades to 8 OWCPs.</p> <p style="margin-left: 40px;">B. LOCAL AREA NETWORK (LAN): FY98-01 funding continues procurement of network equipment at each AMC base/unit to provide command-wide intra-building networking infrastructure in support of Air Force systems such as the Defense Message System (DMS), Combat Information Transport System (CITS), Base Level Systems Modernization, and other AMC systems such as Command and Control Information Processing System (C2IPS), OWCP, etc.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL		
Description (cont.): C. ADVANCED COMPUTER FLIGHT PLAN (ACFP): The ACFP is a user-friendly, menu-driven, computer-generated flight planning system. It is a C2 program used to generate wind optimized flight plans for all MAJCOMs. FY98/99 funding upgrades the hardware platform and database to ensure compatibility with other AMC managed C2 programs. Funds procure hardware with associated software and warranties. FY00/01 funding will continue hardware platform upgrades to increase processing speeds to meet increases in user loads. D. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): The DSATCOM program is the primary acquisition support vehicle for deployed AMC Tanker Airlift Control Element (TALCE) and Mission Support Team (MST) C2 operations. The program consists of various procurement efforts to enhance initial and intra-theater deployed voice and data communications connectivity. Resources directly support C2 of, and in-transit visibility over, deployed and en route personnel, aircraft, and cargo. FY 98 funds procured new lightweight, high data rate, super high frequency (SHF) SATCOM terminals, associated modem equipment, and Deployable, Rapidly Assembled Shelter (DRASH) systems. Additionally, FY98 funds were also used to integrate new ultra high frequency (UHF) demand assigned multiple access (DAMA) SATCOM radios into 28 AMC Mobile Air Reporting and Communications (MARC) shelter systems. FY99 funds will continue the procurement of Tri-band SHF SATCOM and DRASH systems. FY00 funds will complete procurement of SHF SATCOM and DRASH shelters. FY00 funds integrate the SHF SATCOM systems into MARC shelters, and upgrade existing MARC LAN systems. FY01 funds will procure additional spares kits for SHF SATCOM systems, four DRASH shelter systems, and handheld satellite systems. Additionally, FY01 funds will also procure and integrate new audio and data switching equipment into the TALCE MARC shelters. 2. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) MOBILITY COMMAND & CONTROL A. AIRFIELD SUPPORT EQUIPMENT: FY98 funding concluded the procurement of runway support equipment, weather equipment, radios, site survey equipment and personal equipment for Combat Control Teams (CCTs) to ensure successful accomplishment of the ground-to-air interface across the conflict and air mobility mission spectrum. No FY99-01 funding requested.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL		
Description (cont.): B. TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM: The TAC C2 Program provides funds for the purchase of new and enhanced communications systems and equipment essential for Special Tactics Teams (STT) (including pararescue) to provide C2 to the furthest reaching elements of AFSOC's C2 structure. STTs input intelligence, weather and assault zone assessments into AFSOC's C2 network and receive/relay mission taskings. As the forward site C2 and air traffic control element, STTs provide the DoD with the flexibility to conduct airdrops, assault landings and use austere airfields. FY00/01 funds will purchase various devices to support STT missions: (1) UHF SATCOM radios which meet Joint Chiefs of Staff mandated narrowband and DAMA standards; (2) new high frequency portable radios with automatic link establishment to allow communications within the AFSOC's C2 network in the automatic mode; and (3) Multiband, Multimode Beacons (MMB), which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
GLOBAL C2 ARCHITECTURE			\${7283}		\${7824}		\${10212}		\${8293}
A. OWCP	A		\$774		\$831		\$1,949		\$1,308
B. LAN	A		\$3,604		\$3,200		\$4,243		\$3,829
C. ACFP	A		\$548		\$1,253		\$985		\$394
D. DSATCOM	A		\$2,357		\$2,540		\$3,035		\$2,762
AFSOC MOBILITY CMD & CONTROL			\${1616}				\${154}		\${286}
A. AIRFIELD SPT EQ	A		\$1,616						
B. TAC C2 PROGRAM	A						\$154		\$286
Totals:			\$8,899		\$7,824		\$10,366		\$8,579
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/ELECTRONICS & 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				
1. GLOBAL C2 ARCHITECTURE (1)													
A. OWCP													
FY98			HQ AMC	OPT(2)/FFP	SIEMENS ROLM, VIENNA, VA	FEB 98	MAR 98						
FY99			HQ AMC	OPT(2)/FFP	SIEMENS ROLM, VIENNA, VA	FEB 99	MAR 99						
FY00			HQ AMC	OPT(2)/FFP	SIEMENS ROLM, VIENNA, VA	FEB 00	MAR 00	Y					
FY01			HQ AMC	OPT(2)/FFP	SIEMENS ROLM, VIENNA, VA	FEB 01	MAR 01	Y					
B. LAN													
FY98			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 97	DEC 97						
FY99			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 98	DEC 98						
FY00			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 99	DEC 99	Y					
FY01			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 00	DEC 00	Y					
C. ACFP													
FY98			HQ AMC	C/CPAF	INTEGRATED TECHNOLOGY SOLUTIONS, INC., HAMPTON, VA	OCT 97	JAN 98						
FY99			HQ AMC	SS/FFP	COMPAQ, ST LOUIS, MO	APR 99	JUL 99	Y					
FY00			HQ AMC	SS/FFP	COMPAQ, ST LOUIS, MO	JAN 00	MAR 00	Y					
FY01			HQ AMC	SS/FFP	COMPAQ, ST LOUIS, MO	OCT 00	JAN 01	Y					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">P-1 ITEM NO: 53</td> <td style="width: 25%; text-align: center;">PAGE NO: 77</td> <td style="width: 25%; text-align: right;">Page 1 of 2</td> </tr> </table>											P-1 ITEM NO: 53	PAGE NO: 77	Page 1 of 2
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
D. DSATCOM										
FY98			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 98	JUN 98			
FY99			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 99	JUN 99			
FY00			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 00	JUN 00	Y		
FY01			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 01	JUN 01	Y		
2. AFSOC MOBILITY COMMAND AND CONTROL (1)										
A. AIRFIELD SUPT EQ										
FY98			HQ AFSOC	C/FFP	MULTIPLE(5)	JAN 98	MAR 98			
B. TAC C2 PROGRAM										
FY00			HQ AFSOC	OPT(4)/FP	MULTIPLE(5)	JAN 00	MAR 00	Y		
FY01			HQ AFSOC	OPT(4)/FP	MULTIPLE(5)	JAN 01	MAR 01	Y		
REMARKS: 1. Quantities and unit costs vary due to different site configurations/computer items being procured. 2. Option to prior year contract awarded Feb 96, with Siemens Rolm, Vienna, VA. 3. Utilizes AFCAC 308 and Desktop IV & V contracts. Multiple vendors resulting in multiple award and delivery dates. 4. Option to existing AFSOC and US Army contracts. 5. Multiple contractors include Lockheed Martin, ATI, TAC-TEC, Naval Warfare Center, GSA, etc.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$14,239	\$26,241	\$32,583	\$33,414	\$27,355	\$27,976	\$27,677	\$28,235
<p>Description:</p> <p>This program procures and installs physical security equipment to protect aircraft, missiles, nuclear weapons, and other critical war fighting resources under the control of Air Force major commands. The program objectives are to replace older generation intrusion detection systems at fixed sites, provide relocatable sensors for use on Air Force flightlines, respond to transient security threats, and provide tactical sensors and communications equipment for air base defense forces.</p> <p>1. AIR BASE DEFENSE SENSORS: FY98-01 funds the Air Force tactical sensor program which will support Air Base Defense requirements enabling security forces to detect intrusions and assess targets. The total Air Force requirement is for 826 Tactical Automated Security Systems (TASS) kits to support two major theater wars and provide robust force protection capabilities world-wide. TASS kits are procured to be tailored into Squad, Flight, and Headquarters kits, each containing varying numbers of active, passive, telescope infrared, breakwire sensors and communications modules and associated support equipment. FY98-01 funds continue the procurement of tailored TASS kits.</p> <p>2. AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical air launch cruise missile (ALCM) security command and control subsystems that are no longer supportable. FY98-01 funding provides for equipment integration and upgrades for the intermediate maintenance facilities (IMFs) and intermediate munitions storage (IMS) facilities at Barksdale AFB LA, Minot AFB ND, and Whiteman AFB MO.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM		
Description (cont.): 3. ANTI-TERRORISM: Anti-terrorism funds continue to procure intrusion detection and assessment equipment to protect overseas resources that may be soft targets for terrorist attacks. Equipment includes portable tactical sensors, thermal imagers, fiber optic sensors, and other state-of-the-art detection and assessment equipment. Funds are used synergistically with other Air Force programs to achieve adequate levels of protection. FY98/99 funds procure portable security equipment to be used by Force Protection Expeditionary Forces to respond to changing and evolving threat scenarios world-wide. FY00/01 funds will procure equipment in support of anti-terrorist intelligence activities by the Air Force Office of Special Investigations and asset hardening efforts performed by United States Air Forces Europe (USAFE). 4. BASE PHYSICAL SECURITY SYSTEMS: The Air Force has a continuing need to upgrade and modernize existing physical security systems presently installed at fixed sites worldwide. These systems must be replaced every eight years, on the average, depending on environmental conditions, type of sensor, and availability of spare parts. a. FLIGHTLINE SECURITY: Flightline security equipment reduces significant risk on Air Force flightlines. Air Force downsizing and aircraft technology advances have resulted in a condition where individual airframes now represent an extremely valuable national power projection capability. However, the security afforded most Air Force aircraft in terms of equipment or manpower has actually declined. In FY96, the Air Force began procurement of flightline security assessment equipment as part of a new TASS contract. TASS includes a variety of sensors to meet a broad range of intrusion detection needs (perimeter, tactical, flightline). Flightline sensors include the use of microwave technology with tunable frequencies for world-wide deployment. FY98 funds provided upgrades to five Pacific Air Force (PACAF) flightline security systems. FY99 thru 01 begins an aggressive enhancement of high value flightline security for USAFE and a project with special emphasis on Air Mobility Command's "fly-away" assets. These efforts will be accomplished through the deployment of TASS flight and boundary kits installed in a semi-permanent configuration. b. FIXED-SITE SECURITY: Fixed-Site Security projects support long-term physical security requirements at permanent Air Force installations world-wide. Permanently-based aircraft and missiles, nuclear weapons in depot storage, satellite control facilities, and other key				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM		
Description (cont.): Air Force assets require permanently installed intrusion detection systems (both interior and exterior) and access control systems. FY98 funds procured a video storage system at Whiteman AFB MO to correct an assessment deficiency. FY98 also funded the upgrade of both the intrusion detection and the commencement of the installation of an Advanced Entry Control System (AECS) at Minot AFB ND. FY99-01 funds will procure and install Video Storage Systems (VSS) at Weapons Storage Area (WSA) locations within CONUS which have identified the same deficiency. Additionally, FY99 funds will upgrade the intrusion detection and entry control systems at the Kirtland Underground Munitions Storage Complex (KUMSC) at Kirtland AFB NM. FY00/01 funds the replacement and upgrade of the intrusion detection systems (IDS) and annunciation systems at Nellis AFB, NV. 5. MINUTEMAN SQUADRON SECURITY: These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical Minuteman warhead storage security command and control subsystems that are no longer supportable. FY98-01 funds continue purchase and upgrade of equipment for missile security missions at Malmstrom AFB MT, Minot AFB ND as well as selected AF Space Command locations.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. AIR BASE DEFENSE SENSORS	A	93	\$3,683	83	\$3,533	140	\$3,525	130	\$3,478	
2. ALCM SECURITY SYS	A		\$739		\$1,262		\$1,304		\$1,324	
3. ANTI-TERRORISM	A		\$584		\$872		\$2,056		\$3,106	
4. BASE PHYSICAL SECURITY SYSTEM			\${9013}		\${20058}		\${25165}		\${24966}	
A. FLIGHTLINE SECURITY	A		\$3,827		\$13,877		\$22,438		\$21,206	
B. FIXED SITE SECURITY	A		\$5,186		\$6,181		\$2,727		\$3,760	
5. MIUTEMAN SQDN SECURITY	A		\$220		\$516		\$533		\$540	
Totals:			\$14,239		\$26,241		\$32,583		\$33,414	
Remarks:										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. AIR BASE DEFENSE SENSORS (2)										
FY98	93		AFMC/ESC	C/FFP	MULTIPLE (3)	OCT 97	JUL 98			
FY99	83		AFMC/ESC	DO/FFP	MULTIPLE (3)	NOV 98	MAR 99			
FY00	140		AFMC/ESC	DO/FFP	MULTIPLE (3)	NOV 99	MAR 00	Y		
FY01	130		AFMC/ESC	DO/FFP	MULTIPLE (3)	NOV 00	MAR 01	Y		
2. ALCM SECURITY SYSTEM (1) (2)										
FY98			AFMC/ESC	C/FFP	BOOZ, ALLEN, HAMILTON, FT. WORTH, TX	JUN 98	SEP 98			
FY99			AFMC/ESC	MIPR/DO/FFP	GSA/BOOZ, ALLEN, HAMILTON, FT. WORTH, TX	FEB 99	AUG 99			
FY00			AFMC/ESC	MIPR/DO/FFP	MULTIPLE(4)	FEB 00	AUG 00	Y		
FY01			AFMC/ESC	MIPR/DO/FFP	MULTIPLE(4)	FEB 01	AUG 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
B. FIXED SITE SEC										
FY98			AFMC/ESC	OPT(5)/FP	SYS PLANNING CORP, ARLINGTON, VA	MAR 98	AUG 98			
FY99			AFMC/ESC	OPT(5)/FP	SYS PLANNING CORP, ARLINGTON, VA	JAN 99	NOV 99			
FY00			AFMC/ESC	OPT(5)/FP	SYS PLANNING CORP, ARLINGTON, VA	JAN 00	JUL 00	Y		
FY01			AFMC/ESC	OPT(5)/FP	SYS PLANNING CORP, ARLINGTON, VA	JAN 01	JUL 01	Y		
5. MINUTEMAN SQDN SEC (1) (2)										
FY98			AFMC/ESC	C/FFP	BENECO, INDIANHEAD, MD	MAY 98	SEP 98			
FY99			AFMC/ESC	DO/FFP	BOOZ, ALLEN, HAMILTON, FT. WORTH, TX	MAR 99	SEP 99	Y		
FY00			AFMC/ESC	DO/FFP	BOOZ, ALLEN, HAMILTON, FT. WORTH, TX	DEC 99	MAY 00	Y		
FY01			AFMC/ESC	DO/FFP	BOOZ, ALLEN, HAMILTON, FT. WORTH, TX	DEC 00	MAY 01	Y		
REMARKS: 1. Various types and quantities of physical security equipment are site dependent. Systems are composed of multiple sensors and assessment equipment. 2. Unit costs vary per equipment configuration at each location.. 3. In Oct 97, AFMC/ESC awarded three (3) five-year delivery order contracts (one large, two small business) to TRW, Carson CA; EER Systems,										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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
<p>Seabrook MD; and LAU Technologies, Littleton MA; for the Air Force follow-on TASS security systems program.</p> <p>4. Multiple GSA contractors including: Booz Allen, Ft Worth TX and Beneco, Indian Head MD. Award/delivery dates represent the date of first award/delivery.</p> <p>5. Option to a FY93 delivery order contract with Systems Planning Corp, Arlington, VA. Delivery order contract was extended through Feb 00.</p>									
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$12,615	\$22,201	\$17,503	\$30,259	\$27,949	\$27,188	\$34,110	\$32,659
<p>Description:</p> <p>This program procures the electronic telecommunications and instrumentation equipment/systems for training ranges worldwide. These systems provide real-time monitoring and control of aircrew air-to-air, air-to-ground, and electronic warfare training along with the ability to record events for crew debriefing and analysis. This program also procures weapons scoring systems and advanced threat simulator systems to satisfy Electronic Warfare (EW) training capability requirements, aircraft/pod interfaces, software interoperability among services ranges and the encryption of range/aircraft data links. The FY98-01 funding continues the upgrade of this critical training equipment/systems. With the ongoing technological advancements, emphasis in FY00/01 is placed on acquiring increased Global Positioning System (GPS) capability while operating in a rangeless, joint environment under advanced radar threat. In particular, the Joint Tactical Combat Training, the Advanced Threats Upgrades and Air Combat Training Systems Upgrades programs are involved with these upgrades and advancements, hence there are considerable increases in funding for these programs.</p> <p>1. AIR COMBAT TRAINING SYSTEMS</p> <p style="margin-left: 40px;">a. ALASKAN AIR COMBAT TRAINING SYSTEM (ACTS): FY98/99 funding procures various electronic systems and testing equipment which provides increased training capabilities at the Yukon Measurement and Debriefing System (YMDS) at Eielson AFB, Alaska and the Alaska Air Combat Maneuvering Instrumentation (ACMI) system at Elemendorf AFB, Alaska. No FY00/01 funding is requested.</p> <p style="margin-left: 40px;">b. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS): JAWSS program encompasses the FY98-01 procurement of three</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMBAT TRAINING RANGES		
Description (cont.): Navy-developed scoring systems: Weapon Impact Scoring System (WISS), Large Scale Target Sensor System (LSTSS), and Laser Evaluator System - Mobile (LES-M) and associated equipment. These systems will upgrade the weapon and laser spot scoring on Air Force and Air National Guard bases. The WISS is a state-of-the-art, electro-optical bomb scoring system used primarily as a training tool for improving the bomb delivery proficiency of tactical aircrews. The WISS can score either day or night operations, using either color video cameras or infrared cameras. It produces and immediately displays the most recent score, which an operator can transmit to the pilot by radio. The WISS also produces a real time data stream of impact data that can be captured by other systems that have a compatible interface and support software. The Large Scale Target Sensor System (LSTSS) is designed to provide support for realistic attack training. Multiple targets are interconnected by a fiber optic communications channel or a Ultra High Frequency (UHF) radio frequency, providing the ability to monitor and control an extended, realistic target environment for simulated ordnance delivery. The system provides real-time synthetic video display of the target area, and animated symbology indicating the status/performance of various sensors. The Laser Evaluator System - Mobile (LES-M) will provide training support for airborne laser designators. This portable system provides real-time, closed-loop training, and may be monitored by the designator operator and training authorities for evaluation. It has a 360 degree field of view, allowing simple installation and realistic training. c. ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS): The ADDS procurement supports the Tactical Air Combat Training systems (TACTS), Air Combat Maneuvering Instrumentation Systems (ACMI), and Measurement and Debriefing Systems (MDS) range systems that provides real time air combat training for US Navy, Air Force, and Air National Guard aircrews. This program consists of two major subsystems, the Control and Computation Subsystem (CCS) and the Display and Debriefing System (DDS). The DDS displays data for range activity evaluation. The DDS is a large classroom display system utilizing a mainframe computer and graphics processor. The ADDS is a smaller, low-cost, enhanced capability DDS, in a workstation configuration, utilizing COTS computer equipment. FY98/99 funding completed procurement of the required systems and associated equipment. No FY00/01 funding is requested. d. JOINT TACTICAL COMBAT TRAINING SYSTEM (JTCTS): With the advent of technological advancements, FY99-01 funding continues the procurement of ground systems which provide tactical aircrews with a rangeless training capability and also provide a capability				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMBAT TRAINING RANGES		
Description (cont.): for live ground monitoring of training activity when a training range is instrumented with appropriate JTCTS ground components. JTCTS is a joint Air Force/Navy program with the Navy as the lead service. The JTCTS will maximize the use of COTS equipment and non-developmental items (NDI). Generally, the JTCTS will include both a rangeless operational capability and a capability to monitor tactical aircraft training activities as they are occurring. The JTCTS will consist of ground subsystem(s) and airborne subsystems. This funding requirement covers only the non-aircraft/ground requirement. The JTCTS ground /airborne subsystems consist of all hardware and associated software required to provide the functional performance for rangeless operation, live monitor operation, aircrew debriefings, security, and maintenance. e. ALPENA KADENA INTERIM TRAINING SYSTEM (AKITS): FY98/99 funding provides a system consisting of 24 GPS training pods, and 3 display and debriefing stations to conduct air-to-air training exercises, at the Combat Readiness Training Center (CRTC) located in Alpena, Michigan. AKITS provides an interim capability, until JTCTS is fielded. No FY00/01 funding is requested. f. ADVANCED THREATS UPGRADE: FY98-01 funding provides systems upgrades for the AN/MST-T1(V), Mini-MUTES in order to satisfy Electronic Warfare (EW) training capability requirements. The Mini-MUTES is a surface-to-air-missile threat radar electronic signal. The required system upgrades will modernize Mini-MUTES capability to incorporate the latest, most lethal advanced threats and enable Mini-MUTES to be a high quality training system through the year 2015 with increased logistics supportability. g. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES: FY98-01 funds range upgrades with additional security equipment and GPS capability. This effort, a "modular" approach to ACMI range upgrades, provides an interim AMRAAM weapons simulation capability for range training, in FY00 at Tyndall AFB, FL, and Gulfport ANG Base, WI, and in FY01 at Volkfield ANG Base, WI, and Holmstead, AFB, FL. Aging computational and control systems (CCS) and display and debriefing systems (DDS) with high sustainment costs will be replaced with smaller, more capable, efficient open architecture computer systems capable of hosting the latest fielded software upgrades. In addition, security equipment and Global Positional System (GPS) capability will be added to ranges to support an immediate need for AMRAAM training. Security equipment will encrypt the data link needed for AMRAAM training and GPS capability will provide expanded range coverage also				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMBAT TRAINING RANGES		
Description (cont.): needed to accommodate AMRAAM training. The GPS capability will also reduce the number of ground stations needed, reducing sustainment costs.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AIR COMBAT TRAINING SYSTEM									
A. ALASKAN AIR COMBAT TRAINING SYSTEMS (ACTS)	A		\$2,176		\$7,913				
B. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)	A		\$2,053		\$2,490		\$4,926		\$4,140
C. ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS)			\${2973}		\${2177}				
1. DISPLAY AND DEBRIEFING SYSTEM (DDS)	A		\$1,050		\$1,226				
2. CONTROL AND COMPUTATION SUBSYSTEM (CCS)	A		\$1,923		\$951				
D. JOINT TACTICAL COMBAT TRAINING SYSTEM (JTCTS)	A		\$0		\$6,923		\$3,733		\$10,680
E. ALPENA KADENA INTERIM TRAINING SYSTEM (AKITS)	A		\$3,205		\$1,050				
F. ADVANCED THREATS UPGRADE	A		\$2,088		\$1,400		\$6,626		\$13,039
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
G. AIR COMBAT TRAINING SYSTEM (ACTS) UPGRADES	A		\$120		\$248		\$2,218		\$2,400
Totals:			\$12,615		\$22,201		\$17,503		\$30,259
Remarks:									
P-1 ITEM NO: 55		PAGE NO: 92			Page 2 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. AIR COMBAT TRAINING SYSTEMS (1)										
A. ALASKAN AIR COMBAT TRAINING SYSTEMS (ACTS)										
FY98			AFMC/AAC (7)	OPT/FFP	APPLIED DATA TECHNOLOGY INC. (ADTI) SAN DIEGO, CA (2)	MAR 98	AUG 99			
FY99			AFMC/AAC (7)	OTH/FFP	MULTIPLE (4)	JUL 99	JUN 00	Y		
B. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)										
FY98			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (3)	MAR 98	NOV 98			
FY99			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (3)	MAR 99	NOV 99	Y		
FY00			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (3)	MAR 00	NOV 00	Y		
FY01			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (3)	MAR 01	NOV 01	Y		
C. ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS)										
FY98			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (5)	FEB 98	JUL 98			
FY99			AFMC/AAC (7)	MIPR/OTH	MULTIPLE (5)	FEB 99	JUL 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/ELECTRONICS & 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				
D. JOINT TACTICAL COMBAT TRAINING SYSTEM (JTCTS)													
FY99			AFMC/AAC (7)	MIPR/CPAF	NAVY RAYTHEON PROVIDENCE, RI	JUL 99	APR 00	Y					
FY00			AFMC/AAC (7)	MIPR/CPAF	NAVY RAYTHEON PROVIDENCE, RI	JUL 00	MAR 01	Y					
FY01			AFMC/AAC (7)	MIPR/CPAF	NAVY RAYTHEON PROVIDENCE, RI	JUL 00	FEB 02	Y					
E. ALPENA KADENA INTERIM TRAINING SYSTEM (AKITS)													
FY98			AFMC/AAC (7)	SS/FFP	CUBIC, SAN DIEGO, CA	AUG 98	DEC 98						
FY99			AFMC/AAC (7)	C/FFP	MULTIPLE (4)	JUL 99	OCT 99	Y					
F. ADVANCED THREATS UPGRADE													
FY98			AFMC/SM-ALC	C/FFP	HARRIS CORP MELBOURNE, FL	JUL 98	NOV 00						
FY99			AFMC/SM-ALC	OPT/FFP	HARRIS CORP MELBOURNE, FL	JAN 99	NOV 01						
FY00			AFMC/SM-ALC	OPT/FFP	HARRIS CORP MELBOURNE, FL	JAN 00	DEC 02	N	NOV 99				
FY01			AFMC/SM-ALC	OPT/FFP	HARRIS CORP MELBOURNE, FL	JAN 01	JAN 03	N	NOV 00				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">P-1 ITEM NO: 55</td> <td style="width: 25%; text-align: center;">PAGE NO: 94</td> <td style="width: 25%; text-align: right;">Page 2 of 3</td> </tr> </table>											P-1 ITEM NO: 55	PAGE NO: 94	Page 2 of 3
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
G. AIR COMBAT TRAINING SYSTEM (ACTS) UPGRADES										
FY98			AFMC/AAC (7)	C/FFP	MULTIPLE (6)	JAN 99	MAR 99			
FY99			AFMC/AAC (7)	C/FFP	MULTIPLE (6)	MAY 99	JAN 01	Y		
FY00			AFMC/AAC (7)	C/FFP	MULTIPLE (6)	MAY 00	JAN 02	Y		
FY01			AFMC/AAC (7)	C/FFP	MULTIPLE (6)	MAY 01	JAN 03	Y		
REMARKS: 1. Quantity and Unit cost varies due to the amount and types of equipment being installed at different ranges. 2. Alaskan Air Combat Training System (ACTS) contract option exercised in Mar 98 to a contract with Applied Data Technology, Inc. San Diego, CA. 3. Joint Advanced Weapons Scoring System (JAWSS) procured by Naval Warfare Assessment Station, Corona, CA and Naval Air Warfare Center, Point Mugu, CA. Award Dates and Date First Delivery represent the first contract awarded of the multiple contracts. 4. Contractors may include: Applied Data Technology, Inc. (ADTI), Cubic, San Diego, CA; Sverdrup, Ft Walton Beach, FL or Semcor, Shalimar, FL. 5. Commercial-off-the-Shelf (COTS) Local Base Purchase. 6. Contractors may include: Cubic, San Diego, CA; Metric, Ft Walton Beach, FL. 7. Aeronautical Systems Center (ASC), Eglin AFB, changed to Air Armament Center (AAC).										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$11,546	\$1,541	\$5,168	\$36,284	\$23,378	\$11,000	\$7,647	\$6,382
<p>Description:</p> <p>The Minimum Essential Emergency Communications Network (MEECN) systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrent forces.</p> <p>1. The Defense Improved Emergency Message Automatic Transmission System (IEMATS) Replacement Command & Control Terminals (DIRECT) is a strategic nuclear command and control (C2) system directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the NCA. The Director, Joint Staff, established an urgent and compelling need to field an IEMATS replacement no later than second quarter FY99. DIRECT will provide all current IEMATS requirements, including the build and release of Emergency Action Messages (EAMs), to allow the warfighter to remain responsive to NCA directives. DIRECT will be certified to Top Secret-Single Integrated Operational Plan (SIOP) messaging. FY98 funding procured and installed DIRECT at seven operational nuclear command centers to prepare the initial cadre of users and trainers. FY99 funding provides for Engineering Change Orders (ECO), program management administration (PMA), and interim contractor support (ICS) for the last quarter of FY99. FY00 funding will procure and install one Depot Software Support Facility (DSSF), add AUTODIN interfaces, and provide for ECO, PMA, and ICS through FY00 until follow-on maintenance support will be available. FY01 funding will procure and install an additional DIRECT system for a nuclear command center in Europe, as well as provide for ECO and PMA.</p> <p>2. The Minuteman MEECN Program (MMP) combines an extremely high frequency (EHF) communications capability (formerly the ICBM Launch Control Center (LCC) EHF System (ILES) and a very low frequency/low frequency (VLF/LF) communications capability (formerly a portion of the Modified Miniature Receive Terminal (MMRT) program, into one integrated program providing survivable EHF and VLF/LF</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK			
Description (cont.): communications to the Minuteman ICBMs. The MMP will replace the aging and soon unsupportable Survivable Low Frequency Communication System (SLFCS), ICBM Super High Frequency (SHF) Satellite Terminal (ISST), and AFSATCOM reportback capabilities in the LCCs. FY01 funding will procure and install 27 systems, Type I training, ECOs, and PMA. Research Development Test and Evaluation (RDT&E) funding for MEECN DIRECT and MEECN MMP is reported in Program Element #0303131F of the Descriptive Summaries.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)						DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. DIRECT				{11546}			{1541}			{5168}			{1600}
SYSTEM HARDWARE	B	7	1,627,429	11,392						1,670	1	1,150,000	1,150
ECP/ECO				154			150			374			200
PGM MGT ACTIVITIES							1,160			1,197			250
ICS							231			1,927			
2. MMP													{34684}
SYSTEM HARDWARE	B										27	819,000	22,113
ECP/ECO													1,117
TRAINING (TYPE 1)													1,530
INSTALL & CHECKOUT													8,535
PGM MGT ACTIVITIES													1,389
TOTALS:				11,546			1,541			5,168			36,284
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. DIRECT										
FY98	7	1627429	AFMC/ESC	SS/FPAF	GTE, GOV SYS CORP, NEEDHAM, MA	AUG 98	JUL 99			
FY00 (1)			AFMC/ESC	OPT/CPAF	GTE, GOV SYS CORP, NEEDHAM, MA	DEC 99	JUL 00	Y		
FY01	1	1150000	AFMC/ESC	SS/FPAF	GTE, GOV SYS CORP, NEEDHAM, MA	MAR 01	OCT 01	Y		
2. MMP										
FY01	27	819000	AFMC/OO-ALC	OPT/FPAF	TRW, OGDEN UT (2)	DEC 00	MAY 01	N	DEC 00	
REMARKS: 1. Quantities and unit costs vary due to various type of equipment being procured. 2. In addition to FPAF, CPAF is for recurring and nonrecurring engineering tasks that support production. The production contract is a modification to the Engineering, Manufacturing and Development (EMD) contract awarded in Aug 96. 3. This will be a priced option on existing OO-ALC contract awarded in Feb 98.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: C3 COUNTERMEASURES				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$12,388	\$17,683	\$13,275	\$15,665	\$9,611	\$10,585	\$10,810	\$11,054
<p>Description:</p> <p>US military forces now 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 which in turn may represent potentially crippling vulnerabilities. The Air Force (AF) solution -- Information Operations (IO) – is in its infancy both operationally and doctrinally. IO is those actions taken to gain, exploit, defend or attack information and information systems and include both information-in-warfare and information warfare. Information Warfare (IW) is IO conducted to defend one’s own information and information systems, or to attack and affect an adversary’s information and information systems.</p> <p>Command and Control Warfare (C2W) is a warfighting application of IW in military operations. Capabilities used to conduct information warfare include Electronic Warfare (EW) Psychological Operations (PSYOP),military deception, physical attack, information attack, and various security measures. The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), 67th Intelligence Wing, and Joint Command and Control Warfare Center (JC2WC), all located in San Antonio, TX, are responsible for IW and C2W operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment (computer, communications, and unique intelligence and analysis systems) vital to accomplishing and supporting IW and C2W missions. Elements of the program are addressed individually below.</p> <p>1. AF INFORMATION WARFARE CENTER (AFIWC) SUPPORT: AFIWC is the AF center of excellence for IW and is under the direction of AIA. AFIWC provides technical assistance to the AF for IW and EW analysis and strategy for combat preparation, planning, and</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: C3 COUNTERMEASURES			
Description (cont.): operations/weapons systems development and assessment. FY98-01 funding procures equipment and tools for the following projects: <ul style="list-style-type: none">a. AUTOMATIC DATA PROCESSING (ADP) UPGRADES: FY98-01 funding continues to replace basic AFIWC internal computer infrastructure and network requirements for administrative and management functions.b. MODELING AND SIMULATION: FY98-01 funds purchase computer equipment to conduct AFIWC analysis providing the capability to show detailed analysis and graphic displays vital to the protection of USAF aircraft and the assessment of USAF EW systems.c. COMMAND AND CONTROL WARFARE (C2W) OPERATIONS SUPPORT: FY98-01 funds procure equipment to maintain the Integrated C2W Knowledgebase, (formerly called CONSTANT WEB) which is an approved migration database for C2W operations - a proven capability in Desert Storm/Desert Shield and recent operations in southwest Asia.d. INFORMATION WARFARE (IW): FY98-01 funds procure computer and computer related equipment to support the integration of C2W decision aids into combat planning and execution cycles.e. OFFENSIVE IW: FY98-01 funding continues the procurement of computer, computer related, memory storage, communication, and unique intelligence and analysis equipment required to support IW analysis vital to deliver timely AF IW capability for training and combat operations.					
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: C3 COUNTERMEASURES		
Description (cont.): a. COMMUNICATIONS SECURITY (COMSEC) ASSESSMENT SUPPORT: FY99-01 funding continues the procurement of equipment to monitor friendly unsecured telecommunications to provide USAF commanders an Operations Security (OPSEC) vulnerability assessment of their units. b. TELECOMMUNICATIONS MONITORING AND ASSESSMENT PROGRAM (TMAP): FY98-01 funding provides systems equipment to monitor digital voice, data, facsimile, and video in an integrated package. 3. JOINT COMMAND AND CONTROL WARFARE CENTER (JC2WC): The JC2WC provides joint force commanders (combatant commanders, subordinate unified commanders, and joint task force commanders), service component commanders and functional component commanders direct C2W support. The JC2WC supports the integration of the various capabilities of C2W throughout the planning and execution phases of operations. The JC2WC provides predictive analysis and post event mission analytic support to US forces involved in contingency operations. The JC2WC analyzes and correlates all-source data on both friendly and threat forces involved in contingency operations. This data is used as input into sophisticated C2W computer models and simulations. These high-fidelity models incorporate complex radar detection analysis calculations and anomalous propagation (such as the bouncing of radar signals through the atmosphere) to provide field commanders composite analytic pictures. The JC2WC provides tactical and technical evaluations to include integrated soft/hard kill options and technical feasibility and trade-offs. This analysis results in a complete assessment of C2W options and effectiveness predictions. a. ELECTRONIC COMBAT (EC) ANALYST NETWORK: FY98-01 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations to improve performance of C2W computer models. b. COMBAT ANALYSIS SYSTEM: FY98-01 funding provides for deployable combat field support systems and equipment used for				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: C3 COUNTERMEASURES		
Description (cont.): detecting, identifying, locating, targeting, exploiting, and counter signals in support of combatant commanders, national agencies, exercises, and advanced concept technology demonstrations (ACTD) vulnerability assessments. c. FIELD COMMANDERS SUPPORT: FY98-01 funding provides for equipment for field commanders support for information operations targeting. d. COMPUTERIZED TRAINING SIMULATION: FY98-01 funding provides equipment to enhance training in the use of the deployable combat field support systems, and other equipment for detecting, identifying, locating, targeting, exploiting, and counter signals in support of combatant commanders, national agencies, exercises, and ACTD vulnerability assessments. e. C2W TEST SUPPORT: FY98-01 funding provides field commander support systems including, automated support systems for IW/C2W training. A reduction, or loss in C3 Countermeasures funding would severely hamper support to joint force, service, and functional component commanders in IW/C2W support. It will result in the inability to: (1) replace mission-critical computer hardware that is not Y2K compliant; (2) upgrade multi-processors which would degrade IW/C2W modeling and simulations; (3) upgrade IO computer models used for vulnerability assessments; (4) provide state-of-the-art technology and equipment for deployed units; and (5) provide adequate support for commanders IW Protective/Defensive efforts. 4. INFORMATION WARFARE SQUADRON (IWS): The 609th IWS at Shaw AFB, SC represents the vanguard of AF operational IW. 609th IWS is a combat unit fighting tomorrow's war today. The IWS is the AF focal point for planning and executing all aspects of Offensive Counterinformation (OCI) and Defensive Counterinformation (DCI). The squadron is responsible for the integration and execution of all the OCI and DCI capabilities in support of the Joint Force Air Component Commander's (JFACC) Joint Air and Space Operations Plan (JASOP).				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: C3 COUNTERMEASURES		
Description (cont.): FY 98 funds procured ADP and associated equipment to support the IWS. No FY 00/01 funding is requested. 5. SECURE TERMINAL EQUIPMENT (STE): The assurance of secure voice and data transmissions is essential for the conduct of operations within the AF. FY99 funding for STEs contributes to a secure reachback capability for IW personnel assigned to the USAF Numbered Air Forces. No FY00/01 funds are requested. 6. INFORMATION WARFARE (IW) FLIGHTS: The Chief of Staff of the Air Force (CSAF) directed in Jun 98 the establishment of IO Cadres (since renamed IW Flights) in six warfighting NAFs worldwide in order to embed operational IO activities and support within the warfighting NAFs/JFACCs. The IW Flights will assume all responsibilities previously assigned to the 609th IWS for their respective Numbered Air Forces (NAF), as the decision also directed the deactivation of the 609th IWS concurrent with activation of the 9th AF IW Flight. FY00-01 funding will be used to procure the necessary equipment (computers, ADPE, network monitoring equipment, communications, etc) to allow the activation of these IW Flights.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: C3 COUNTERMEASURES					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AFIWC SUPPORT			\${7486}		\${7050}		\${6944}		\${8140}
A. ADP UPGRADES	A		\$170		\$220		\$230		\$238
B. MODELING AND SIMULATION	A		\$511		\$602		\$604		\$619
C. C2W OPS SUPPORT	A		\$255		\$328		\$330		\$336
D. INFORMATION WARFARE	A		\$1,956		\$2,226		\$2,622		\$3,478
E. OFFENSIVE IW	A		\$4,594		\$3,674		\$3,158		\$3,469
2. 67TH INTEL WING SUPPORT			\${1022}		\${1503}		\${1411}		\${1436}
A. COMSEC ASSESSMENT SP	A				\$424		\$396		\$404
B. TMAP	A		\$1,022		\$1,079		\$1,015		\$1,032
3. JC2WC			\${1714}		\${1649}		\${1767}		\${1655}
A. EC ANALYST NETWORK	A		\$654		\$322		\$341		\$320
B. COMBAT ANALYSIS SYSTEM	A		\$100		\$941		\$1,009		\$950
C. FIELD COMMANDERS SUPPORT	A		\$200		\$94		\$109		\$100
D. COMPUTERIZED TNG SIM			\$260		\$186		\$199		\$185
E. C2W TEST SUPPORT			\$500		\$106		\$109		\$100
4. INFO WARFARE SQ (IWA)			\$2166						
5. SECURE TERMINAL EQUIPMENT (STE)	A				\$7,481				

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: C3 COUNTERMEASURES
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PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
6. IW FLIGHTS	A						\$3,153		\$4,434
Totals:			\$12,388		\$17,683		\$13,275		\$15,665

Remarks:

Multiple quantities and unit costs associated with C3 Countermeasures equipment.

The AIA is the primary contracting office (PCO) for these Countermeasures items. Multiple contracts and delivery dates exist for the various types of equipment throughout the fiscal years. Typical contractors involved are : Silicon Graphics, Mountain View CA; Loral, Las Vegas NV; Ratheon, Galeta CA; L3 Communications Corp, Camden NJ; and Southwest Research Inc (SWRI), San Antonio TX.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: JOINT SURVEILLANCE SYSTEM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$0	\$0	\$2,871	\$9,277	\$4,756	\$4,955	\$5,060	\$5,174
<p>Description:</p> <p>The Joint Surveillance System (JSS) is a major component of the Integrated Tactical Warning and Attack Assessment (ITW/AA) system. The ITW/AA is used by North American Air Defense (NORAD), a bilateral United States and Canadian military command, to provide warning of an atmospheric (aircraft) or exatmospheric (missile) attack on North America. Within the ITW/AA system, the primary mission of the JSS is the maintenance of air sovereignty over the North American continent.</p> <p>REGION/SECTOR AIR OPERATIONS CENTER (R/SAOC) MODERNIZATION: The R/SAOC computer system processes, integrates, displays and stores data received from existing surveillance, command and control, and intelligence systems. This data comprises the atmospheric portion of the ITW/AA data to provide strategic and tactical decision-makers with accurate air defense data in support of regional aircraft control/intercept missions, including counterdrug operations. The modernized R/SAOC computer system will be a state-of-the-art open architecture of modular design that employs commercial-off-the-shelf/government-off-the-shelf (COTS/GOTS) hardware and software. It will accommodate all present operational requirements with expansion capabilities to incorporate any new national missile defense, cruise missile defense, and space based sensors. The modernized system will replace the existing AN/FYQ-93 system, a 1970's proprietary design that has reached its saturation point, cannot support the expanding mission, and is becoming increasingly difficult to maintain.</p> <p>Reference RDT&E funding in Air Force Descriptive Summary PE 0102326F.</p> <p>FY00 funds will procure Prime Mission Equipment (PME) and contract award fee. FY01 funds will procure PME, contract award fee, site</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: JOINT SURVEILLANCE SYSTEM		
Description (cont.): activation, and preoperational support.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: JOINT SURVEILLANCE SYSTEM							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
REGIONAL/SECTOR AIR OPERATIONS CENTER (R/SAOC) MODERNIZATION										{2871}			{9277}
1. PRIME MISSION EQUIP (PME)	A									2,352			6,310
2. CONTRACT AWARD FEE										519			779
3. SITE ACTIVATION													1,031
4. PRE-OPERATIONAL SPT													1,157
TOTALS:										2,871			9,277
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: JOINT SURVEILLANCE 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	
R/SAOC MODERNIZATION (1)										
FY00			AFMC/ESC	OPT/CPAF(2)	LITTON/AGOURA HILLS, CA	JAN 00	JAN 01	Y		
FY01			AFMC/ESC	OPT/CPAF(2)	LITTON/AGOURA HILLS, CA	OCT 00	APR 01	Y		
REMARKS: 1. Quantity and unit price is variable according to site. 2. Option to existing prior year AFMC/ESC R&D contract with Litton, Agoura Hills CA, awarded Mar 97.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$35,619	\$25,344	\$28,361	\$37,668	\$15,616	\$15,572	\$15,901	\$16,261
<p>Description:</p> <p>Base Level Data Automation (BLDA) consists of several standard Air Force-wide base level computer programs. These programs include automation support of 12 major base level functions such as maintenance, fuels, civil engineering, transportation, contracting, and supply. They provide productivity gains and increase the overall efficiencies of base level functions. Some programs, such as Wing Automatic Data Processing, support the consolidation of Automated Data Processing Equipment (ADPE), providing the migration to open systems architecture and software standardization at Regional Processing Centers (RPCs) based on the Ada programming language. These programs are key to the Air Force's Global Engagement strategy. They provide the warfighter with a "one update-one time" data processing environment.</p> <p>1. CARGO MOVEMENT OPERATIONS SYSTEM (CMOS): Capable of supporting routine and surge requirements, CMOS automates base shipping and deployment processes, produces movement documentation, and furnishes timely information to Major Commands (MAJCOMs), transportation component commands and the joint deployment community. As the Air Force cargo movement information system, CMOS is a major contributor to Department of Defense (DoD) in-transit item visibility and control over cargo and passenger movement. FY98-01 funds provide Radio Frequency (RF) access technology hardware to enable current hand-held terminals to scan bar-coded shipping documents and transmit the data electronically via RF to the CMOS server for processing.</p> <p>2. WING AUTOMATIC DATA PROCESSING (ADP) SUPPORT (WAS): This program provides for Life Cycle Management (LCM) of Standard Base Level Computer (SBLC) support through computer systems for Air Force installations worldwide. During both peace and wartime contingencies, bases are provided hardware/software tools and services to maintain base level support at base-level and regionalized</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM		
Description (cont.): sites in support of flight line maintenance, supply, accounting and finance, budget and personnel service systems at active duty Air Force Bases, Air National Guard and Air Force Reserve installations, and Defense Megacenters (DMCs). This program sustains the support provided to our bases and does not develop new systems or application code. FY98-01 funding continues to provide hardware upgrades and communications interfaces. Failure to fund these upgrades could make the entire standard base-level computer support system inoperative, degrading or disabling the functions of our warfighting missions.				
3. WORK INFORMATION MANAGEMENT SYSTEM (WIMS)/SERVICE INFORMATION MANAGEMENT SYSTEM (SIMS)/BASE CONTRACTING AUTOMATION SYSTEM (BCAS): FY98 funding completed the procurement of servers and other communication equipment which enhances the capability for the RPCs to accommodate the regionalization of WIMS/SIMS/BCAS. No FY00/01 funding is requested.				
4. FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS): FAMS is a fuels data collection/information management system that uses state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations. FAMS: (1) addresses critical needs in managing USAF fuels; (2) reduces error rates in a \$4 billion annual fuels budget; (3) reduces the risk of loss of life and property; (4) reduces USAF fuels management manpower; and (4) provides accurate information for war planning, which increases the USAF's ability to respond to threats. It eliminates much of the paperwork and manual input in today's fuels management, providing total asset visibility while improving cash flow, credit management, and just-in-time inventory. One hundred thirteen (113) manpower positions were given up based on projected FAMS savings. FAMS also provides the more important benefits associated with safety and the environment. The system consists of three hardware components that collect fuel transactions and inventory data at base level for service stations (Automated Fuels Service Stations (AFSS)), storage tanks (Automatic Tank Gauging (ATG) devices), and aircraft refueling systems (Automated Data Collection/Fuel Dispensing Systems (ADC/FDS)). In addition, FAMS sustains an information management system to support all users. At the Air Force level, FAMS enhances the aviation fuel tracking/billing system. FY98 funded system test and the installation of 50 ATG devices and 975 ADC/FDS systems in Pacific Air Forces (PACAF); and installation of 150 ATG devices and equipment at 34 AFSS at Air National Guard				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM		
Description (cont.): sites. FY99-01 continues installation of ATG devices and ADC systems in the Pacific.				
<p>5. STANDARD PROCUREMENT SYSTEM (SPS): The SPS is a DoD-directed Major Automated Information Systems Review Council (MAISRC) program. SPS will replace all DoD non-classified procurement information systems and databases and provide over 51,000 DoD procurement professionals (approximately 7,900 Air Force) with an Automated Information System (AIS) based on standard DoD procurement processes and DoD standard data. The Air Force, along with other DoD procurement agencies supporting SPS, has the acquisition responsibility to provide hardware and communications connectivity to support the SPS. Funding for FY98-01 procures computer hardware and associated software, local area networks, servers, and communications infrastructure at the Major Commands and base level contracting offices.</p>				
<p>6. INTEGRATED MAINTENANCE DATA SYSTEM (IMDS) SYSTEM: This program will replace all existing legacy systems supporting Air Force maintenance activities with a single integrated open architecture, modern decision support system. This enhanced decision support system will increase operational production capability and support system efficiency while decreasing our mobility footprint and cost of operations. FY98-01 funding purchases computer hardware, local area networks and servers as needed at Air Force Wings, Depots, Major Commands, and HQ USAF for IMDS deployment.</p>				
<p>7. PERSONNEL ADMINISTRATION: FY98/99 funding completed the procurement of commercial-off-the-shelf (COTS) desktop and notebook computers and secure telephone equipment to replace the current inventory of in-garrison/deployable Deliberate and Crisis Action Planning and Execution System (DCAPES) and the Manpower and Personnel Base-Level (MANPER-B) computers for the Air Force Personnel Center. No FY00/01 funding is requested.</p>				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. CMOS	A		\$280		\$303		\$315		\$321	
2. WING ADP (WAS)	A		\$5,557		\$2,957		\$2,824		\$3,001	
3. WIMS/SIMS/BCAS	A		\$4,349							
4. FAMS	A		\$9,492		\$8,624		\$9,107		\$9,534	
5. SPS	A		\$10,610		\$11,173		\$13,434		\$22,166	
6. IMDS	A		\$1,299		\$956		\$2,681		\$2,646	
7. PERSONNEL ADMIN	A		\$4,032		\$1,331					
Totals:			\$35,619		\$25,344		\$28,361		\$37,668	
Remarks:										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM						
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. CMOS (1)										
FY98			AFMC/SSG	OPT/FP	INTERMEC CORP, EVERETT, WA (2)	OCT 97	MAR 98			
FY99			AFMC/SSG	OPT/FP	INTERMEC CORP, EVERETT, WA (2)	OCT 98	MAR 99			
FY00			AFMC/SSG	OPT/FP	INTERMEC CORP, EVERETT, WA (2)	OCT 99	MAR 00	Y		
FY01			AFMC/SSG	OPT/FP	INTERMEC CORP, EVERETT, WA (2)	OCT 00	MAR 01	Y		
2. WING ADP (WAS) (1)										
FY98			AFMC/SSG	OPT/FP	MULTIPLE (3)	OCT 97	NOV 97			
FY99			AFMC/SSG	OPT/FP	MULTIPLE (3)	OCT 98	NOV 98			
FY00			AFMC/SSG	OPT/FP	MULTIPLE (3)	OCT 99	NOV 99	Y		
FY01			AFMC/SSG	OPT/FP	MULTIPLE (3)	OCT 00	NOV 00	Y		
3. WIMS/SIMS/BCAS (1)										
FY98			AFMC/SSG	OPT/FP	PRC CORP, MCLEAN, VA (4)	MAR 98	APR 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM						
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	
4. FAMS (1)										
FY98			AFMC/SA-ALC	OPT/FP	MULTIPLE (5)	NOV 97	JAN 98			
FY99			AFMC/SA-ALC	OPT/FP	MULTIPLE (5)	NOV 98	JAN 99			
FY00			AFMC/SA-ALC	OPT/FP	MULTIPLE (5)	NOV 99	JAN 00	Y		
FY01			AFMC/SA-ALC	OPT/FP	MULTIPLE (5)	NOV 00	JAN 01	Y		
5. SPS (1)										
FY98			AFMC/SSG	OPT/FP	MULTIPLE (6)	JAN 98	MAY 98			
FY99			AFMC/SSG	OPT/FP	MULTIPLE (6)	FEB 99	APR 99			
FY00			AFMC/SSG	OPT/FP	MULTIPLE (6)	DEC 99	APR 00	Y		
FY01			AFMC/SSG	OPT/FP	MULTIPLE (6)	DEC 00	APR 01	Y		
6. IMDS (1)										
FY98			AFMC/ESC	OPT/FP	SUN MICRO SYS, MTN VIEW, CA AND HUGHES DATA SYS, IRVINE, CA (7)	FEB 98	AUG 98			
FY99			AFMC/SSG	OPT/FP	MULTIPLE (4)	SEP 99	NOV 99	Y		
FY00			AFMC/SSG	OPT/FP	MULTIPLE (4)	FEB 00	APR 00	Y		
FY01			AFMC/SSG	OPT/FP	MULTIPLE (4)	FEB 01	APR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM						
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	
7. PERSONNEL ADMIN (1)										
FY98			HQ AFPC	OPT/FP	SUN MICRO SYS, MTN VIEW, CA AND HUGHES DATA SYS, IRVINE, CA (7)	FEB 98	AUG 98			
FY99			HQ AFPC	OPT/FP	SUN MICRO SYS, MTN VIEW, CA AND HUGHES DATA SYS, IRVINE, CA (7)	FEB 99	AUG 99			
REMARKS: 1. Qunatity/unit costs vary depending on configuration of each site. 2. Option to FY94 Automatic Identification Technology contract with Intermec Corp, Everett WA. 3. Options to multiple GSA Schedule contracts. Award/delivery dates represent the date of first award and delivery. 4. Option to Super Mini contract with PRC Corp as the prime contractor. Possible contractors include Sun Micro Ssystems, Mountain View CA; Hughes Data Systems, Irvine CA and Andersen Consulting, Owego NY. 5. Options to multiple contracts to include such companies as: Syn-Tech, Tallahassee FL; Trans-Flo Instruments Ltd, United Kingdom; AEG Aktiengesellschaft Geschäftsfeld Automatisierungstech, Germany. 6. Options to DTV and Ulana standard contracts. 7. Options to the standard Air Force workstation contract awarded in Mar 1996 to Sun Micro Systems, Mountain View CA and Hughes Data Systems, Irvine CA.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$42,686	\$44,150	\$47,648	\$51,554	\$44,844	\$44,054	\$44,983	\$45,998
<p>Description:</p> <p>THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS) is an integrated battle management system used to plan, execute and manage an air campaign. It provides a complete tool kit enabling consistent, coordinated battle management at both the Air Operations Center (AOC) (force level) and the unit levels (operations and intelligence functions). The TBMCS program emerged from the integration of several "stovepipe" systems in a common operating environment. The integration of the Contingency Theater Automated Planning System (CTAPS), the Combat Intelligence System (CIS), and the Wing Command and Control System (WCCS) resulted in a consistent software architecture that tightly streamlines the flow of information. TBMCS is the U.S. Joint Standard System for generation and dissemination of the air tasking order, and will be interoperable with allied units at the AOC, wing, and unit levels.</p> <p>This program purchases state-of-the-art equipment to satisfy Air Force requirements for automated support of command and control (C2) functions at both force and unit levels worldwide. As the functions of CTAPS (Force level), WCCS (Unit level) and CIS (Intel) migrated into a single integrated system, the funding for the earlier separate procurements (CTAPS and WCCS) was re-programmed under TBMCS. Procurement to support Theater Battle Management Combat Intelligence will continue to be funded in the P-1 line Intelligence Data Handling System (IDHS) (P-1 Line #40).</p> <p>FY 98-01 funding will procure the hardware replacements necessary for fielded force and unit level installations to sustain operations and to support TBMCS software versions. TBMCS funds will also procure a full complement of equipment for three initial Unit level installations in FY98, and three/four initial Unit installations in FY00/01 respectively. Currently (through FY98), of the 42 required Unit level installations, 14</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEM		
Description (cont.): are complete and 3 are in progress. The fielding of TBMCS Version 1.0 will incorporate the TBMCS Y2K solution. Minimum operational performance requirements dictate a significant hardware upgrade in support of this software. As a result, all FY99 initial Unit level installs are eliminated. Additionally, FY98-01 funds procure, integrate and deploy the Combat Integration Capability (CIC) into the AOCs to process time critical targets (TCT) during the execution of daily operations. The CIC will allow the commander to monitor the battle space, discriminate TCTs from other tactical activity, identify the best available weapon to engage the TCT, and coordinate engagement of the weapon and weapon platform. Also included in the FY98 program are Command and Control Information Processing System (C2IPS) nodes for non-Air Mobility Command (AMC) C2IPS sites. FY98-01 funds also provide required software licenses, type one training, engineering support, and system program office support for TBMCS applications.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEM							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
TBMCS													
A. HARDWARE	A			{27401}			{28562}			{31183}			{31988}
FORCE (1)				8,131			8,919			4,327			7,966
UNIT (1)				13,444			16,643			22,807			22,304
CIC				5,826			3,000			4,049			1,718
B. C2IPS NODES	A			1,876									
C. COTS SW LICENSES				7,129			4,004			8,417			9,247
D. TYPE 1 TRAINING (2)				1,501			5,013			1,333			3,467
E. ENG/SPO SPT				4,779			6,571			6,715			6,852
TOTALS:				42,686			44,150			47,648			51,554
REMARKS: 1. Force and Unit level initial installs and technical upgrades. In FY98 (and prior) Force level was identified as CTAPS and Unit level was identified as WCCS. 2. The evolutionary nature of the TBMCS software development results in frequent major software releases, at which time a surge in Type 1 training is required. Type 1 training is also an annual requirement driven by the TBMCS installation schedule.													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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 (1)										
A. HARDWARE										
FORCE AND UNIT										
FY98			AFMC/ESC	OPT/IDIQ	GSA, WORLDWIDE TECH., ST. LOUIS, MO (2)	OCT 97	DEC 97			
FY99			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 98	DEC 98			
FY00			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 99	DEC 99	Y		
FY01			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 00	DEC 00	Y		
CIC										
FY98			AFMC/ESC	OPT/IDIQ	GSA, WORLDWIDE TECH., ST. LOUIS, MO (4)	APR 98	SEP 98			
FY99			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (4)	NOV 98	JAN 99	Y		
FY00			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (4)	NOV 99	JAN 00	Y		
FY01			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (4)	NOV 00	JAN 01	Y		
B. C2IPS NODES										
FY98			AFMC/ESC	OPT/IDIQ	COMPUTER SCIENCES CORP, NJ (5)	MAR 98	SEP 98			
REMARKS: 1. Varying quantities and unit costs due to number/types of equipment being procured for specific sites. 2. Option to the Air Force Workstation Contract awarded March 1996 to Sun Micro Systems, Mountain View CA. and Hughes Data Systems, Irvine, CA. 3. Multiple GSA contracts for commerical off-the-shelf equipmnet are used. Due to more competitive pricing and delivery, the GSA contracts have										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999				
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
<p>been selected, at this time, as an alternative to the Sun Microsystem and Hughes contracts.</p> <p>4. The CIC effort requires two major contractors: GSA to procure the Government Furnished Equipment and Lockheed-Martin Command and Control Systems, Colorado Springs CO for Integration and Assembly tasks. Worldwide Technologies was the primary GSA contract vehicle used to procure hardware in FY98. Option to basic contract with Lockheed-Martin awarded in Oct 1995.</p> <p>5. Option to the Command and Control Information Processing System Contract awarded Dec 1988 to Computer Sciences Corporation, Morristown, NJ.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$17,177	\$11,119	\$14,012	\$15,018	\$3,714	\$3,726	\$3,797	\$3,895
<p>Description:</p> <p>The Information Transmission Systems program provides funding to interconnect information processing equipment (workstations, printers) and information transport systems (base-wide fiber optic networks) to form an integrated information resource infrastructure required to meet the information demands of varying organizational structures. FY98-01 funding supports requirements for local area networks (LANs), wide area networks (WANs) including LAN/WAN equipment items (network file servers, network management systems, network storage units); and transmission components (multiplexers, bridges, routers, cabling). Funds are programmed by each MAJCOM/FOA for individual mission needs.</p> <p>1. HQ AIR FORCE COMMUNICATIONS AGENCY (AFCA): FY98 funding procured a secure LAN for the Air Force Communications and Information Center (AFCIC). No FY00/01 funding requested.</p> <p>2. HQ AIR EDUCATION AND TRAINING COMMAND (AETC): These funds support AETC information transmission systems such as the Air University Distributed Information System (AUDIS) which helps achieve education excellence by procuring information technology tools to access and manage information. They procure information infrastructure (local network and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation war games, and provide the information required to execute the education mission. FY98 funds provided the network operating system, continued upgrade of the communication backbone and the intrabuilding network infrastructure within AETC. FY99-01 funding supports additional installation of equipment and associated software for the expansion of the command-wide enterprise network interconnecting similar and dissimilar smaller networks. This includes the continued expansion and upgrade</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS			
Description (cont.): of network connectivity to functional communities with inadequate or nonexistent connectivity.					
<p>3. HQ AIR FORCE MATERIEL COMMAND (AFMC): FY98-01 funding procures Air Force Systems Networking (AFSN) Modernization. This program provides a shared, single high-speed connection to the Defense Information Systems Agency (DISA) secret and unclassified networks. It also upgrades network hardware and software to improve performance, security, and manageability. FY00/01 funds also provide "bandwidth on demand" telecommunications services to non-core buildings and other base areas not covered by the Combat Information Transport System (CITS). These services give AFMC bases the capability to provide voice, data, video, imagery, and sensory system data via high speed fiber optic cables.</p>					
<p>4. HQ PACIFIC AIR FORCE (PACAF): FY98/99 funding provides continued information transmission upgrades for Hickam AFB, HI; Elmendorf AFB, AK; Eielson AFB, AK; Andersen AFB, Guam; Yokota AB, JA; Misawa AB, JA; and Osan AB, KOR. Site configurations vary by base depending on the size and mission at each location. Funds also expand the PACAF-wide secret-level network, procure the Releasable to the Republic of Korea (RELROK) dissemination system supporting the warfighters' access to the PACAF intranet, and upgrade switches (including Year 2000 (Y2K) not covered under other programs). FY00/FY01 funding will provide upgrades to the Commanders Secure Network (CSN) serving numbered air force (NAF) and wing commanders across the theater. FY00/01 funding will also procure equipment to provide a secret non-command and control network architecture within Headquarters PACAF inclusive of nine PACAF bases. Procurements include infrastructure supplies, fiber optic cable, network routers, workstations, software, and encryption devices. Four bases are expected to be completed in FY00; the remaining five bases completed in FY01.</p>					
<p>5. HQ AIR FORCE SPACE COMMAND (HQ AFSPC): FY98-01 funding continues the upgrade of command wide administrative switches, provides fiber to non-core command buildings, installs inside wiring in support of the CITS, and acquires asynchronous transfer mode (ATM) and synchronous optical network (SONET) equipment not included in the CITS system.</p>					
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Description (cont.): 6. HQ US AIR FORCE EUROPE (USAFE): FY98-01 funding purchases metropolitan and local area network (MAN/LAN) infrastructure expansion and modernization equipment, including wireless network equipment, network servers, fiber and metallic interbase and premises wiring, fiber optic transceivers, network hub equipment and operations control facility voice and data switching equipment. Funding supports the information transmission and processing requirements at fixed Air Force bases and geographically separated units throughout the 3rd and 16th Air Force areas of responsibility. 7. HQ AIR COMBAT COMMAND (ACC): FY98-01 funding procures networks and infrastructure providing efficient high-speed transport systems to the headquarters staff and combat forces command, control, communications and computers (C4) operations to base facilities, organizations, and war fighting forces. Funding is used to install/upgrade/complete information transmission systems at ACC bases in the continental United States, Howard AFB, Panama, and Lajes AFB, Azores. Systems are unique for each base and are made up of various LAN/WAN equipment items (network file servers, network management systems, network storage units) and transmission components (multipliers, bridges, routers, cabling). Funding will support the implementation of DoD Communications and Computer Systems (C-CS) initiatives (e.g., Air Force Network Control Centers, Defense Message System, and Theater Battle Management Systems).				
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INFORMATION TRANSMISSION 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	
1. HQ AFCA (1)										
FY98			HQ AFCA	MIPR/FP	OSD/WASHINGTON HQS SERVICE	SEP 98	DEC 98			
2. HQ AETC (1)										
FY98			HQ AETC	OPT/FP	MULTIPLE(2)	DEC 97	MAR 98			
FY99			HQ AETC	OPT/FP	MULTIPLE(2)	DEC 98	MAR 99	Y		
FY00			HQ AETC	OPT/FP	MULTIPLE(2)	DEC 99	MAR 00	Y		
FY01			HQ AETC	OPT/FP	MULTIPLE(2)	DEC 00	MAR 01	Y		
3. HQ AFMC (1)										
FY98			AFMC/AAC	MIPR/C/FFP	GSA/MULTIPLE (3)	MAR 98	MAY 98			
FY99			AFMC/AAC	MIPR/OPT/FFP	GSA/MULTIPLE (3)	FEB 99	APR 99			
FY00			AFMC/AAC	MIPR/OPT/FFP	GSA/MULTIPLE (3)	JAN 00	APR 00	Y		
FY01			AFMC/AAC	MIPR/OPT/FFP	GSA/MULTIPLE (3)	JAN 01	APR 01	Y		
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INFORMATION TRANSMISSION 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	
4. HQ PACAF (1)										
FY98			HQ PACAF	OPT/FP	MULTIPLE(2)	JUN 98	JUL 98			
FY99			HQ PACAF	OPT/FP	MULTIPLE(2)	JUN 99	JUL 99	Y		
FY00			HQ PACAF	OPT/FP	MULTIPLE(2)	JUN 00	JUL 00	N	APR 99	
FY01			HQ PACAF	OPT/FP	MULTIPLE(2)	JUN 01	JUL 01	N	APR 99	
5. HQ AFSPC										
FY98			HQ AFSPC	C/FP	MULTIPLE(2)	JAN 98	MAY 98			
FY99			HQ AFSPC	C/FP	MULTIPLE(2)	MAR 99	JUN 99	Y		
FY00			HQ AFSPC	C/FP	MULTIPLE(2)	JAN 00	MAY 00	Y		
FY01			HQ AFSPC	C/FP	MULTIPLE(2)	JAN 01	MAY 01	Y		
6. HQ USAFE										
FY98			HQ USAFE	OPT/FP	MULTIPLE(2)	JUN 98	JUL 98			
FY99			HQ USAFE	OPT/FP	MULTIPLE(2)	JUN 99	JUL 99	Y		
FY00			HQ USAFE	OPT/FP	MULTIPLE(2)	JUN 00	JUL 00	Y		
FY01			HQ USAFE	OPT/FP	MULTIPLE(2)	JUN 01	JUL 01	Y		
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: INFORMATION TRANSMISSION 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	
7. HQ ACC										
FY 98			HQ ACC	OPT/FP	MULTIPLE(2)	JAN 98	MAY 98			
FY 99			HQ ACC	OPT/FP	MULTIPLE(2)	FEB 99	APR 00			
FY 00			HQ ACC	OPT/FP	MULTIPLE(2)	FEB 00	APR 01	Y		
FY 01			HQ ACC	OPT/FP	MULTIPLE(2)	FEB 01	APR 02	Y		
<p>REMARKS:</p> <p>(1) Quantities and unit costs vary due to procurement of different kinds of equipment.</p> <p>(2) Options were used to procure multiple pieces of equipment from the GSA Schedule, AF Minicomputer multi-user system, AFCAC 308, Unified local area network architecture (Ulana) II, and Desktop IV contracts. Award and delivery dates, where applicable, reflect date of first award/delivery.</p> <p>(3) Contracts are largely options off GSA Schedule. Examples of contractors are: Electronic Data Systems, Herndon, VA; General Analytics Corp, McLean, VA; Toshiba American, Irvine, CA; and Computer Science Corp (CSC), Hanover, MD. Contractors also include NCI Information Systems Inc, McLean,VA and Wang Inc, McLean, VA purchased through Information Services Activity Group at HQ Standard Systems Group, Maxwell AFB, AL. Award/delivery dates represent dates of first contract award and delivery.</p>										
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$110,630	\$157,308	\$122,839	\$128,165	\$108,956	\$107,325	\$185,351	\$203,682
<p>Description:</p> <p>The Base Information Infrastructure (BII) procurement line funds the Combat Information Transport System (CITS) Program, Network Connectivity, and Public Key Infrastructure (PKI).</p> <p>1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS): CITS is a major component of the Air Force's portion of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII) efforts. CITS will modernize the information transport capability at the base level by replacing maintenance intensive equipment, replacing or upgrading some existing voice switching systems, providing network management of information systems, increasing the capacity of saturated information transmission systems, and providing information protect tools. In addition, a requirement was added to upgrade non-Year 2000 (Y2K) compliant base telephone switches Air Force-wide prior to the start of the next millennium. Several predecessor programs were merged with the creation of the CITS Program in September 1995. The current CITS effort is slated for completion in FY05. Failure to provide this infrastructure required to meet the goals established in the DII Master Plan for Command and Control (C2) operations would result in limited warfighter and wing command center access to real-time C2 information during contingencies. Such a shortfall would severely limit reach-back capability supporting deployable forward footprint-push/pull information capability and impede proactive information protection countermeasures to support collaborative information exchange. The program includes five (5) product areas which are centrally funded and managed by the CITS Program Office. The product areas are described below:</p> <p style="margin-left: 40px;">a. INFORMATION TRANSPORT SYSTEM (ITS) PRODUCT AREA: The ITS Product Area will provide each Air Force base with a</p>								
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Description (cont.): broad-band, fiber-optic digital information transport network to provide near-instantaneous information transfer. The system will have sufficient capacity to meet each base's data, voice, video, imagery, and telemetry requirements. At most Air Force bases, the existing infrastructure is incapable of supporting the current and future communications needs of the warfighter. Funding this Product Area is essential to ensure combat and combat support operations are not adversely impacted by the insufficient capacity in the existing base level networks. Initial capability will be for data transport with other media incorporated as technology and funding permit. To accelerate the Y2K upgrade of telephone switches (see Para 2d below), FY98/99 funding was rephased. FY98-01 funding procures the initial phase of ITS installation projects. Any delay in ITS installation impacts the schedules of several C2 and combat support automation modernization programs dependent upon the in-place fiber optic ITS infrastructure. b. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROTECT (NMS/BIP) PRODUCT AREA: The NMS Product Area delivers a modern network management system for the base Air Force Network Control Center (AFNCC). The NMS/BIP supports the International Standards Organization's (ISO) five network management functions: fault management, configuration management, performance management, accounting management, and security management. NMS/BIP provides the information assurance tools for each Air Force base to detect, deter, isolate, contain, reconstitute, and recover from information systems and network security intrusions or attacks. The tools will ensure information integrity, security, and confidentiality are maintained while passing information across the network(s). The CITS Program Office is leveraging two industry-leading network companies (Electronic Data Systems (EDS) and TRW, Inc) to provide best value for the Air Force. The NMS/BIP program is being executed in phases. The FY99-01 funding continues the installation of critical information equipment capabilities in fixed-based network control centers and deployed installations worldwide. Additionally, standard network management and trouble ticketing solutions will be provided for fixed-based installations. c. VOICE SWITCHING SYSTEM (VSS) PRODUCT AREA: The VSS Product Area, formerly Digital Switch System (DSS), will provide technology upgrades to some existing base telephone systems and, at some bases, new Commercial-Off-the-Shelf (COTS) digital switching equipment to replace telephone switches no longer capable of meeting mission requirements. The increased capacity and standard interfaces of				
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Description (cont.): the new or upgraded equipment (dial central offices, information transport nodes, remote switching centers, private branch exchanges, etc.) will improve intrabase connectivity and capability to move information worldwide. FY98-01 funding procures switch upgrades and replacements Air Force-wide. Funding is critical to ensure bases) will continue to have sufficient capacity critical for intrabase connectivity, new mission growth and increasing demands for fax machine and secure telephone dial-in connectivity. d. YEAR 2000 (Y2K) PRODUCT AREA: This product area addresses Y2K switching system issues with base telecommunications equipment. A total of 58 Northern Telcon switches were determined to be at risk of Y2K failure for which modernization funding was not programmed. The FY99 budget provides funds to upgrade these switches to avoid potential jeopardy to flying operations and air traffic control, command post communications, emergency services (fire/security police) and off-base access for all base personnel at the affected locations. To ensure sufficient vendor product availability, the Air Force reallocated \$20M of base-wide fiber optic cable funding to start the replacement/upgrade action for "at-risk" switches and ease the production risk of delaying all 58 switches to FY99. FY98/99 funding implements Y2K fixes for 58 switches. All 58 switches are either Y2K compliant or under contract order to be replaced/upgraded by the end of 1999. No FY00/01 funding is requested. e. TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS) PRODUCT AREA: The TMS Product Area, formerly CITS Management Subsystem (CMS), will provide an automated telecommunications management system that will provide services such as collecting and archiving information on cable plant records, servicing orders and usage/billing, directory and operator assistance (including the creation and update of telephone books), and the inventory control of logistics support items. TMS is a stand-alone system interfaced to the VSS. FY98 funded site surveys only. FY99-01 funding procures TMS for many Air Force bases. TMS funding is critical for automation at bases who otherwise will continue to be done manually, and manpower is not available at base communication units to handle this workload. 2. NETWORK CONNECTIVITY: CITS provides a broad fiber optic network to deliver data to user facilities but was not designed to connect individual user systems or applications. A majority of downward directed automation programs are also not sufficiently funded for network				
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Description (cont.): connectivity. FY00/01 funds will close this critical gap and provide network routers, hubs, and internal building wiring to connect new systems like Global Combat Support System (GCSS), Transportation Coordinators - Automated Information for Movements System II (TC-AIMS), Defense Integrated Military Human Resources System (DIMHRS), Joint Computer Aided Logistics System (JCALS), and Integrated Maintenance Data System (IMDS) to the fiber optic backbone provided by CITS.				
3. PUBLIC KEY INFRASTRUCTURE (PKI): A Department of Defense (DoD) PKI was mandated by Deputy Secretary of Defense on 8 Aug 97. FY00/01 funds will procure infrastructure computers and Air Force-wide public/private key hardware needed to generate, certify, and distribute public/private key pairs for computer applications requiring information assurance capabilities (digital signatures and data encryption). PKI provides non-repudiation, user identification, and confidentiality for government electronic business.				
Note for BII program: Base Closure plans are incorporated into the BII program. In the event a location is identified for closure, partial closure, or under study for closure, the Air Force will cease all actions pending a final determination of a location's status and, in turn, apply all available funding to existing operational requirements.				
4. AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI): FY99 funding procures new and replacement Computer Crimes Investigation (CCI) equipment required to upgrade the AFOSI CCI program capability. This equipment is used to perform media analysis and intrusion investigations. The CCI program consists of regional CCI examiners, Computer Forensic Field Examiners (CFFE), and the Intrusion Squad. CFFE workstations allow CFFE trained agents at the OSI field offices to conduct simple media analysis on computer evidence, precluding the need to bring in regional CCI examiners or having to send the evidence to a lab. In addition to the CFFE equipment, OSI requires network monitoring devices (NMD). These computers will be the primary network monitoring device at each regional CCI examiner location. These NMDs will give each regional CCI location the capability to monitor multiple networks and insure hardware capabilities keep pace with the volume of material traveling over computer networks. The OSI Intrusion Squad requires new server equipment to replace aging computer hardware. No FY00/01 funds requested.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
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PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS)			\${110630}		\${156308}		\${110203}		\${108718}
A. INFORMATION TRANSPORT SYSTEM (ITS)	A	12	\$26,105	28	\$65,226	31	\$97,468	40	\$72,745
B. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROJECT (NMS/BIP)	A	64	\$56,340	109	\$40,643	23	\$8,761	80	\$31,780
C. VOICE SWITCHING SYSTEM (VSS)	A	4	\$5,241	5	\$9,030	2	\$3,270	1	\$2,000
D. YEAR 2000 (Y2K) SWITCHES	A	29	\$22,883	29	\$37,716				
E. TELECOMMUNICATONS MANAGEMENT SYSTEM (TMS)	A		\$61	13	\$3,693	4	\$704	8	\$2,193
2. NETWORK CONNECTIVITY INSTALLATIONS	A						\$7,884		\$5,912
3. PUBLIC KEY INFRASTRUCTURE (PKI)							\${4752}		\${13535}
CERTIFICATE SERVER	A					108	\$777		
DIRECTORY SERVER	A					108	\$778		
LOCAL REGISTRATION	A					400	\$1,440		
PKI PERIPHERALS	A							273,434	\$10,800
SMART CARDS	A					616	\$1,757	273,434	\$2,735
BASIC INFRASTRUCTURE	A								
4. AFOSI	A				\$1,000				

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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	
1. CITS										
A. ITS (1) (2)										
FY98	7		AFMC/ESC	DO/FFP	38TH EIW, TINKER AFB, OK	OCT 97	DEC 97			
FY98	5		AFMC/ESC	DO/FFP	GTE SERVICES, FREDERICK, MD	OCT 97	DEC 97			
FY99	10		AFMC/ESC	DO/FFP	38TH EIW, TINKER AFB, OK	DEC 98	JAN 99			
FY99	18		AFMC/ESC	DO/FFP	GTE SERVICES, FREDERICK, MD	DEC 98	JAN 99			
FY00	31		AFMC/ESC	DO/FFP	UNKNOWN	OCT 99	DEC 99	Y		
FY01	40		AFMC/ESC	DO/FFP	UNKNOWN	OCT 00	DEC 00	Y		
B. NMS/BIP (1) (2)										
FY98	29		AFMC/ESC	DO/FFP	EDS, HERNDON, VA	NOV 97	JAN 98			
FY98	35		AFMC/ESC	DO/FFP	TRW, SAN ANTONIO, TX	NOV 97	JAN 98			
FY99	109		AFMC/ESC	DO/FFP	EDS, HERNDON, VA TRW, SAN ANTONIO, TX	FEB 99	MAR 99			
FY00	23		AFMC/ESC	DO/FFP	EDS, HERNDON, VA TRW, SAN ANTONIO, TX	NOV 99	JAN 00	Y		
FY01	80		AFMC/ESC	DO/FFP	EDS, HERNDON, VA TRW, SAN ANTONIO, TX	NOV 00	JAN 01	Y		
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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	
C. VSS (1) (2)										
FY98	3		AFMC/ESC	DO/FFP	GTE, NEEDHAM, MA	OCT 97	NOV 97			
	1		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO NC	OCT 97	NOV 97			
FY99	1		AFMC/ESC	DO/FFP	GTE, NEEDHAM, MA	OCT 98	DEC 98			
	4		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO, NC	OCT 98	DEC 98			
FY00	2		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO, NC	OCT 99	DEC 99	Y		
FY01	1		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO, NC	OCT 00	DEC 00	Y		
D. Y2K (2)										
FY98	29		AFMC/ESC	DO/FFP	GTE, NEEDHAM, MA	FEB 98	APR 98			
FY99	29		AFMC/ESC	DO/FFP	GTE, NEEDHAM, MA	OCT 98	DEC 98			
E. TMS (1) (2)										
FY98			AFMC/ESC	DO/FFP	ANSTEC, INC, FAIRFAX, VA	OCT 97	MAY 98			
FY99	13		AFMC/ESC	DO/FFP	ANSTEC, INC, FAIRFAX, VA	OCT 98	MAY 99			
FY00	4		AFMC/ESC	DO/FFP	ANSTEC, INC, FAIRFAX, VA	OCT 99	MAY 00	Y		
FY01	8		AFMC/ESC	DO/FFP	ANSTEC, INC, FAIRFAX, VA	OCT 00	MAY 01	Y		
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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	
2. NETWORK CONNECTIVITY (2)										
FY00			HQ AFCA	DO/FFP	MULTIPLE (3)	OCT 99	MAY 00	Y		
FY01			HQ AFCA	DO/FFP	MULTIPLE (3)	OCT 00	MAY 01	Y		
3. PKI (2)										
FY00			AFMC/SSG	DO/FFP	MULTIPLE (3)	OCT 99	MAY 00	N	AUG 99	
FY01			AFMC/SSG	DO/FFP	MULTIPLE (3)	OCT 00	MAY 01	N	AUG 00	
4. AFOSI (2)										
FY99			HQ AFOSI	MIPR/FFP	GSA	MAR 99	JUN 99	Y		
REMARKS: 1. Quantities reflect number of fixed-based or deployed installations. 2. Unit cost varies because of number/types of equipment being procured (site layout, number of users, data throughput, cable lengths, etc). 3. Multiple contractors, unknown at this time, will be used.										
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$3,828	\$4,440	\$5,770	\$5,869	\$5,935	\$5,948	\$6,074	\$6,211
<p>Description:</p> <p>The Air Force is the executive agent for US Central Command (USCENTCOM) and the Joint Communications Support Element (JCSE). USCENTCOM and its area of responsibility (AOR) are separated by over 7,000 miles. Command, control, communications and computer (C4) systems capable of achieving the information superiority needed to fully exploit the operational concepts of dominant maneuver, precision engagement, full dimensional protection and focused logistics are critical. The US Commander-in-Chief Central Command (CINCCENT) warfighting Command Automation System provides the necessary automated systems for command and control of all assigned forces. USCENTCOM uses the Joint Staff's Modern Aids to Planning Program (MAPP) to run automated courses of action studies and wargaming simulations to validate operational planning actions.</p> <p>1. USCENTCOM COMMAND AND CONTROL SYSTEMS: This program procures essential C4 systems in support of deployed forces as well as garrison-based contingency and peacetime operations. FY98-01 funds continue to provide for modernization of communications and automation systems which include procurement of USCENTCOM-specific Global Command and Control System (GCCS) equipment, commercial satellite communications terminals, telephone switches, Command Center Demand Assigned Access compliant radios, and upgrades to the MAPP system.</p> <p>2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE is the only joint DoD unit specifically formed to provide Command, Control, and Communications (C3) support for JCS contingency operations worldwide. FY98-01 funds provide the Air Force's one-third share to procure C3 equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: USCENTCOM		
Description (cont.): Equipment requirements are approved annually by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (Air Force).				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: USCENTCOM					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. USCENTCOM COMMAND AND CONTROL SYSTEMS	A		\$1,244		\$1,340		\$2,735		\$2,781
2. JOINT COMMUNICATIONS SUPPORT ELEMENT	A		\$2,584		\$3,100		\$3,035		\$3,088
Totals:			\$3,828		\$4,440		\$5,770		\$5,869
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. USCENTCOM COMMAND AND CONTROL SYSTEMS (1)										
FY98			USCENTCOM	C/FFP	MULTIPLE (2)	MULTI	MULTI			
FY99			USCENTCOM	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
FY00			USCENTCOM	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
FY01			USCENTCOM	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
2. JOINT COMMUNICATIONS SUPPORT ELEMENT (1)										
FY98			AFMC/ESC	C/FFP	MULTIPLE (2)	MULTI	MULTI			
FY99			AFMC/ESC	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
FY00			AFMC/ESC	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
FY01			AFMC/ESC	C/FFP	MULTIPLE (2)	MULTI	MULTI	Y		
REMARKS: 1. Quantities and unit costs vary because multiple types of equipment are being procured. 2. Multiple contract awards for small acquisitions with various contractors, contracting agencies and multiple award and delivery dates. Some contractor examples are: GTE, Needham Heights, MA; Booz-Allen Hamilton, St. Inigoes, MD; SPAWAR, North Charleston, SC; MITRE, Fort Monmouth, NJ; SAIC, San Diego, CA; Microsoft, Charlotte, NC; Sun, McClean, VA; Xerox, Tampa, FL; and NISE East, Portsmouth, VA.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: DEFENSE MESSAGE SYSTEM (DMS)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$14,713	\$15,447	\$14,025	\$16,613	\$10,772	\$19,222	\$19,513	\$19,835
<p>Description:</p> <p>This P-1 line was formerly named Automated Telecommunications Program (ATP).</p> <p>This program acquires equipment necessary to implement Air Force (AF) e-mail/messaging requirements for the Defense Message System (DMS). The DMS provides essential capabilities to carry on the wartime and peacetime missions of the Air Force in lieu of the base telecommunications centers and Automatic Digital Network (AUTODIN) switches. This is an OSD-mandated system to replace AUTODIN, which has been scaled back to support a small population of critical users from December 1999 through FY01 when AUTODIN will be shutdown. If this system is not funded, the AF will not have the capability to support a majority of its message traffic after December 1999.</p> <p>DEFENSE MESSAGE SYSTEM (DMS)-AF: DMS-AF is the Air Force portion of a DoD initiative to replace today's message communications system which supports command and control, intelligence, logistics and sustaining forces. The baseline for DMS is the AUTODIN and electronic mail (e-mail) on the DoD Internet. The goal is to move message service off the AUTODIN onto a secure, fully mature, writer-to-reader e-mail system which will ultimately allow closure of Telecommunications Centers (TCCs) by the year 2001, reducing maintenance and manpower costs. Four hundred seventy manpower slots (FY94-97) have been eliminated from Air Force TCCs in recognition of cost savings. In addition, 360 TCC manpower slots were taken (FY96-01) for reinvestment in DMS and Defense Information Infrastructure. Because of these manpower reductions, the Air Force must posture itself for closing TCCs and the shutdown of the AUTODIN.</p> <p>1. DMS Components: FY98 funds procured initial DMS products for 39 bases and supported Type I training and engineering/installation</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: DEFENSE MESSAGE SYSTEM (DMS)		
Description (cont.): services. FY99-01 funding continues engineering/installation services, upgrades DMS software, adds message profiling capability at all 92 bases, and upgrades the Technical Insertion Network Facility, Maxwell AFB - Gunter Annex, AL. 2. Basic Infrastructure: FY98 funds completed basic information system infrastructure (connecting various base-level local area networks into a metropolitan area network) for nine bases. No FY00-01 funds requested. 3. Enhanced Security Capability: FY98 funds procured 58 "Guards", a DMS security verification device to allow unclassified messages to pass between Secret and Unclassified users. FY99 funds procure Guards for 34 more bases and also procure Fortezza Cards for 60,500 users, completing distribution of Cards required for organizational messaging users (those users with authority to release official messages for their organizations) at 92 bases. FY00/01 funding will procure Fortezza Cards for an expanded user population at 92 bases. 4. Deployable DMS: Deployable DMS provides the warfighter with the same messaging capability being provided for those in garrison. FY98 funds supported the deployable Tactical DMS "proof of concept" project. Hardware and software were provided for the 10 units that participated in the proof of concept. FY99 continues the deployable Tactical DMS hardware and associated software procurement effort to provide complete tactical capability at 117 units. FY00/01 funding will continue DMS deployed capability by adding components required for a more robust tactical infrastructure at 117 units.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: DEFENSE MESSAGE SYSTEM (DMS)					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
DMS-AF									
1. DMS COMPONENTS	A		\$6055		\$6,400		\$4,332		\$4,361
2. BASIC INFRASTRUCTURE	A		\$334						
3. ENHANCED SECURITY CAPABILITY			\${2090}		\${4100}		\${800}		\${800}
A. FORTEZZA	A				\$1,500		\$800		\$800
B. GUARD	A		\$2,090		\$2,600				
4. DEPLOYABLE DMS	A		\$6,234		\$4,947		\$8,893		\$11,452
Totals:			\$14,713		\$15,447		\$14,025		\$16,613
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: DEFENSE MESSAGE SYSTEM (DMS)						
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. DMS-AF COMPONENTS (HW/SW) (1)										
FY98			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	OCT 97	JAN 98			
FY99			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	FEB 99	APR 99			
FY00			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 99	FEB 00	Y		
FY01			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 00	FEB 01	Y		
2. BASE INFRASTRUCTURE (1)										
FY98			AFMC/SSG	MIPR/FFP	GSA/WORLDWIDE TECH., ST LOUIS, MO	OCT 97	NOV 97			
3. ENHANCED SECURITY CAPABILITY (1)										
A. FORTEZZA CARDS										
FY98			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	OCT 97	NOV 97			
FY99			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	JUL 99	AUG 99			
FY00			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	DEC 99	FEB 00	Y		
FY01			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	DEC 00	FEB 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: DEFENSE MESSAGE SYSTEM (DMS)						
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. GUARD										
FY98			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	MAR 98	JAN 99			
FY99			AFMC/SSG	MIPR/FFP	NSA, FT MEADE, MD	JAN 99	MAR 99			
4. DEPLOYABLE DMS (1)										
FY98			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	OCT 97	DEC 97			
FY99			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	FEB 99	APR 99			
FY00			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 99	FEB 00	Y		
FY01			AFMC/SSG	OPT(2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 00	FEB 01	Y		
REMARKS: 1. Hardware quantities and unit costs vary and are dependent on individual sites. 2. Option to Lockheed-Martin Corp., Manassas VA contract awarded Oct 96.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NAVSTAR GPS SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$1,472	\$1,443	\$14,614	\$10,266	\$4,088	\$4,214	\$4,423	\$4,524
<p>Description:</p> <p>The NAVSTAR Global Positioning System (GPS) satisfies validated joint service requirements for worldwide, accurate, common grid, three-dimensional positioning/navigation for military aircraft, ships, ground vehicles and ground personnel. The system is composed 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 daily updates the navigation messages broadcast from the satellites to maintain system vectors to target locations or navigational waypoints.</p> <p>Air Force UE consists of 5-channel handheld sets, Precision Lightweight GPS Receiver (PLGR), (funded in Other Procurement Appropriation) and 5-channel airborne sets (funded in Aircraft Procurement Appropriation). The Defense Advanced GPS Receiver (DAGR) will be the follow-on to the PLGR. It will be functionally backward compatible with PLGR existing interfaces and support equipment so that present integration and support capabilities are minimally affected. DAGR will be utilized in the stand alone mode, in track vehicles, in low dynamic aircraft, and weapons integration.</p> <p>1. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR): The PLGR is a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information for low dynamic motion users.</p> <p style="padding-left: 20px;">a. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR) EQUIPMENT: The PLGR is a non-developmental item which is being used primarily to support Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordnance Disposals Teams, Security Police and</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: NAVSTAR GPS SPACE		
Description (cont.): Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for anti-jam communications systems. The Air Force is the lead service for PLGR procurement. FY98 funding completes PLGR procurement. No FY99-01 funding is required. b. PLGR MISSION PLANNING SOFTWARE: FY98/99 funding procured the upgrade and correction of existing Mission Planning Software (MPS) for PLGR. The upgrade corrects known deficiencies, allowing migration of MPS to newer operating systems and add customer functionality. No FY00/01 funding is requested. c. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR) WARRANTY EXTENSION: FY00-01 funding will extend the PLGR warranty. 2. HANDHELD TESTING SUPPORT: Testing support for the next-generation user equipment concepts (DAGR), as well as the current GPS handheld receiver (PLGR), are funded in FY98-FY01. 3. KEY DATA LOADING INSTALLATION FACILITY (KLIF)/SECURITY DEVICE: FY98-01 funding procures programming of black key algorithms into Selective Availability Anti-Spoofing Module (SAASM) chips providing an accurate solution for GPS users to obtain precise coordinates. 4. DEFENSE ADVANCED GPS RECEIVER (DAGR): FY00/01 funding will procure the follow-on PLGR. It will be a handheld self-contained GPS receiver with precise positioning utilizing SAASM. 5. ALTERNATE MASTER CONTROL STATION (AMCS): The AMCS (to be located at Vandenberg AFB, CA) is a functional equivalent to that of the Master Control Station (MCS) at Schriever AFB, CO. The AMCS system (FY00 purchase) consists of commercial servers,				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: NAVSTAR GPS SPACE		
Description (cont.): workstations, software packages, some developed interface code, system integration/installation, and all required communication equipment purchase/installation. The enhancements to the AMCS (FY01 Block IIF upgrades) add additional commercial servers, developed software, integration/installation, and any necessary communications equipment upgrades. The AMCS will also provide equipment for Air Education Training Command (AETC) to train 2nd Space Operations Squadron (2SOPS) operators. The AMCS will control the Global Positioning System (GPS) satellite constellation and provide support for: AETC training operations, 2SOPS control, Air Force Technical Applications Center (AFTAC) user data, satellite vehicle contractors, and auxiliary user data requirements. The AMCS is essential to providing an alternate control site for MCS when the MCS is not operational during system upgrades, tests, repairs or other similar events preventing MCS control of the constellation. The AMCS will also be used for system upgrades with live resources, testing new features with live resources, etc, prior to the upgrades being installed on the MCS, thereby minimizing operations impacts.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)													DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: NAVSTAR GPS SPACE							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
NAVSTAR GPS				{1472}			{1443}			{14614}			{10266}	
1. PLGR				{556}			{61}			{330}			{330}	
A. PLGR EQUIP	A	445	1,049	467										
B. PLGR MISSION PLANNING SW				89			61							
C. PLGR WARRANTY EXTEN										330			330	
2. HANDHELD TEST SPT				730			777			744			744	
3. KLIF/GPS SECURITY DEV				186			605			400			489	
4. DAGR	A							920	2,500	2,300	880	2,500	2,200	
5. AMCS	A									10,840			6,503	
TOTALS:				1,472			1,443			14,614			10,266	
REMARKS:														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: 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	
PLGR										
PLGR EQUIP										
FY98	445	1,049	AFMC/WR-ALC	OPT(1)/FFP	ROCKWELL COLLINS, CEDAR RAPIDS, IA	MAY 98	SEP 98			
DAGR										
FY00	920	2,500	AFMC/SMC	FCA/FFP	UNKNOWN	NOV 99	NOV 00	N	MAY 99	
FY01	880	2,500	AFMC/SMC	FCA/FFP	UNKNOWN	NOV 00	NOV 01	N	MAY 99	
AMCS (2)										
FY00			AFMC/SMC	SS/CPAF	LOCKHEED MARTIN, GAITHERSBURG, MD	OCT 99	SEP 00	Y		
FY01			AFMC/SMC	SS/CPAF	BOEING NORTH AMERICA, SEAL BEACH, CA	OCT 00	SEP 01	N	SEP 00	
REMARKS: 1. Option 3 to an existing Rockwell Contract, awarded 5 Mar 93. 2. Quantities and unit costs vary because multiple types of equipment are being procured.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: DEFENSE METEOROLOGICAL SATELLITE PROGRAM				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$10,033	\$10,675	\$1,011	\$0	\$0	\$0	\$0	\$0
<p>Description:</p> <p>The Air Force is the lead service for the joint service Defense Meteorological Satellite Program (DMSP). The DMSP mission is to provide an enduring and survivable capability through all levels of conflict to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic, and solar-geophysical data to support worldwide DoD operations and high-priority programs. Timely, high quality data is supplied to Air Force Weather Agency, the Fleet Numerical Meteorological and Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The Small Tactical Terminal (STT) program provides a highly mobile, current technology ground receiver for forward area weather support.</p> <p>SMALL TACTICAL TERMINALS (STT): The STT provides worldwide tactical users with a survivable "first-in" source of meteorological satellite data, processed by small, portable terminals in forward areas of conflict. These terminals process visual/thermal imagery and other non-imagery weather data to support combat forces. There are five versions of STTs: the basic version processes only low resolution satellite data; the enhanced version adds the capability to process high resolution data from polar-orbiting satellites; a Joint Task Force (JTF) version adds the capability to process high resolution satellite data from polar-orbiting and geostationary satellites and provides remoting capability; a Light Weight STT (L/W STT) which is a lighter, more capable version of the enhanced unit; and a stand alone STT workstation, without antennas, providing connectivity with the Global Broadcast Service (GBS) system. The total requirement for STTs is 183 units for AF operations and AF weather teams assigned to Army units.</p> <p>FY00 funding completes the requirements for the STT program.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NUDET DETECTION SYSTEM (NDS) SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$7,792	\$1,275	\$3,490	\$2,700	\$8,542	\$8,065	\$12,844	\$12,084
<p>Description:</p> <p>The United States Nuclear Detonation (NUDET) Detection System (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 Space Command (USSPACECOM) {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 three segments: space, control, and ground mission processing. The space segment consists of NUDET detection sensors on both the Global Positioning System (GPS)/NDS satellites and the Defense Support Program (DSP)/NDS satellites. The control segment of the GPS/NDS Integrated Correlation and Display System (ICADS) receives daily navigation update messages and NUDET detection mission data from the satellites. The ground mission processing segment consists of the Ground NDS Terminals (GNT), and the DSP/NDS Advanced Radiation Detection Units (ARDU).</p> <p>The GNTs process raw NDS sensor data and are the only systems that provide survivable NUDET detection, analysis, and reporting to the DoD and the National Command Authorities (NCA). As the threat from nations with nuclear weapons continues to grow, the ICADS (GPS) and ARDU (DSP) are the only operational systems that detect, locate, and report an atmospheric or space NUDET. FY98 funding provided for predominantly ICADS upgrades and other GNT upgrades to enhance compatibility with the new block satellites, and specifically to process the detection data of the new Block IIR GPS satellite. FY99-01 funding will continue life cycle replacement of ICADS computer hardware, receivers, antennas, and communications links.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: NUDET DETECTION SYSTEM (NDS) SPACE						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
ICADS UPGRADE	A		\$7,411		\$1,275		\$3,490		\$2,700	
EMP ANTENNA HARDENING	A		\$259		\$0		\$0		\$0	
GNT UPGRADE	A		\$122		\$0		\$0		\$0	
Totals:			\$7,792		\$1,275		\$3,490		\$2,700	
Remarks:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$22,193	\$22,950	\$33,591	\$32,178	\$40,216	\$34,795	\$38,027	\$33,071
<p>Description:</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 and control, communications, and range systems required to support the nation's surveillance, navigation, communications, and weather satellite operations. The AFSCN is the DoD common user network that provides satellite state-of-health, tracking, telemetry, and commanding (TT&C) for the following operational satellite systems: Defense Meteorological Satellite Program (DMSP), Global Positioning System (GPS), Defense Satellite Communications System (DSCS), Defense Support Program (DSP), Fleet Satellite (FLTSAT), Military Strategic and Tactical Relay Satellite (MILSTAR), Skynet, North Atlantic Treaty Organization (NATO) and classified programs. The AFSCN also provides mandatory launch and early orbit tracking operations in support of all major US launches.</p> <p>This project procures mission critical electronics and telecommunications equipment for aging command and control, communications (C3), and range elements of the AFSCN to ensure DoD space systems are operationally ready to support the Commanders-in-Chief (CINCs) warfighting requirements.</p> <p>AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&M): AFSCN I&M is an on-going program of replacements and upgrades which will meet HQ USAF validated Air Force Space Command (AFSPC) operational requirements to replace non-standard, unsupported equipment with commercial-off-the-shelf (COTS) hardware and software. This new equipment will reduce AFSPC satellite operations hardware/software (HW/SW) maintenance. The principal efforts within this program are:</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE			
Description (cont.): A. COMMAND & CONTROL SYSTEM UPGRADES (CCSU): The current manpower intensive scheduling system deconflicts and allocates network telemetry, tracking & command (TT&C) assets that support operational space vehicles. Its replacement was to be the Resource Management System (RMS). However, RMS was restructured and descoped to now provide AFSCN resource monitoring and schedule dissemination capability based on an Electronic Schedule Dissemination (ESD) solution. A collision avoidance capability, also originally part of RMS, will now be provided by the Orbit Analysis Subsystem (OAS). Both ESD and OAS are Y2K compliant. COTS HW/SW will be used to the maximum extent possible. FY99 funding procures equipment for additional users to receive the ESD capability. FY00 funding will procure equipment to provide an integrated orbit analysis service follow-on, to include Radio Frequency Interference, additional collision avoidance, and visibility prediction capabilities for space operations. FY01 funding will initiate the Resource Scheduling Capacity Upgrade to replace the operating system and begin to automate scheduling. B. RANGE AND COMMUNICATIONS UPGRADES: These projects will transition the current, costly, point-to-point AFSCN communications network to a distributed communications system that integrates government and commercial networks. Several standardization efforts are being implemented to improve and modernize the communications and ground segment elements of the AFSCN, including: (1) archival recorder systems to replace obsolete, manpower-intensive analog equipment with automated, standardized digital COTS-based systems; (2) Wide Area Network Interface Units (WANIU) which standardize hardware, enable future access to the Defense Information System Network (DISN) global grid, and reduce O&M costs for performing multiplexing functions in the AFSCN; and (3) Operational Switch Replacement (OSR), which will allow for AFSPC's distributed command and control of satellites. AFSCN capacity, reliability, data quality, and user access will be improved.					
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE		
Description (cont.): <p>FY98 funding procured COTS-based development lab equipment for OSR to provide Asynchronous Transfer Mode (ATM) switching capability for the AFSCN, increase capacity, and improve maintainability and sustainability. Funding also procured replacement antenna systems and remote tracking stations(RTS) equipment. Funding also procured a replacement antenna for the Camp Parks, CA Communications Annex; procured system design, installation, and testing of a backhaul communications expansion between Schriever AFB (SAFB) and Onizuka Air Station (OAS) to support BRAC-directed realignment of missions; procured equipment for DISN ATM connectivity; and procured a digital recording system to replace manpower intensive equipment.</p> <p>FY99 funding procures equipment, associated installation, and project management for OSRs at SAFB and OAS. This redundancy will meet AFSPC requirements that specify there shall be no single points of failure and that all missions will not completely realign to a single control node. In addition, DMSP will gain direct access to the RTS with the installation of WANIU, Distributed Command and Control (DCC), and DISN external user connectivity.</p> <p>FY00 funding will procure lab equipment for the Automated RTS Control and Status (C&S) Processor Upgrade which will upgrade the ARTS with an entirely new, open COTS-based architecture and overcome severe memory and processing capacity limitations. Funding will procure the first (of several) replacement antenna, reducing growing maintenance costs and increasing system reliability. Funding will also procure equipment to transition the current Secure Voice system to a Defense Information Systems Agency (DISA) standard Defense Red Switch Network (DRSN) at SAFB, OAS, and all Remote Tracking Stations; and procure equipment for the development of standard protocols for the AFSCN.</p> <p>FY01 funding will procure equipment to replace mission unique communications equipment, increasing AFSCN communications interoperability. Funding will provide for range interoperability between the current AFSCN common user remote ground facilities and other mission unique resources. Funding will procure interface equipment to establish AFSCN DISN external user connectivity for additional</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE		
Description (cont.): external users. Funding will procure the second replacement antenna and will continue the protocol effort. C. SECURITY UPGRADES: These security upgrade projects improve security for assets essential to the assured operational capability of the AFSCN. FY98 funding procures and installs equipment to replace computers in the existing security control system buried-line intrusion detection system on the perimeter of the AFSCN control node at SAFB. FY99 funding replaces the security control system microwave intrusion detection system at the AFSCN Control Node with an infrared detection system, and will procure and install equipment for Defense Satellite Communications System building to interface with the security control system at SAFB. No FY00/01 funding required for security upgrades.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFSCN I&M									
A. COMMAND & CONTROL SYSTEM UPGRADES	A				\$1,400		\$735		\$1,753
B. RANGE AND COMMUNICATIONS UPGRADES	A		\$21,093		\$18,550		\$32,856		\$30,425
C. SECURITY UPGRADES	A		\$1,100		\$3,000				
Totals:			\$22,193		\$22,950		\$33,591		\$32,178
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
AFSCN I & M (1)										
A. COMMAND & CONTROL SYSTEM UPGRADES										
FY99			AFMC/SMC	OPT(2)/CPAF	LMFS, COLORADO SPRINGS, CO	DEC 98	MAR 99			
FY00			AFMC/SMC	C/CPAF	UNKNOWN	DEC 99	MAR 00	N	OCT 99	
FY01			AFMC/SMC	OPT/CPAF	UNKNOWN	DEC 00	MAR 01	N	OCT 00	
B. RANGE AND COMM UPGRADES										
FY98			AFMC/SMC	OPT(3)/CPAF	LOCKHEED MARTIN WESTERN DEV	DEC 97	MAR 98			
					LABS (LMWDL) SUNNYVALE, CA					
FY99			AFMC/SMC	OPT(3)/CPAF	LMWDL SUNNYVALE, CA	DEC 98	MAR 99	N	OCT 98	
FY00			AFMC/SMC	OPT(3)/CPAF	LMWDL SUNNYVALE, CA	DEC 99	MAR 00	N	OCT 99	
FY01			AFMC/SMC	OPT(3)/CPAF	LMWDL SUNNYVALE, CA	DEC 00	MAR 01	N	OCT 00	
C. SECURITY UPGRADES										
FY98			AFMC/SM-ALC	OPT(4)/CPAF	ALLIED SIGNAL, COLO SPRINGS, CO	OCT 97	JAN 98			
FY99			AFMC/SM-ALC	OPT(4)/CPAF	ALLIED SIGNAL, COLO SPRINGS, CO	OCT 98	JAN 99			

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)					DATE: FEBRUARY 1999					
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
REMARKS: 1. Unit costs vary because of different types/configurations of equipment being procured. Additionally, delivery dates reflects first delivery date of multiple deliveries. 2. Option to prior year Lockheed Martin Federal Systems (LMFS), Colorado Springs, CO, May 96 contract. 3. Option to prior year Lockheed Martin Western Development Labs, Sunnyvale, CA, Mar 96 contract. 4. Option to prior year SM-ALC equipment contract for security systems with Allied Signal Corporation, Colorado Springs, CO, Jan 95.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$75,118	\$93,552	\$83,410	\$98,625	\$156,910	\$149,241	\$156,193	\$167,362
<p>Description:</p> <p>The Eastern Range (ER), headquartered at Patrick AFB, FL, and the Western Range (WR), headquartered at Vandenberg AFB, CA, are the nation's Spacelift Ranges. They provide tracking, telemetry, communications, flight analysis, and other capabilities necessary to safely conduct Department of Defense, civil, and commercial spacelift operations, intercontinental and sea-launched ballistic missile operational test and evaluations (T&E), and aeronautical and guided weapons T&E. Many of the current Range Systems assets are outdated, inefficient, and manpower-intensive to operate/maintain. Range instrumentation reliability continues to decrease and many components are obsolete. Replacement of these aging systems is an Air Force Space Command (AFSPC) priority. Accordingly, the Air Force is upgrading the Spacelift Ranges through two closely related efforts. First, the ongoing Range Standardization and Automation (RSA) program will improve operability, reliability, and supportability while reducing operations and maintenance costs. Secondly, the planned Spacelift Range System Contract (SLRSC) will: (1) develop and procure automated fixed instrumentation previously planned for a follow-on RSA contract; (2) engineer and execute recapitalization projects formerly included in the Improvement and Modernization (I&M) program to replace hardware no longer sustainable; and (3) assume integrated systems engineering and sustainment functions as part of the effort to standardize and migrate Spacelift Range sustainment responsibilities from AFSPC to Air Force Materiel Command (AFMC). Following are details of the FY98-01 program:</p> <p>1. RANGE STANDARDIZATION AND AUTOMATION (RSA): The RSA program overhauls and modernizes both the ER and the WR, creating a standardized Spacelift Range System (SLRS). RSA uses remote control and automation techniques to reduce the number of operators, sites and facilities. RSA replaces or eliminates over 25,000 obsolete components. It standardizes equipment and operations between Spacelift Ranges, eliminating reliance upon separate non-standard logistics support and depot maintenance infrastructures. The result is a SLRS</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): reconfigurable from one major operation to another in hours versus days; more efficient identification of operations and maintenance costs; enhanced range safety capability to reduce the risk of destroying a good launch vehicle due to Spacelift Range instrumentation failure; and standardization of operations and logistics support.				
<p>A. RSA PHASE I: The RSA Phase I contract, awarded in Jun 93, upgrades communications and instrumentation systems on the ER and at downrange sites at Antigua and Ascension Islands. It also procures a common telemetry processing system for both Spacelift Ranges. Funding for the Research, Development, Test, and Evaluation (RDT&E) supporting this effort is under Budget Activity 7, Operational Systems Development, in PE 35182F of the Air Force Descriptive Summaries. FY98 funds procured the RSA Phase I supplemental manuals for field technical support and a satellite communications antenna pad. FY99 funds procure RSA Phase I peculiar and common support equipment. FY99 is the final year of the RSA Phase I contract. No FY00/FY01 funding requested.</p> <p>B. RSA PHASE IIA: The RSA Phase IIA contract, awarded in Nov 95, includes integrated RDT&E and the procurement efforts described herein to provide a SLRS as defined by a System Specification and Baseline System Description. It will replace range safety, tracking, telemetry, surveillance, weather, optics, and communications systems. It will also provide consoles and related equipment, local area networks, computers, and software for a new Western Range Operations Control Center (WROCC). The RSA Phase IIA contract includes six Range Delivery Increments (RDI). Incremental delivery of products on the RSA Phase IIA contract will provide an operational capability. The last RDI is projected for operational turnover in 2006. As with RSA Phase I, funding for the associated RDT&E effort is under Budget Activity 7, Operational Systems Development, in PE 35182F of the AF Descriptive Summaries.</p> <p>FY98 funds (Other Procurement Air Force (OPAF))exercised the options of RDI-2. RDI-2 includes the Network Core Product Item, a subsystem composed of the fiber optic infrastructure. It includes separate rings for analog (telemetry) and digital (video, voice, data, and command/destroy) data. Also, RDI-2 includes the Network Management Product Item which monitors the health and status of individual assets within the network to provide real-time control for continuous connectivity. It has an expert system for alarm detection and for fault detection</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): and isolation. FY98 funds also started the Range Safety Processor replacement project, part of a phased, comprehensive safety system upgrade under RDI-3. FY99 funds exercise additional RDI-2 options and an element of RDI-3. The RDI-2 options include elements for network data, voice, and video components. The RDI-3 option to be exercised in FY99 is Global Positioning System (GPS) for metric tracking. It provides equipment and software for the SLRS Global Positioning System Flight Safety metric data acquisition, vehicle position corrections, and satellite constellation integrity checking at both the ER and WR. FY00 funds will exercise selected projects under RDI-3. Among these are the Command Generation system with delivery in FY01, and the Flight Operations and Analysis items which perform range safety analysis functions before, during, and after launches. Also, included is the update and integration of the Centralized Telemetry Processing System into the RSA IIA architecture, which will translate collected telemetry data from the vehicle and disseminate it in a user defined format. Additionally, the RSA IIA program was selected as the only program within the 3080 appropriation, to participate in the Reengineered Supply Support Process (RSSP) pilot program. There are three participants in the 3010 appropriation. Therefore, beginning in FY00, funding from OPAF 'Spares and Repair Parts' (the portion only for RSA IIA spares) P-1 line 114, was moved into the equipment line as a separate sub-line to the equipment. This sub-line funding provides Interim Supply Support (ISS), which includes services and possible initial spares depending on collected failure rates during the interim period, for delivered systems during this interim period. Previous FY01 funds will exercise the remaining projects under RDI-3. These include: Control and Display (C&D) Infrastructure additions; C&D Data Format Updates; C&D Planning and Scheduling Upgrades; C&D Simulation additions; and Data Product Services additions. C&D Infrastructure adds the computer equipment for FOA and Data Product Services. Data Format Update adds the interfaces to allow items delivered under subsequent RDIs to operate. C&D Planning and Scheduling Upgrade adds the ability to automatically establish and manage assets critical to Range Operations. C&D Simulation provides the capability to replay data from prior missions for current mission rehearsal. Data Product Services is a data retrieval, translation and dissemination system for mission data. FY01 funds will also exercise the Station Controller, which provides the ability to remotely automate the Telemetry and Command Electronics packages. As in FY00, the FY01 funds will buy initial spares and supply support for delivered systems as a pilot program under the Reengineered Supply Support Program.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): 2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION (I&M). The I&M program enhances critical systems to maintain adequate capabilities until RSA is implemented; upgrades fielded systems to be compatible with RSA; and continues to improve the Spacelift Ranges as RSA is implemented. To comprehensively manage the range I&M program, the Air Force defines the components/functions of both the ER and WR as an integrated system consisting of three major segments: Instrumentation, Network and Control/Display. The Instrumentation Segment provides range safety and user metric data through the use of launch vehicle telemetry, weather instruments, metrics, optics, and uplink capabilities. Mobile assets are included to provide flexibility in mission support and backup for out-of-service fixed assets. The Network Segment provides the conduit for sending all voice, video, and data to and from remote and local instrumentation sites. This is accomplished through land lines, fiber optics circuits, and radio frequency communications (including microwave and satellites). The Control/Display Segment contains the control centers, hardware, and software required to provide command and control of day-to-day range and launch operations. A. INSTRUMENTATION SEGMENT: FY98 funds procured new equipment to activate the Consolidated Instrumentation Facilities (CIFs) at Cape Canaveral Air Station (CCAS), Antigua, and Ascension Island, and provided initial instrumentation upgrades to improve Multiple Object Tracking Radar (MOTR) capabilities at CCAS. FY99 funds continue replacement of the radar/telemetry site computers (completion delayed due to reprioritization of projects), provide upgrades to the Multiple Object Tracking Radar (MOTR) at CCAS, continue the CIF activation effort, provide continued command capability support for northern launches at Bermuda and Wallops Island, part of reprioritization, and continue replacement of the Meteorological Sounding System with a Global Positioning System based sounding system. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC (see paragraph 4). B. NETWORK SEGMENT: FY98 funds replaced existing analog voice communications systems at CCAS with a Digital Intercom System, and upgraded communications cables. In addition, funds completed the Time Transfer System, provided a site clock monitoring system, and upgraded the Count Distribution System. FY99 funds continued acquisition/installation/integration of the Digital Intercom System, replace				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): additional communications cables at CCAS, initiate acquisition of concentrator switches for the Standard Digital Transport System, and initiate replacement of the Range Tandem switch automatic control facility computer and communication systems. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC (see paragraph 4).				
<p>C. CONTROL & DISPLAY SEGMENT: FY99 funds replaced the obsolete Distributed Range Safety Display Front End Processor (FEP) and master controller at CCAS, provided for continued weather satellite imagery capability by replacing the obsolete Geostationary Orbiting Environment Satellite (GOES) imagery acquisition system, and provide for network monitoring and analysis of the Range Safety/Range Control Systems. These higher priority projects replace the National Aeronautics and Administration (NASA) Lighting Detection and Ranging System. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC(see paragraph 4).</p> <p>3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION (I&M). See paragraph 2 for a general description of the I&M program common to the Eastern and Western Spacelift Ranges and an explanation of the following segments applicable to both ranges.</p> <p>A. INSTRUMENTATION SEGMENT: FY98 projects included upgrades to the back-up telemetry system and an upgrade to the telemetry antenna at the Vandenberg Telemetry Receiving site. FY98 funds also replaced and modernized obsolete telemetry decommutator systems and provided the weather area-life extension of the Central Data Acquisition Processing System to ensure operational support until RSA IIA - RDI 1 deliverables arrive. FY99 projects include modernization of the command transmitter systems to correct documented anomalies, expansion of the ocean surveillance system to meet WR Launch Safety requirements, integration of testing capability to perform operational utilization evaluation of the new Automated Meteorological Profiling System, and standardization of Mobile Telemetry Receiving Station 2. These higher prioritized projects caused the deferral of previously described optics and radar system life extension modifications. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC (see paragraph 4).</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): <p>B. NETWORK SEGMENT: FY98 funds procured a new data transfer system at Vandenberg AFB, CA and Santa Ynez Peak, CA to improve connectivity with the Naval Air Weapons Center; upgraded the Operational Message Switching (OMS) System at Vandenberg AFB; and addressed deficiencies in Vandenberg's communications infrastructure. FY99 funds procure a new Fiber Optics Transmission System (FOTS), Command Transmitter 2 and 3 transmission systems, a command transmitter site communication system, and digital voice communications panels. Also, FY99 funds will upgrade directional and omni antennas at the frequency monitoring station and the operational support measurement facility at Vandenberg AFB. The project to procure new frequency monitoring and radio frequency interference vans was deferred due to reprioritization of programs. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC (see paragraph 4).</p> <p>C. CONTROL & DISPLAY SEGMENT: FY98 funds procured replacement computers, to sustain the Metric Data Processing System at Vandenberg AFB until it is replaced by RSA, and upgraded the data center printer plotters at Vandenberg AFB. FY99 funds procure an advanced weather information processing system for Year 2000 compliance and provide interface for RSA Phase IIA RDI-1 acceptance. These are added projects due to restructuring of the program. No FY00/01 funding is requested. Starting in FY00, I&M projects are replaced by the recapitalization program under AFMC's SLRSC(see paragraph 4).</p> <p>4. SPACELIFT RANGE SYSTEM CONTRACT (SLRSC) RECAPITALIZATION: Starting in FY00, the sustainment responsibility for the Spacelift Ranges will transition from AFSPC to AFMC. To effect this change and satisfy remaining systems development and integration requirements, there will be a new consolidated SLRSC. The SLRSC will: develop and procure automated fixed instrumentation planned for RSA Phase IIB; provide systems integration and engineering functions for all SLRS modernization/sustainment efforts; and normalize Spacelift Range sustainment functions, to include providing recapitalization projects (previously included in the I&M program) to replace obsolete/unsustainable systems.</p> <p>The previously described I&M program is reactive to system failures rather than predicting problems, placing a significant burden on the</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE		
Description (cont.): operators. Accordingly, the AF is transitioning to a proactive recapitalization program for the SLRS. This program will be based upon Reliability, Maintainability and Availability (RMA) data collected on the system and analyzed by AFMC for the best overall return on investment. Because the collection of RMA data to fully support this approach will occur in FY00/01, the FY00/01 recapitalization effort will focus on I&M projects already underway or previously validated. FY00 funds will continue: sustainment of the Argentia, Newfoundland command transmitter by replacing aging equipment and resolving single point of failure architecture; activation of the CIF to provide needed capabilities until SLRSC delivers automated downrange instrumentation; procurement and integration of radar and telemetry site computers no longer supportable; procurement and integration of a digital replacement for the unsupportable analog phone system; and, procurement and integration of systems to extend access to the RSA I Cape Fiber Optic Network (CFON) nodes to critical Range facilities. Also, FY00 funds will complete test and certification of the Geostationary Orbiting Environment Satellite (GOES) imagery converters, begin replacement of launch and orbital real-time processors, and transition to a GPS-based meteorological sounding system. FY01 funds will: continue CIF activation; continue integration and begin test and certification of the digital intercom system; continue installation and integration and begin testing and certification of the access extension of RSA I CFON nodes and the radar telemetry site computers; and continue replacement of launch and orbital real time processors and transition to a GPS-based sounding system.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. RANGE STANDARDIZATION & AUTOMATION (RSA)				{47329}			{60728}			{59799}			{75098}
A. RSA PHASE I	A			1,561			561						
B. RSA PHASE IIA	A			45,768			60,167			56,118			71,931
B.1 INTERIM SUPPLY SUPPORT (ISS)										3,681			3,167
2. EASTERN RANGE I&M				{17490}			{15731}						
A. INSTRUMENTATION SEGMENT	A			1,470			3,625						
B. NETWORK SEGMENT	A			16,020			11,531						
C. CONTROL & DISPLAY SEGMENT	A						575						
3. WESTERN RANGE I&M				{10299}			{17093}						
A. INSTRUMENTATION SEGMENT	A			1,019			6,404						
B. NETWORK SEGMENT	A			6,114			10,219						
C. CONTROL & DISPLAY SEGMENT	A			3,166			470						
4. SPACELIFT RANGE SYSTEM CONTRACT (SLRSC) RECAPITALIZATION	A									23,611			23,527
TOTALS:				75,118			93,552			83,410			98,625
REMARKS:													
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M SPACE								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M 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. RANGE STANDARDIZATION & AUTOMATION (RSA) (1) (2)										
A. RSA PHASE I										
FY98			AFMC/SMC	OPT/CPAF	HARRIS CORP, MELBOURNE, FL (3)	DEC 97	FEB 98			
FY99			AFMC/SMC	OPT/CPAF	HARRIS CORP, MELBOURNE, FL (3)	DEC 98	FEB 99			
B. RSA PHASE IIA (4)										
FY98			AFMC/SMC	OPT/CPAF	LOCKHEED MARTIN, SUNNYVALE, CA	DEC 98	FEB 99			
				/CPFF						
FY99			AFMC/SMC	OPT/CPAF	LOCKHEED MARTIN, SUNNYVALE, CA	DEC 99	FEB 00			
				/CPFF						
FY00			AFMC/SMC	OPT/CPAF	LOCKHEED MARTIN, SUNNYVALE, CA	DEC 00	FEB 01	Y		
				/CPFF						
FY01			AFMC/SMC	OPT/CPAF	LOCKHEED MARTIN, SUNNYVALE, CA	DEC 01	FEB 02	Y		
				/CPFF						
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M 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	
2. EASTERN RANGE (I&M) (1) (2)										
A. INSTRUMENTATION SEGMENT										
FY98			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 98	MAR 98			
FY99			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 99	MAR 99			
B. NETWORK SEGMENT										
FY98			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 98	MAR 98			
FY99			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 99	MAR 99			
C. CONTROL/DISPLAY SEGMENT										
FY99			HQ AFSPC	C/FP	MULTIPLE (5)	FEB 99	APR 99			
3. WESTERN RANGE (I&M) (1) (2)										
A. INSTRUMENTATION SEGMENT										
FY98			HQ AFSPC	C/FP	MULTIPLE (5)	DEC 97	FEB 98			
FY99			HQ AFSPC	C/FP	MULTIPLE (5)	DEC 98	FEB 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M 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	
B. NETWORK SEGMENT										
FY98			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 98	MAR 98			
FY99			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 99	MAR 99			
C. CONTROL/DISPLAY SEGMENT										
FY98			HQ AFSPC	C/FP	MULTIPLE (5)	JAN 98	MAR 98			
4. SPACELIFT RANGE SYSTEMS CONTRACT(SLRSC) RECAPITULATION										
FY00			AFMC/SMC	C/CPAF(6)	UNKNOWN	FEB 00	APR 00	N	JUL 99	
				/CPFF						
FY01			AFMC/SMC	OPT/CPAF(6)	UNKNOWN	DEC 00	FEB 01	N	JUL 99	
				/CPFF						
REMARKS: 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. 2. Multiple contract awards and delivery dates, above award/delivery dates reflect the first contract award and delivery date. 3. Option to competitive FY93 cost plus award fee contract to Harris Corp in Jun 93.										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999				
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: EASTERN/WESTERN RANGE I&M 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. The RSA phase IIA contract was competitively awarded in FY96 to Lockheed Martin, Sunnyvale, CA (with hardware procurement options for six years) to provide a system-wide range architecture; replace imaging, surveillance, weather, optics, range communications, and mobile systems at both ranges; upgrade the western range communications system; and, equip the western range operations control center. Integration and interim contractor support activities will carry the contract through FY06. The contract has multiple options for various related product items, and therefore has cost plus award fee (CPAF) affecting part of the contract, while cost plus fixed fee (CPFF) affects another part of the contract.</p> <p>5. I&M procurement will consist of numerous individual components to upgrade obsolete and worn out equipment currently in use until replaced by RSA or for use with RSA. Components are integrated by the range contractor (Computer Sciences/Raytheon at Cape Canaveral Air Station FL or ITT Federal Systems at Vandenberg AFB CA). Contractors are typically: General Electric/RCA, Raytheon, Datron, Control Data Corp, Gould Sel Systems, Collins, Hewlett-Packard, Teledyne, Varian and several small businesses located at or near Vandenberg AFB CA or Cape Canaveral Air Station, FL.</p> <p>6. Anticipate this contract will be similar to that for RSA phase IIA, which contains multiple options for various related product items. Therefore cost plus award fee (CPAF) will affect part of the contract, while cost plus fixed fee (CPFF) will affect another part of the contract.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: MILSATCOM SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$17,819	\$27,383	\$46,257	\$36,148	\$38,172	\$43,731	\$60,741	\$48,578
<p>Description:</p> <p>MILSATCOM is a set of joint service satellite communications systems that provides a broad range of satellite communication capabilities to include secure, jam-resistant, 24-hour, worldwide communications to meet essential strategic, tactical, and general purpose operational requirements for high-priority military users. The equipment supports validated communication requirements for the National Command Authorities (NCA), Unified and Specified Commanders-in-Chief (CINC), services and agencies.</p> <p>1. COMMAND POST TERMINALS: The Air Force is responsible for the procurement of Command Post Terminals (CPTs) support communications at major NCA and CINC command centers, as well as the relay of warning data from sensor sites. Prior year funding procured 59 ground terminals (9 fixed extremely high frequency/ultra high frequency (EHF/UHF), 28 fixed EHF-only, six transportable EHF/UHF, seven transportable EHF-only, two EHF/UHF platform sets, and seven EHF-only platform sets). FY98 funds continued factory repair, system engineering, and program support. FY99/00/01 funds will provide installation support, factory repair, system engineering and program support. Additionally, FY00/01 funds will provide terminal enhancements.</p> <p>2. SINGLE CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS: SCAMP is a single channel, 38-pound portable tactical terminal designed for use with multiple Milstar EHF systems. It is capable of transmitting/receiving low data rate (LDR) voice, data and facsimiles. The Air Force procurement of SCAMP supports HQ US Strategic Command (USSTRATCOM) and Air Force Special Operations Command (AFSOC) communications requirements. FY99 funds provide integration and install. Additionally, FY98-01 funds provide program support.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: MILSATCOM SPACE		
Description (cont.): 3. SECURE, MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T): SMART-T is a multi-channel tactical communications platform being designed by the US Army for use with Milstar EHF. It is capable of transmitting/receiving LDR and medium data rate (MDR) voice, data and facsimiles. The Air Force procurement of SMART-T supports Air Force Space Command (AFSPC), Air Intelligence Agency (AIA), Air Mobility Command (AMC), Pacific Air Forces (PACAF) and US Air Forces Europe (USAFE) communications requirements. FY98 funds provided for integration, install and program support to ensure AF requirements were met prior to full scale production of the Army contract (Army Limited Production Decision was Dec 98). FY99-01 funds will procure 20, 26, and 18 additional terminals, respectively, out of a total planned procurement of 73 with associated installation support, and program support . 4. SCAMP/GWEN: The Ground Wave Emergency Network (GWEN) provides minimum essential communications to USSTRATCOM-assigned units for emergency action message dissemination. Congress directed the GWEN system not be maintained; upgraded Milstar SCAMP terminals will replace that connectivity at the GWEN sites. FY99 funds provide equipment and program and engineering support. FY00/01 funds and integrates SCAMP terminals at 14 and 1 fixed sites, respectively. FY00/01 also provides program support for completion of integration and installation of ancillary equipment. 5. ULTRA HIGH FREQUENCY (UHF) SATELLITE COMMUNICATIONS (SATCOM): Increasing requirements for UHF satellite capacity, coupled with limited channel capacity, led the Joint Staff to mandate new UHF interoperability standards which are designed to improve satellite access and efficiency by utilizing Demand Assigned Multiple Access (DAMA) techniques. a. NETWORK CONTROL SYSTEM (NCS): To satisfy a Joint Chiefs of Staff (JCS) mandate to implement DAMA on 5 Kilohertz (KHZ) and 25 KHZ UHF communications channels, the Air Force procured four network controllers to field an initial system capable of controlling five channels of 5 KHZ DAMA and two channels at 25 KHZ DAMA at four sites worldwide. FY98 funds provided terminal enhancements. Additionally, FY98/99 funding provide program support for the four network control system sites. No FY00/01 funding requested.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
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Description (cont.): b. GROUND TERMINALS: The Air Force is procuring DAMA capable Enhanced Manpack UHF Terminals (EMUT) and installation equipment (e.g., power supplies, vehicle mounts, antennas, power adapters and input/output devices) to support AFSOC, AMC, Air Combat Command (ACC), and other users in response to the JCS mandate to implement DAMA for UHF satellite access. FY98 procured 204 Multiband Multimission Radios (MBMMR) and associated program support for AFSOC. FY99 funded nine Airborne Integrated Terminal Group (AITGs) and associated engineering and program support for fixed sites for US Central Command, White House Communications Agency and JSTARS to provide compatibility with airborne platform AITGs. FY00 funds 210 DAMA terminals, system engineering and program support to include integration and installations. FY01 funds 223 DAMA terminals, system engineering and program support to include integration and installs. Total DAMA terminal requirement is 1363 terminals. 6. SUPER HIGH FREQUENCY (SHF) TERMINAL: SHF terminals, operating over the Defense Satellite Communications System (DSCS), support the command and control requirements of unified and specified CINCs, and the connectivity requirements of the National Command Authorities (NCA), US strategic and tactical forces and NATO. The Air Force has responsibility for selected locations which help comprise the ground segment. a. GROUND MOBILE FORCES SATELLITE COMMUNICATIONS (GMFSC): GMFSC provides survivable, jam resistant communications for rapid tactical and crisis/contingency operations. Terminals support the Theater Air Control System, Expeditionary Air Forces, and NCA/JCS directed operations. FY98/99 funding provided program support for this equipment. No FY00/01 funding requested. b. DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS)/JAM RESISTANT SECURE COMMUNICATIONS (JRSC): The JRSC network is a subnet of the DSCS. It provides jam resistant, secure, nuclear effects protected MILSATCOM connectivity between selected Air Force facilities and elements of the NCA. This equipment has the ability to either stabilize or maximize the data throughput for critical				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: MILSATCOM SPACE		
Description (cont.): communications lines. FY98-01 funding provides program support and procures equipment for installation efforts supporting the upgrade of the DSCS and JRSC network, to include sensor sites and DSCS hub stations. The specific equipment being procured includes: Heavy/medium ground terminal modernization kits, fiber optic modems, patch panels, timing sources, and interconnect facility links. c. SINGLE CHANNEL TRANSPONDER INJECTION SYSTEM (SCTIS): SCTIS provides Emergency Action Message (EAM) and Force Direction Message (FDM) dissemination capability to selected command centers and force elements for the control of nuclear forces. FY98/99 funding provided program support to upgrade the 12 SCTIS systems at nine sites. No FY00/01 funding requested. 7 GLOBAL BROADCAST SERVICE (GBS): GBS is a joint program to implement a world-wide, high capacity satellite broadcast information system that will provide a continuous, high speed, one-way flow of high volume classified and unclassified data, imagery and other information to forces in garrison, deployed, or on the move. FY00/01 funding provides 49 ground receive suites per year.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: MILSATCOM SPACE						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. COMMAND POST TERMINALS				{2555}			{3716}			{4328}			{5864}
TERMINAL ENHANCEMENTS	A			0				VAR	N/A	2,400	VAR	N/A	3,961
INSTALLATION SUPPORT							300			300			200
FACTORY REPAIR				8			800			500			250
SYSTEM ENGINEERING				63			337			820			853
PROGRAM SUPPORT				2,484			2,279			308			600
2 SCAMP TERMINALS				{346}			{655}			{321}			{101}
INTEGRATION AND INSTALL							455						
PROGRAM SUPPORT				346			200			321			101
3. SMART-T				{326}			{12608}			{15712}			{10720}
TERMINALS	A				20	460,000	9,200	26	463,000	12,038	18	494,000	8,892
INTEGRATION AND INSTALL				9			2,325			2,215			814
PROGRAM SUPPORT				317			1,083			1,459			1,014
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: MILSATCOM SPACE						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. SCAMP/GWEN							{2394}			{6262}			{475}
TERMINALS								14	180,000	2,520	1	180,000	180
INTEGRATION & INSTALLS										3,108			242
EQUIPMENT (I/O DEVICES)	A						616						
SUPPORT ENGINEERING							1,395						
PROGRAM SUPPORT							383			634			53
5. UHF DAMA SATCOM TER				{7953}			{4572}			{8914}			{9720}
A. NETWORK CONTROL SYS				{963}			{271}						
TERMINAL ENHANCEMENTS				753									
PROGRAM SUPPORT				210			271						
B. GROUND TERMINALS				{6990}			{4301}			{8914}			{9720}
DAMA GROUND RADIOS	A							210	37,000	7,770	223	37,000	8,251
MBMMR	A	204	25,000	5,100									
PROGRAM SUPPORT				1,890			1,129			1,012			1,023
TERMINAL UPGRADES						9	288,425	2,596					
SYSTEM ENGINEERING								576		132			446

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						P-1 NOMENCLATURE: MILSATCOM SPACE							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
6. SHF TERM (JRSC)				{6639}			{3438}			{3520}			{1881}
A. GMFSC				{63}			{61}						
PROGRAM SUPPORT				63			61						
B. DSCS/JRSC				{6513}			{3316}			{3520}			{1881}
DSCS/JRSC INTERCONNECT FACILITY LINKS	A			4,769			82			2,981			1,502
PROGRAM SUPPORT				1,744			991			539			379
TERMINAL MODERNIZATION/INSTALLATION	A						2,243						
C. SCTIS				{63}			{61}						
PROGRAM SUPPORT				63			61						
7. GBS										{7200}			{7387}
GBS RECEIVER SUITES	A							49	146,939	7,200	49	150,750	7,387
TOTALS:				17,819			27,383			46,257			36,148
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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. COMMAND POST TERMINAL ENHANCEMENTS (1) (3)										
TERMINAL ENHANCEMENT										
FY99			AFMC/ESC	OPT(2)/FFP	RAYTHEON, MARLBOROUGH, MA	FEB 99	APR 99	Y		
					ROCKWELL, RICHARDSON, TX					
FY00			AFMC/ESC	OPT(2)/FFP	RAYTHEON, MARLBOROUGH, MA	FEB 00	APR 00	Y		
					ROCKWELL, RICHARDSON, TX					
FY01			AFMC/ESC	OPT(2)/FFP	RAYTHEON, MARLBOROUGH, MA	FEB 01	APR 01	Y		
					ROCKWELL, RICHARDSON, TX					
3. SMART-T										
FY99	20	460,000	AFMC/ESC	MIPR/OPT(4)/FFP	ARMY/RAYTHEON, MARLBORO, MA (4A)	JAN 99	JUL 00			
FY00	26	463,000	AFMC/ESC	MIPR/OPT(4)/FFP	ARMY/RAYTHEON, MARLBORO, MA (4A)	FEB 00	OCT 02	Y		
FY01	18	494,000	AFMC/ESC	MIPR/OPT(4)/FFP	ARMY/RAYTHEON, MARLBORO, MA (4A)	FEB 01	JUN 03	Y		
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: 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
6. SHF TERMINALS (JRSC)									
B. DSCS/JRSC INTERCONNECT FACILITY LINK (1)									
FY98			AFMC/ESC	MIPR/C/FFP	GSA & ARMY/CECOM HARRIS/MELBOURNE, FL	JUL 98	OCT 98		
FY99			AFMC/ESC	MIPR/C/FFP	MULTIPLE (7)	DEC 98	FEB 99	Y	
FY00			AFMC/ESC	MIPR/C/FFP	MULTIPLE (7)	DEC 99	FEB 00	Y	
FY01			AFMC/ESC	MIPR/C/FFP	MULTIPLE (7)	DEC 00	FEB 01	Y	
7. GBS RECEIVE SUITES									
FY00	49	146,939	AFMC/SMC	OPT(8)/CPAF	RAYTHEON, RESTON, VA	FEB 00	NOV 00	Y	
FY01	49	150,750	AFMC/ESC	OPT(8)/CPAF	RAYTHEON, RESTON, VA	DEC 00	FEB 01	Y	

REMARKS:

1. Quantities and unit costs vary because several different types of equipment or multiple types of equipment are being procured.
2. Option to basic command post terminal contract awarded May 93.
3. Multiple award and delivery dates to be awarded to existing contracts, award/delivery dates reflect first award and delivery dates.
4. Air Force procurement on Army contract(s) awarded Feb 96.
- 4a. Date for first delivery represents date that item is first released to the Air Force from a multi-customer production line.
5. Air Force procurement on Army contract(s) awarded Apr 94/Feb 98.
6. Option to basic contract, awarded Apr 98.
7. GSA/Army contracts with multiple contractors and multiple contract award/delivery dates, award/delivery dates reflect first award and delivery dates.
8. Option to basic contract, awarded Nov 97.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: SPACE MODS SPACE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$18,831	\$7,897	\$2,835	\$15,199	\$22,469	\$12,270	\$10,697	\$10,787
<p>Description:</p> <p>Permanent modifications are configuration changes to in-service systems and equipment which correct materiel or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for Space equipment and systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY98-01 are ongoing or new for the following systems: Defense Meteorological Satellite Program (DMSP), Defense Support Program (DSP), NAVSTAR Global Positioning System (GPS), 474N Sea Launched Ballistic Missile (SLBM), and 496L Spacetrack Network.</p> <p>1. DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP): DMSP is a joint service program with the mission to collect and disseminate specialized meteorological, oceanographic and solar-geophysical data to support worldwide DoD operations and high priority programs. The three major components in the DMSP system are the space segment, command, control and communications (C3) segment and the users segment. The modifications will provide equipment to enable the receipt, processing, and storage of 5D-3 sensor data to the 55th Space Weather Squadron within 120 minutes or less. This squadron requires the data within this timeframe in order to support its extensive list of priority customers.</p> <p>A. MOD# T7191, Data Ingest Processing (DIPS): No FY00/01 funding requested.</p> <p>B. Miscellaneous Low Cost Mods: No FY00/01 funding requested.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: SPACE MODS SPACE		
Description (cont.): 2. DEFENSE SUPPORT PROGRAM (DSP): DSP provides a space-based surveillance system to detect and report missile and space launches and nuclear detonations in near real time during pre-trans and post-attack periods. DSP's primary mission is to provide tactical warning and limited attack assessment of a ballistic missile attack. DSP also detects and reports nuclear detonation events and provides information for theater warning and exploitation. Miscellaneous Low Cost Mods (ground stations only): No FY00/01 funding requested. 3. NAVSTAR GLOBAL POSITIONING SYSTEM (GPS): NAVSTAR GPS is a space-based radio navigation, time distribution, and nuclear detonation (NUDET) detection system (NDS). The GPS mission is to provide highly accurate position, velocity, timing, and NUDET information to properly equipped air, land, sea, and space-based users worldwide. The GPS system consists of four elements: the Space Segment (SS), the Operational Control Segment (OCS), the Navigation User Segment (NUS), and the NDS Segment. The OCS and NDS segments require modifications to replace high failure rate parts and preclude system operational degradation. Without these modifications, inaccurate navigation data will be transmitted to worldwide users, resulting in potential loss of life and/or operational equipment, including multi-million dollar satellites. A. MOD #30724B, Station Computer System Replacement (SCSR): No FY00/01 funding requested. B. MOD #30726, Telemetry/Pseudo Random Noise (PRN) Ranging Upgrade: No FY00/01 funding requested. C. MOD #S605133, Operational Support Environment (OSE) (previously Weapon Support System): This modifies the Weapon Support System (WSS) environment to be compatible with the new Control Segment architecture and is required to maintain the existing WSS mission as the support environment for the Control Segment and includes support for the GPS High Fidelity System Simulator (HFSS). It also integrates				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: SPACE MODS SPACE			
Description (cont.): the new architecture capabilities with the existing legacy system capabilities in FY98 and provides disposal of obsolete systems at the end of FY99. D. MOD #T7215 Automated Antenna PositionMonitor (AAPM): The AAPM consists of a data collection and logging module attached to the Ground Antenna (GA) pedestal unit, monitors the GA drive system, and provides real-time trend data for failure prediction and mechanical performance monitoring. The existing GAs are beyond their design life and current maintenance relays on expensive site surveys to diagnose problems and impending failure. No FY00 funds requested. FY01 funds will procure and install one kit and required software. E. Miscellaneous Low Cost Modifications: No FY00/01 funding required. 4. 474N SEA LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM: The 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 (Phased Array Radars for SLBM Detection and Warning System). The primary mission is to provide the Cheyenne Mountain Complex (CMC) 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 Surveillance Network by providing space vehicle surveillance, tracking and identification as required by the Space Surveillance Center and the Joint Space Intelligence Center. The sensors have an operational availability requirement of 98 percent. 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 AFB, ND. 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. It is a one-of-a-kind system originally developed in the early 1970s, and has operated continuously without significant upgrade since 1974. PARCS employs 128 traveling wave tubes (TWTs) in support of its mission. Approximately 48 of these tubes are consumed annually. The repair cost of these TWTs has increased from \$74K to \$180K each. No FY00 funds requested.					
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: SPACE MODS SPACE		
Description (cont.): A. MOD #P7302, PARCS Improved Transmitter Monitoring System: FY01 funds will improve the Transmitter Monitoring System which will allow the site maintainers to log faults for trend analysis and detect failing components that can destroy TWTs. If not funded, high maintenance costs will continue. B. MOD #S32492, PARCS Display Upgrade: FY01 also funds Modification S532492, which replaces unsupportable and unreliable display subsystem equipment. This equipment is composed of unique custom built components which were obsolete in the early 1980s. Parts for this equipment are no longer available. Site operations have continued through cannibalization from spares and training consoles. This subsystem has been shown to have a Mean Time Between Failure of 79 hours with a Mean Time To Repair (MTTR) of 150 minutes. When cannibalization is no longer an option, the MTTR is expected to jump exponentially. Since some of the consoles exert active control over the system, failure to upgrade increases the risk of catastrophic failure of the radar system. C. MOD #P7258, PARCS Dispersive Delay Lines: No FY00/01 funding requested. D. Miscellaneous Low Cost Mods: No FY00/01 funding requested. 5. 496L SPACETRACK NETWORK: The Spacetrack Network is comprised of the AN/FPS-85 Phased Array Radar (Eglin) and the AN/FSQ-114 Ground-based Electro-Optical Deep Space Surveillance System (GEODSS) Optical Sensor System. The SPACETRACK system provides data on near-earth and deep space objects, which constantly updates the Cheyenne Mountain Complex (CMC) satellite catalog and performs critical early warning and tracking of potential threats to North America, and assessment and characterization of potential atmospheric, ballistic missile and space attacks.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: SPACE MODS SPACE		
Description (cont.): A. Mod #19303B, Egin Transmitter Module Upgrade: No FY00/01 funding requested. B. AN/FSQ-114 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM: The primary mission of GEODSS is to provide the Space Surveillance Center (SSC) with observational (metric) data on deep-space satellites and optical characteristics information as tasked by the Combined Space Intelligence Center. GEODSS also supports command mission responsibilities for cataloging and maintenance of deep-space satellite payloads and debris, New Foreign Launch (NFL) orbit determination and mission assessment, as well as collision avoidance taskings. (1) Mod #39709B, GEODSS Modernization Program: No FY00/01 funding requested. (2) Mod # TBD, GEODSS CCD Camera/MPACS: FY01 funding requested. See corresponding P-3A for a detailed description.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: SPACE MODS SPACE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP)					\${289}					
A. DATA INGEST PROCESSING (DIPS) MOD #T7191					\$200					
B. MISCELLANEOUS LOW COST MODS					\$89					
2. DEFENSE SUPPORT PROGRAM (DSP)					\${114}					
MISCELLANEOUS LOW COST MODS					\$114					
3. NAVSTAR GLOBAL POSITIONING SYSTEM (GPS)			\${9224}		\${6581}		\${2835}		\${2267}	
A. STATION COMPUTER SYSTEM REPLACEMENT (SCSR) MOD #30724B			\$4301							
B. TELEMETRY/PRN RANGING UPGRADE MOD #30726			\$3460		\$2600					
C. OPERATIONAL SUPPORT ENVIRONMENT (OSE) (PREVIOUSLY WEAPON SUPPORT SYSTEM (WSS) MOD #S605133			\$1463		\$3918		\$2,835			
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: SPACE MODS SPACE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
D. AUTOMATED ANTENNA POSITION MONITOR (AAPM) MOD #T7215									\$2,267
E. MISCELLANEOUS LOW COST MODS					\$63				
4. 474N SEA LAUNCHED BALLISTIC MISSILE (SLBM), DETECTION AND WARNING SYSTEM			\${3115}		\${195}				\${3769}
A. PARCS IMPROVED TRANSMITTER MONITORING SYSTEM MOD #P7302									\$1,207
B. PARCS DISPLAY UPGRADE MOD #S32492									\$2,562
C. PARCS DISPERSIVE DELAY LINES MOD #P7258			\$1,665		\$95				
D. MISCELLANEOUS LOW COST MODS			\$1,450		\$100				
5. SPACETRACK NETWORK			\${6492}		\${718}				\${9163}
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INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A) **DATE: FEBRUARY 1999**

Modification Title and No: Ground-Based Electro-Optical Sensor System (GEODSS), **Models of Systems Affected:** AN/FSQ-114
Description/Justification: GEODSS is a segment of the SPACETRACK network, which provides metric track data, deep Space Object Identification (SOI), and visible light photometry data to the Cheyenne Mountain Complex (CMC). GEODSS supports command mission responsibilities for cataloging and maintenance of deep-space satellite payloads, debris, New Foreign Launch orbit determination and collision avoidance. Funds provide for production, integration, testing and fielding of 10 Charge Coupled Device (CCD) cameras, which replace Ebsicon tubes that are no longer manufactured or supported by any vendor. Funds also provide for Sensor Controller hardware and software modifications, and Modular Precision Angular Control Systems (MPACS) replacement, critical to the CCD modification. FY01/02 procures 9 of 10 camera kits; three are planned for FY02 installation. The CCD cameras will ensure GEODSS capability to meet **Development Status/Major Development Milestones:** Contract Awd: Dec 00; DT&E: Feb 02; OT&E Jun 02; IOC: Jul 02.

Financial Plan \$ (in Millions)	PY		FY1998		FY1999		FY2000		FY2001		FY2002		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:													0	
Procurement:														
Equipment Kits									3	4.370	6	6.800	9	11.2
Equipment Kits Non-recurring										1.800		0.300	0	2.1
Engineering Change Orders													0	
Data										0.700			0	0.7
Training Equipment													0	
Support Equipment										0.200			0	0.2
Software										0.530			0	0.5
Interim Contractor Support													0	
Other										1.563		.960	0	2.5
Total Procurement Costs:	0		0		0		0		3	9.2	6	8.1	9	17.2
Hardware Installation:														
(PY) Eqpt (Kits)													0	0
(FY98) Eqpt (Kits)													0	0
(FY99) Eqpt (Kits)													0	0
(FY00) Eqpt (Kits)													0	0
(FY01) Eqpt (3 Kits)												3	.800	0.8
(FY02) Eqpt (6 Kits)													0	0
Total Installation Costs:	0		0		0		0		0		3	0.8	3	0.8
Total Modification Costs:	0		0		0		0		3	9.2	6	8.9	9	18

Method of Installation: CONTRACTOR, FIELD INSTALL **Administrative Lead-time (After 1 Oct):** 2 Month(s) **Production Lead-time:** 14 Month(s)

Contract Date: PY FY1998 FY1999 FY2000 FY2001 DEC 00 FY2002 DEC 01

Delivery Date: PY FY1998 FY1999 FY2000 FY2001 FY2002 FEB 02

Installations:	PY	FY1998				FY1999				FY2000				FY2001				FY2002				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input																						3
Output																						3

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$30,780	\$27,077	\$49,710	\$110,337	\$101,589	\$150,781	\$171,755	\$131,166
<p>Description:</p> <p>The Tactical Communications-Electronics (C-E) Equipment procurement program acquires essential command, control, communications and computer (C4) systems to satisfy requirements for Pacific Air Forces (PACAF), United States Air Forces Europe (USAFE), Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), Air Combat Command (ACC), Air Force Reserves (AFR) and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in our Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment that will support US flying operations worldwide.</p> <p>1. PACER SPEAK (AN/GRC-206) UPGRADE: Pacer Speak is a pallet of radios mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV) which is used primarily by the ACC Theater Air Control Parties (TACPs) and AFSOC Special Tactics Teams (STTs). Both types of units deploy with the Army's maneuver units and provide the command and control link for Close Air Support (CAS), airlift, and reconnaissance. The current Pacer Speak system configuration operates in several frequency bands including: High Frequency (HF), Very High Frequency/Amplitude Modulation (VHF/AM), and Ultra High Frequency/Amplitude Modulation (UHF/AM) utilizing the HAVE QUICK waveforms. A (V)5 upgrade to Pacer Speak started in FY94 with a requirement of 865 systems. The (V)5 upgrade replaced the single channel VHF radio with the VHF antijam frequency hopping radio used by Army maneuver units. The (V)5 upgrade acquisition strategy was changed due to funding considerations with only 400 (V)5 units having been procured. FY98 funds procured the remaining 465 units with (V)3+ upgrades. The (V)3+ configurations provide TACPs with minimum Single Channel Ground and Airborne Radio System (SINCGARS) interoperability with the Army. No FY00/01 funding is requested.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT		
Description (cont.): 2. THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: The TDC program, which replaces the Tri-service Tactical Communications (TRI-TAC) system, provides telephone/computer networks, and message service to deploying Air Force and joint units. TDC supports a wide range of mission areas and users including: Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), Air Force Special Operation Command (AFSOC), Air National Guard (ANG), and the Air Force Reserves (AFR). For both AMC and AFSOC, TDC provides new combat capability not previously available which is now required to support the Air Expeditionary Force. In addition, TDC is capable of supporting joint operations through its link into the joint tactical communications architecture. TDC is also critical to the successful implementation of the Global Broadcast Service (GBS) to disseminate timely intelligence information to the warfighter. TDC will support the ground dissemination of (GBS) information. TDC is composed of three components: the Lightweight Multiband Satellite Terminal (LMST), the Integrated Communications Access Packages (ICAP), and Network Management System/Base Information Protection (NMS/BIP). Together these three systems provide the communications infrastructure in deployed base environments. TDC connects all users, both at the base level and back to the national command authorities using various C4 and intelligence (C4I) applications and the Tactical Internet. TDC equips Wing Initial Communication Packages (WICPs), Air Operations Centers (AOC), Air Support Operations Centers (ASOCs) and Control Reporting Centers/Elements (CRCs/CREs). TDC is modular and adaptable--capable of supporting the war effort from day one to the buildup of a sustaining base. a. LIGHTWEIGHT MULTIBAND SATELLITE TERMINALS (LMSTs): LMSTs augment the existing X-Band tactical satellite terminals. LMSTs provide a significant increase in capability, capable of leveraging not only the military X-band satellite channels, but also the C- and Ku-bands available on commercial communications satellites. This alleviates many operational problems, since the military X-band channels are nearing capacity. LMSTs are a critical link providing the two-way communications connectivity between the deployed base and command authorities at other locations. 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 total inventory objective is 85 systems. FY98-01 funds continue procurement of LMSTs.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT		
Description (cont.): b. INTEGRATED COMMUNICATIONS ACCESS PACKAGES (ICAP): ICAP provides modular and scaleable packages of routers, switches, multiplexers and network management systems, forming the communications backbone for a deployed base. Users will plug-in their computer, telephones, and faxes into the backbone the ICAP supplies. ICAP provides significant advantages over TRI-TAC in the areas of bandwidth efficiency, adaptability, and airlift. ICAP employs "smart multiplexers" allowing sequencing of several messages over a single line, versus the multiple dedicated lines used in TRI-TAC. Additionally, ICAP packages come in ten configurations varying in sizing/composition based on application. This allows for greater flexibility to meet different contingency operations. For example, the Wing Initial Communication Package 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 Air Operation Center package. The TRI-TAC system lacked this flexibility, requiring a large portion of the system (six-seven C-130 loads) to be in place before the system became operational. The ICAP total inventory objective changed from 142 to 117 systems due to force structure and mission changes. FY98-01 funds continue procurement of ICAP. c. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROTECTION (NMS/BIP): NMS/BIP provides the same network management/information protection capabilities for deployed operations as 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. The total requirement is for 116 systems. This functional system was formerly an integral part of the ICAP suite; however, the effort has been separated for better management oversight. FY99 begins funding for NMS/BIP. 3. TACTICAL AIR CONTROL PARTY (TACP) MODERNIZATION : The TACP Modernization Program is designed to enhance the ability of TACPs to interface with joint and multinational forces by replacing aging communications and information systems equipment utilized by Air Combat Command (ACC) TACPs and Air Force Special Operations Command (AFSOC) Special Tactics Teams (STT's). Both types of units deploy with Army maneuver units and provide the command and control link for Close Air Support (CAS), airlift, and reconnaissance. TACP				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT		
Description (cont.): Modernization provides data capabilities, process automation, and integrated capabilities to improve operational effectiveness. The TACP Modernization Program consists of four components: (1) laser range-finders (with GPS and computer interface) which provide target location and observation devices to help reduce the incident of fratricide, (2) computer terminals for displaying situational awareness imagery and messages, (3) multiple waveform manportable radios (manpacks) to replace the three different manpacks now in use that only operate in a single waveform, and, (4) vehicle-mounted communications systems. TACP Modernization remedies joint/combined interoperability, inaccurate targeting, no automation, limited situational awareness, and, size and weight concerns. FY00/01 funding begins procurement for three components of the TACP modernization program.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999				
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
1. PACER SPEAK UPGRADES				{3530}										
A. (V) 3+ UPGRADES	A	465	7,591	3,530										
2. TDC PROGRAM				{27250}			{27077}			{36401}			{88168}	
A. LMST	A	4	1,250,000	5,000	7	1,250,000	8,750	6	1,250,000	7,500	18	1,250,000	22,500	
B. ICAP	A	4		22,250	10		13,327	7		25,401	20		55,668	
C. NMS/BIP	A				10	500,000	5,000	7	500,000	3,500	20	500,000	10,000	
3. TACP MODERNIZATION										{13309}			{22169}	
A. LASER RANGE FINDERS	A										51	39,000	1,995	
B. COMPUTER TERMINALS	A							221	18,221	4,027	335	18,221	6,104	
C. MANPACK RADIOS	A							221	42,000	9,282	335	42,000	14,070	
TOTALS:				30,780			27,077			49,710			110,337	
REMARKS:														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. PACER SPEAK UPGRADES										
A. (V) 3+ UPGRADES										
FY98	465	7,591	AFMC/ESC	MIPR/FP	ARMY/AMC, ALEXANDRIA, VA FEDERAL EXPRESS PREMIUM SERVICES	MAR 98	MAR 99			
2. TDC PROGRAM										
A. LMST										
FY98(1)	4	1250000	AFMC/ESC	MIPR/FFP	ARMY/CECOM HARRIS CORP,MELBOURNE, FL	JUN 98	DEC 99			
FY99(1)	7	1250000	AFMC/ESC	MIPR/FFP	ARMY/CECOM HARRIS CORP,MELBOURNE, FL	DEC 98	JAN 00			
FY00(1)	6	1250000	AFMC/ESC	MIPR/FFP	ARMY/CECOM HARRIS CORP,MELBOURNE, FL	JAN 00	JAN 01	Y		
FY01(1)	18	1250000	AFMC/ESC	MIPR/FFP	ARMY/CECOM HARRIS CORP,MELBOURNE, FL	JAN 01	JAN 02	Y		
B. ICAP										
FY98	4	(2)	AFMC/ESC	OPT(3)/FFP	MOTOROLA SSTG SCOTTSDALE, AZ	FEB 98	DEC 98			
FY99	10	(2)	AFMC/ESC	OPT(3)/FFP	MOTOROLA SSTG SCOTTSDALE, AZ	DEC 98	JUL 99			
FY00	7	(2)	AFMC/ESC	OPT(3)/FFP	MOTOROLA SSTG SCOTTSDALE, AZ	FEB 00	DEC 00	Y		
FY01	20	(2)	AFMC/ESC	OPT(3)/FFP	MOTOROLA SSTG SCOTTSDALE, AZ	FEB 01	DEC 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
C. NMS/BIP										
FY99	10	500,000	AFMC/SSG	C/IDIQ	TRW, SAN ANTONIO, TX	FEB 99	JUL 99			
FY00	7	500,000	AFMC/SSG	C/IDIQ	TRW, SAN ANTONIO, TX	FEB 00	DEC 00	Y		
FY01	20	500,000	AFMC/SSG	C/IDIQ	TRW, SAN ANTONIO, TX	FEB 01	DEC 01	Y		
3. TACP MODERNIZATION										
A. LASER RANGE FINDERS										
FY01	51	39,000	AFMC/ESC	C/FFP	UNKNOWN	DEC 00	MAR 01	Y		
B. COMPUTER TERMINALS										
FY00	221	18,221	AFMC/ESC	C/FFP	UNKNOWN	DEC 99	MAR 00	Y		
FY01	335	18,221	AFMC/ESC	C/FFP	UNKNOWN	DEC 00	MAR 01	Y		
C. MANPACK RADIOS										
FY00	221	42,000	AFMC/ESC	C/FFP	UNKNOWN	DEC 99	MAR 00	Y		
FY01	335	18,221	AFMC/ESC	C/FFP	UNKNOWN	DEC 00	MAR 01	Y		
REMARKS: 1. Option to FY95 C/FFP contract with Harris Corp, Melbourne, FL. 2. Unit cost varies due to sizing/composition of ICAP packages based on application. 3. Option to FY96 ICAP contract with Motorola SSTG, Scottsdale, AZ; recurring costs are FFP.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT SURVIVOR/EVADER LOCATOR RADIO				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$5,532	\$2,992	\$843	\$3,567	\$5,775	\$5,909	\$6,034	\$6,170
<p>Description:</p> <p>The Combat Survivor/Evader Locator (CSEL) system will address existing deficiencies in support of personnel recovery and of isolated personnel during war, military operations-other-than-war, and peace-time. CSEL will replace existing PRC-90 and PRC-112 survival radios with current and emerging technologies in a new end-to-end system to provide enhanced Combat Search and Rescue (CSAR) capabilities. CSEL system features include a new hand-held radio which incorporates near real-time geopositioning, two-way over-the-horizon secure data messaging, verification of evader identification and status, low probability of intercept/detection, and the potential integration of commercial satellite systems capabilities.</p> <p>The CSEL program was following a standard new start acquisition path until the June 1995 shoot down, evasion, and eventual recovery of a US pilot, heightened the urgency to develop and acquire an enhanced CSAR capability. In July 1995, the Under Secretary of Defense for Acquisition and Technology USD (A&T) issued a memorandum directing the accelerated development of a CSEL capability. In November 1995, the Vice Chief of Staff/Air Force approved the CSEL operational requirements document and the USD (A&T) approved the overall acquisition strategy. In December 1995, the Vice Chief of Staff/Air Force approved the CSEL operational requirements document and the USD (A&T) approved the overall acquisition strategy. In December 1995, the Secretary of Defense endorsed the CSEL program, including a four-phase plan for CSAR.</p> <p>In February 1996, the Commander of the Space and Missile Systems Center announced the contract award of a Cost Plus Award Fee contract (RDT&E, Air Force funds) for the development of CSEL. (Reference Program Element 35176F of the Air Force Descriptive Summaries.)</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMBAT SURVIVOR/EVADER LOCATOR RADIO		
Description (cont.): The first production option was awarded on 18 July 1997 with delivery of the first Low Rate Initial Production (LRIP) units now scheduled for the 3rd quarter of FY99. A total of 23,450 CSEL radios will be purchased by the Air Force. Ultimately, an estimated 52,000+ CSEL radios will be procured by the Air Force, Army, and Navy. CSEL is a joint procurement with the Army and Navy funding separately to buy similar quantities of CSEL radios. Radio unit costs are contingent on full participation by all three Services. FY00 funding will be used to verify the acceptability of preproduction radio performance. Without this funding, the system deployment would be delayed for at least an additional 6 months. FY98 procurement funds were used for producibility and deficiency modifications and procurement of 50 new VHF modules. FY99 funding will buy 50 SAASM based GPS modules. These GPS modules, along with the 50 new VHF modules are then retrofitted into 50 Option 1 radios. These 50 radios will be tested in FY00 to verify acceptability of radio performance for a decision to proceed with the Option 2 Low Rate Initial Production in FY01. Radios from the FY01 Option 2 LRIP buy are then used to conduct the IOT&E leading to a full Rate Production Fielding decision in FY02. To conduct IOT&E, a combined minimum service buy of 250 radiosto be procured the the three Services is required to allow for the random selection of 50 radios for test.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMBAT SURVIVOR/EVADER LOCATOR RADIO					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
CSEL SYSTEM			\${5532}		\${2992}		\${843}		\${3567}
CSEL RADIOS	A							50	\$450
RADIO WARRANTY									\$60
PROG SPT EQUIP(1)									\$40
RADIO SET BASE STAT	A								\$890
RADIO SET DAMA-C UPGRADE									\$270
PRODUCIBILITY/DEFICIENCY			\$3,550		\$910				\$815
PRODUCTION ENGINEERING			\$1,982		\$2,082		\$843		\$1,042
Totals:			\$5,532		\$2,992		\$843		\$3,567
Remarks: 1. Program support equipment consists of radio set adapters, mission planning software, batteries, flyaway costs, antennas, earpieces, etc.									
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: RADIO EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$18,630	\$12,173	\$16,685	\$14,434	\$9,107	\$4,813	\$5,114	\$5,224
<p>Description:</p> <p>This program procures new high frequency (HF) radio equipment for the Air Force (AF) and upgrades or procures tactical/land mobile radio systems at various AF installations. The majority of the AF high power, HF radio stations located around the world are more than 20 years old, and are very costly and increasingly difficult to maintain. Due to a declining support posture, and the move to collocate/close U.S. facilities overseas, the Department of Defense (DOD) HF Mission Area Review directed the Services/Agencies to reduce and collocate HF resources throughout the world. The Joint Staff tasked the AF to be the executive agent for the DOD HF collocation effort.</p> <p>1. SCOPE COMMAND HIGH FREQUENCY (HF) RADIO STATION REPLACEMENT: The SCOPE COMMAND program provides for the modernization of selected high power HF ground radio equipment which is the primary and sole command and control resource for Air Mobility Command (AMC) cargo and tanker aircraft. This program supports Mystic Star, the United States Air Force Global HF System, Defense Communications Systems (DCS) HF Entry, US Navy HICOM, and other high power HF networks. It also supports war plans and operational requirements for the following organizations: White House Communications Agency (WHCA), Joint Chiefs of Staff (JCS), Defense Information Systems Agency (DISA), Air Mobility Command (AMC), Air Combat Command (ACC), Air Intelligence Agency (AIA), Air Force Space Command (AFSPC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), and Air Reserve and Guard forces.</p> <p>The SCOPE COMMAND program is divided into three distinct phases and is upgrading 14 Air Force HF Global sites around the world with state-of-the-art, commercial-off-the-shelf HF radio equipment. SCOPE COMMAND will also posture the AF to move to a centralized net control capability with unmanned HF radio facilities (referred to as Lights Out). The phases are:</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: RADIO EQUIPMENT		
Description (cont.): <p>Phase A, Initial SCOPE COMMAND (ISC), procured two HF radio levels for 14 stations to provide Automatic Link Establishment (ALE) capability to meet AMC's command and control requirements and aircraft modification schedules. Thirteen stations are fully operational. The fourteenth installation is pending host nation approval. ISC was completed Dec 98 with prior year funding.</p> <p>Phase B, Full Up, procures equipment for the full HF capability to satisfy all Air Force HF mission requirements. Phase B includes the equipment, engineering, installation, and operational testing costs to achieve full operational capability.</p> <p>Phase C, Lights Out, will include the definition, design, proof-of-concept, installation, and operational testing costs of a Centralized Net Control Station (CNCS) at Andrews AFB to satisfy the requirement for automated remote control of the SCOPE COMMAND HF radios around the world. Phase C will also procure the associated software and equipment necessary to install the Lights Out capability at the other 13 HF Global Stations. Other program costs will include selective replacement of older, degraded HF antennas, when required, to maximize the effectiveness of the new SCOPE COMMAND Full-Up equipment.</p> <p>FY 98 funding provided for the SCOPE COMMAND equipment/installation for Phase B Full Up equipment at two additional HF stations (prior year funded two stations), the procurement, testing, and integration of the Phase C, CNCS "Lights Out" capability at two test sites, engineering and integration support, and HF replacement antennas.</p> <p>FY 99 funding provides for the SCOPE COMMAND equipment/installation for two Phase B Full Up HF stations, completion of the Phase C, CNCS/Lights Out capability at four sites (vice nine sites identified in FY99 President's Budget due to greater than estimated proof-of-concept costs), Type I factory training, engineering and integration support.</p> <p>FY00 funding will provide for SCOPE COMMAND equipment/installation for three Phase B Full Up stations, Phase C equipment and installation for eight stations, engineering and integration support, and HF replacement antennas.</p> <p>FY01 funding will provide for Scope COMMAND equipment/installation for four Phase B Full Up stations, SCOPE COMMAND/Phase C engineering and integration support, and HF replacement antennas.</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: RADIO EQUIPMENT		
Description (cont.): 2. AF OFFICE OF SPECIAL INVESTIGATIONS (AFOSI) TACTICAL RADIO SYSTEM: The AFOSI's Land Mobile Radio (LMR) Program provides secure, two-way communications internally between AFOSI personnel and externally between AFOSI agents and other government/investigative agencies. This program is responsible for the planning, acquisition, and implementation of command wide LMR systems. Externally, these systems provide anti-terrorism, fraud, criminal, counterintelligence, and force protection mission support to base commanders and deployed DOD units at more than 170 worldwide locations. Internally, LMR operations include immediate two-way radio communications for garrison and deployed AFOSI mission needs. A goal of the LMR program is to standardize equipment and maximize interoperability for the complete LMR equipment inventory to ensure maximum compatibility throughout the command. FY00/01 funding will procure portable LMR equipment and "narrow" bandwidth capability for LMR equipment in support of AFOSI missions. 3. ACC TRUNKED LAND MOBILE RADIO (LMR) SYSTEM: Trunked LMR systems provide trunking infrastructure to manage all radio nets under a single integrated network with significantly reduced bandwidth. FY98-01 funding continues procurement of improved LMR capability in support of ACC missions.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							P-1 NOMENCLATURE: RADIO EQUIPMENT						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. SCOPE COMMAND HF RADIO STATION REPLACEMENT	A			{18046}			{11593}			{15699}			{13452}
PHASE B FULL UP	A			6,080			5,519			8,935			11,676
PHASE C LIGHTS OUT	A			9,421			5,305			4,464			208
ENGR/INTEGRATION/TNG				1,665			769			875			568
ANTENNAS	A			880						1,425			1,000
2. AFOSI TACTICAL RADIO SYSTEM	A									416			416
3. ACC TRUNKED LMR SYS	A			584			580			570			566
TOTALS:				18,630			12,173			16,685			14,434
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & 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	
1. SCOPE COMMAND HF RADIO STATION REPLACEMENT (1)										
PHASE B (FULL UP)										
FY 98			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JUN 98	JUN 99			
FY 99			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 99	JAN 00			
FY 00			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 00	JAN 01	Y		
FY 01			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 01	JAN 02	Y		
PHASE C (LIGHTS OUT)										
FY 98			AFMC/SM-ALC	DO/CPIF	ROCKWELL, RICHARDSON TX	JUL 98	AUG 99			
FY 99			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	AUG 99	FEB 00	Y		
FY 00			AFMC/SM-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 00	JUL 00	Y		
2. AFOSI TACTICAL RADIO SYSTEM (1)										
FY00			HQ AFOSI	OPT(2)/FP	MOTOROLA, INC; HANOVER, MA	JAN 00	MAR 00	Y		
FY01			HQ AFOSI	OPT(2)/FP	MOTOROLA, INC; HANOVER, MA	JAN 01	MAR 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 NOMENCLATURE: RADIO 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
3. ACC TRUNKED LMR SYSTEM (1)									
FY98			HQ ACC	OPT/FFP	MULTIPLE (3)	MAY 98	DEC 98		
FY99			HQ ACC	OPT/FFP	MULTIPLE (3)	MAY 99	DEC 99	Y	
FY00			HQ ACC	OPT/FFP	MULTIPLE (3)	MAY 00	DEC 00	Y	
FY01			HQ ACC	OPT/FFP	MULTIPLE (3)	MAY 01	DEC 01	Y	

REMARKS:

1. Quantities and unit costs vary due to site specific requirements.
2. Option to contract with Motorola, Inc. awarded July 1997.
3. Multiple options from existing ACC/GSA schedule contracts. Award/delivery dates represent dates of first contract award and delivery.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TV EQUIPMENT (AFRTV)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$2,033	\$1,979	\$1,991	\$2,025	\$2,047	\$2,048	\$2,092	\$2,139
<p>Description:</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 operates radio and television facilities overseas in support of the internal information mission of United States Central Command, United States Pacific Command, Air Combat Command, Air Force Space Command, and United States European Command. This program also procures radio and television equipment for the Air Force News Agency (AFNEWS) Production Center, Kelly AFB, TX. AF News produces and distributes corporate Air Force radio and television news productions to AFRTS outlets, commercial stations and Air Force units throughout the world in support of the Air Force's Internal Information Program and the Army and Air Force Hometown News Service.</p> <p>1. AFRTS EQUIPMENT PROCUREMENT: FY98-01 funds procure radio and television broadcasting equipment to include TV cameras, audio consoles, video cassette recorders, audio recorders, integrated receiver decoders, generators, equalizers, mixers, multi-channel video/audio switchers, editors, routers, TV monitors, radio/TV transmitters and antennae, microwave transmitters and antennae, satellite downlinks and fiber optic links, and specialized test equipment. This funding is critical to ensure the capability to deliver AFRTS radio and TV service to uniformed service members, civilian employees, and family members serving overseas, many of whom are serving in remote locations where AFRTS is their sole source of news and information. Failure to fund this program in its entirety will delay the replacement of aging equipment, thereby increasing the frequency of maintenance and repair to keep the older equipment in serviceable condition.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: TV EQUIPMENT (AFRTV)		
Description (cont.): 2. AFNEWS PRODUCTION CENTER: FY98-01 funds procure radio and TV broadcasting equipment for use within the AFNEWS Production Center. Equipment includes electronic news gathering cameras, amplifiers, receivers, generators, mixers, switches, routers, monitors, video cassette recorders/players, editors, camcorders, consoles, equalizers, transmitters, portable satellite uplink, and keyboards. Failure to fund this program will impede the ability of AFNEWS to produce and distribute radio and TV productions in support of the Air Force's Internal Information Program and the Army Air Force Hometown News Service.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: TV EQUIPMENT (AFRTV)						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. AFRTS EQ PROCUREMENT	A		\$1,752		\$1,699		\$1,709		\$1,738	
2. AFNEWS PRODUCTION CTR	A		\$281		\$280		\$282		\$287	
Totals:			\$2,033		\$1,979		\$1,991		\$2,025	
Remarks:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$3,822	\$3,187	\$3,208	\$3,259	\$3,294	\$3,303	\$3,373	\$3,450
<p>Description:</p> <p>Closed Circuit Television (CCTV) and Audiovisual (AV) systems and their products are used throughout the Air Force to help manage, train and employ war fighters. Products are developed for war fighter operations, readiness training, medical photography, public and internal information, testing and evaluation, and corporate communications. Combat imagery is used for operational reporting and analysis, battle damage assessment, intelligence and operational analysis, casualty identification, and the historical record. These funds replace older television studio systems with newer and more capable equipment and systems for Air Force television production, video teleconferencing and video teletraining centers. These systems help meet the challenges of a downsizing Air Force while meeting the growing need for image information worldwide. CCTV systems are centrally managed to insure full interoperability with all other electronic image acquisition and presentation systems in the Air Force. FY98-01 CCTV/AV projects are described below.</p> <ol style="list-style-type: none"> 1. IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT: FY98-01 funds continue procurement of replacement equipment and upgrades for studio based closed circuit television equipment. With the advent of digitally based video systems for image signal capture, processing, editing, and transmission, our TV centers offer greater capability in image articulation and customer understanding. The equipment includes cameras, editing and duplication, and all accessories necessary for image capture, processing, and distribution. This program funds for 19 production centers and provides products for combat operations, education and training and corporate communications. 2. COMBAT CAMERA SYSTEMS: The FY98-01 program continues funding to replace heavily used and worn mobile combat documentation video cameras and portable video recorders for mobility tasked combat camera forces world-wide. This program provides for technology 								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT		
Description (cont.): upgrades to portable video systems, and includes lightweight digital video cameras and camcorders providing enhanced video quality to the war fighter. These newer systems reduce transportation footprint and enable combat camera personnel to transmit motion and still imagery across satellite and terrestrial systems. This real-time operational and combat imagery provides war fighters with greater flexibility in decision-making.				
3. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEM: FY98 concludes funding for Air Education and Training Command's (AETC) Video Teletraining Systems used to accomodate the drawdown of Field Training Detachments.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. IMAGE ACQ/TV STUDIO EQUIP	A		\$1,529		\$1,562		\$1,572		\$1,597	
2. COMBAT CAMERA SYSTEMS	A		\$1,528		\$1,625		\$1,636		\$1,662	
3. VIDEO TELECON/DIST LEARNING	A		\$765							
Totals:			\$3,822		\$3,187		\$3,208		\$3,259	
Remarks:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$29,984	\$27,759	\$41,589	\$47,535	\$48,278	\$50,052	\$54,257	\$54,623
<p>Description:</p> <p>The Base Communications Infrastructure program supports procurement of communications equipment for base-level infrastructure programs that either replaces maintenance intensive equipment, replaces or upgrades existing digital switching systems, provides network management of information systems, or increases the capacity of saturated information transmissions systems to facilitate the rapid dissemination of vital command and control and business processing systems information. Requirements are established by Major Command (MAJCOM), Air National Guard (ANG), and/or Air Force Reserve (AFR) components, and fall outside the Combat Information Transport Systems requirements contained in P-1 Line 63 entitled Base Information Infrastructure. FY98-01 funds are programmed by each MAJCOM for the following Base Communications Infrastructure programs:</p> <ol style="list-style-type: none"> 1. HEADQUARTERS AIR FORCE COMMUNICATIONS AGENCY (HQ AFCA): This program procures a variety of small-scale communications and information systems equipment items in support of AFCA's Information Technology (IT) mission and career field reengineering to a network-centric specialty. FY99-01 funds will purchase real-time video systems, satellite terminal upgrades, high speed data processing equipment to host models and simulations, and will upgrade AFCA network infrastructure to provide more network ports and increase bandwidth available to desktops. Also, FY01 funds will purchase client-server systems, and network management capabilities to upgrade training capability and student throughput capacity. 2. AIR NATIONAL GUARD (ANG): FY 98-01 continues to provide base communications infrastructure funding for upgraded communications systems at multiple ANG sites. Funding procures new and upgraded Digital Switching Systems (DSS), Private Branch 								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE		
Description (cont.): Exchanges (PBXs), and Information Transport Systems (ITS) enabling migration to Asynchronous Transfer Mode (ATM) data networks. These networks include voice, video, imagery, telemetry, and base information protection systems. These systems help ensure that the ANG (in support of ANG State and Federal missions) maintains technologically viable systems that are compatible and interoperable with the DoD and Air Force command, control, communications, computer, information and intelligence architecture.				
3. CIVIL ENGINEERING (CE) REGIONAL PROCESSING CENTER (RPC) CONNECTIVITY: FY98 funding concluded the program which provides for internal building cabling, hubs, and servers at multiple CE sites. No FY00/01 funding is requested.				
4. HEADQUARTERS AIR FORCE SPACE COMMAND (HQ AFSPC): FY98-01 funding provides for the command-wide modernization and life cycle replacement of information transmission systems, base information infrastructure and base communications infrastructure. Funds procure wide and local area network hardware/software, upgrade and replace secure/nonsecure telephone switches at main bases and remote units, and support life cycle replacement of base communications infrastructure. These funds will supplement funding provided by the Air Force Combat Information Transport System (CITS) program by providing critical base-level network connectivity to facilities not funded under the CITS program.				
5. HEADQUARTERS AIR FORCE OFFICE OF SPECIAL INVESTIGATION (HQ AFOSI): FY98 funding concluded the procurement of communications hardware and engineering/integration support necessary to ensure that AFOSI communication systems are compatible with the current telecommunications architecture at Andrews AFB, MD. No FY00/01 funding is requested.				
6. HEADQUARTERS UNITED STATES AIR FORCE EUROPE (HQ USAFE): FY00/01 funds support the USAFE Telephone Switch Upgrade and replace switches that can no longer be maintained. Additionally, FY00/01 funds will will replace switches at Aviano, Italy, Spangdahlem, Germany, and Mildenhall and Lakenheath, England.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE		
Description (cont.): 7. HEADQUARTERS AIR EDUCATION AND TRAINING COMMAND (HQ AETC): FY00/01 funds support communications infrastructure modernization systems required to support technologically advanced technical training requirements involving career fields including security forces, communications and information, education and training, and finance. The current infrastructure is inadequate and does not meet current and future technical training requirements supporting over 175,000 trainees per year. FY00 funds support electronic principles computer modernization efforts to meet production required for the Expeditionary Aerospace Force (EAF) career field expansion. Training supports over 20 different career fields. Funds will also purchase computerized training emulators to ensure mission ready Defense Satellite Communications System (DSCS), Global Positioning System (GPS), and MILSTAR operators. FY01 funds will bring communication/computer, financial management, survival, ground combat skills, and several other career fields up to date with fielded equipment in order to meet mission needs. FY01 funds also support part two of electronic principles modernization efforts in support of EAF demands.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. HQ AFCA	A				\$457		\$582		\$666
2. ANG	A		\$22,217		\$22,955		\$23,235		\$23,802
3. CE RPC	A		\$3,026						
4. HQ AFSPC	A		\$4,327		\$4,347		\$4,271		\$4,248
5. HQ AFOSI	A		\$414						
6. HQ USAFE	A						\$3,252		\$4,040
7. HQ AETC	A						\$10,249		\$14,779
Totals:			\$29,984		\$27,759		\$41,589		\$47,535
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS 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	
1. HQ AFCA (1)										
FY99			HQ AFCA	C/FFP	MULTIPLE (2)	JAN 99	MAY 99			
FY00			HQ AFCA	C/FFP	MULTIPLE (2)	JAN 00	MAY 00	Y		
FY01			HQ AFCA	C/FFP	MULTIPLE (2)	JAN 01	MAY 01	Y		
2. ANG (2)										
FY98			ANGRC	C/FFP	MULTIPLE (2)	JAN 98	JAN 98			
FY99			ANGRC	C/FFP	MULTIPLE (2)	JAN 99	JAN 99			
FY00			ANGRC	C/FFP	MULTIPLE (2)	JAN 00	JAN 00	Y		
FY01			ANGRC	C/FFP	MULTIPLE (2)	JAN 01	JAN 01	Y		
3. CE RPC (3)										
FY98			HQ AFCESA	C/FFP	MULTIPLE (2)	NOV 97	JAN 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS 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	
4. HQ AFSPC (1)										
FY98			HQ AFSPC	C/FFP	MULTIPLE (2)	JAN 98	MAY 98			
FY99			HQ AFSPC	C/FFP	MULTIPLE (2)	JAN 99	MAY 99			
FY00			HQ AFSPC	C/FFP	MULTIPLE (2)	JAN 00	MAY 00	Y		
FY01			HQ AFSPC	C/FFP	MULTIPLE (2)	JAN 01	MAY 01	Y		
5. HQ AFOSI (1)										
FY98			HQ AFOSI	C/FFP	MULTIPLE (2)	DEC 97	JAN 98			
6. HQ USAFE (1)										
FY00			HQ USAFE	C/FFP	MULTIPLE (2)	OCT 99	DEC 99	Y		
FY01			HQ USAFE	C/FFP	MULTIPLE (2)	OCT 00	DEC 00	Y		
7. HQ AETC (1)										
FY00			HQ AETC	C/FFP	MULTIPLE (2)	JAN 00	MAR 00	Y		
FY01			HQ AETC	C/FFP	MULTIPLE (2)	JAN 01	MAR 01	Y		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999				
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS 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	
<p>REMARKS:</p> <p>1 Various quantities and unit costs due to different site configurations.</p> <p>2. Various competitive, fixed price/firm fixed price contracts are available through the following vendors for execution of Base Communications Infrastructure funding: AT&T Federal Communications Systems, Silver Spring, MD; AT&T Englewood, CO; Tennmark, Nashville, TN; Sun Micro Systems, Alexandria, VA; GTE Government Systems and Dichroma, Falls Church, VA; Amerind INC, Alexandria, VA; Presidio, Lanham, MD; Digicom, Bethesda, MD; NORTEL, Richardson, TX; DELL, Dallas, TX; STI, Rosslyn, VA; and GTSI, Chantilly, VA. Award/delivery dates represent the date of first award and first delivery.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: CAP COM & ELECT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$633	\$450	\$382	\$390	\$0	\$0	\$0	\$0
<p>Description:</p> <p>The Civil Air Patrol (CAP) Communications and Electronics Program is a continuing program for acquisition of communications and computer equipment required to support nationwide CAP activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counterdrug, disaster relief and training activities. CAP activities require automated data processing equipment (ADPE) support for processing and storage of CAP membership information, aerospace education and cadet training program data, operational and logistics data, bookstore, depot inventory and sales information (CAP accounting system) and other day-to-day management activities. FY98-01 funding continues procurement of such items as (1) very high frequency-frequency modulated (VHF-FM) transceivers and signal repeaters; (2) high frequency (HF) transceivers, power supplies and antennas; (3) HF voice system upgrade, and (4) National Digital Radio Network (NDRN) Expansion Project.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$8,650	\$7,088	\$7,034	\$6,467	\$6,130	\$6,103	\$6,221	\$6,373
<p>Description:</p> <p>The "Items Less Than \$5M" line funds various procurements that support the missions of all Air Force Commands. This program contains numerous miscellaneous items of electronics and telecommunications equipment; no single item procured in this P-1 line is equal to or greater than \$5 million. Two of the major procurement activities in this line are the Allowance Sources (AS) equipment and replacement power conditioning equipment. Miscellaneous AS authorizations provide new and/or replacement equipment items to organizational units in the field. Power Conditioning and Continuation Interface Equipment (PCCIE) systems are used to back up and protect power sensitive/dependent computer systems. Projects associated with FY00/01 funding are described below.</p> <ol style="list-style-type: none"> 1. ALLOWANCE SOURCES (AS) AUTHORIZATIONS: Requirements funded in this program are generated as the result of condemnations of existing equipment, an increase in the basis of issue on an individual item, or a change in the basing structure. Units requisition items based on authorizations contained in Allowance Sources (AS) which tailor support equipment authorizations to unit missions. The Equipment Item Requirements Computation generates a total net buy requirement based on a comparison of authorizations and on-hand assets. Examples of equipment procured are: special electronics atmospheric equipment, electronic warfare and bombing gunnery ranges, equipment for communications evaluation/maintenance teams, and ground radar special mission and support equipment. 2. POWER CONDITIONING AND CONTINUATION INTERFACING EQUIPMENT (PCCIE): PCCIE consists of commercial power quality equipment. This equipment is fielded as a complete system and, once installed, provides 100% uninterrupted power to critical AF installations. This program procures replacement PCCIE for all Air Force, Air National Guard, and Air Force Reserve units. Examples include the Air 								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION		
Description (cont.): Defense Center at Cheyenne Mountain Air Station (AS), Perimeter Acquisition Radar sites at Cavalier AS and Beale AFB, all regional Air Defense Sector radar sites, Combat Communications Centers worldwide, radar sites in Middle Eastern countries, satellite tracking stations worldwide, numerous information processing sites, and Next Generation Radar (NEXRAD) sites. Without the equipment the sites will experience power outages, brownouts, power surges and sags; all of which will cause loss of mission capability.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5 MILLION			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
1. ALLOWANCE SOURCES AUTHORIZATIONS			\$2,677		\$2,515
2. POWER CONDITIONING AND CONTINUATION INTERFACING EQUIPMENT			\$4,357		\$3,952
TOTALS:			\$7,034		\$6,467
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$49,648	\$57,022	\$56,195	\$48,338	\$44,820	\$45,695	\$48,095	\$49,214
<p>Description:</p> <p>Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for Communication-Electronics equipment and systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY98-01 are ongoing or planned for the following systems: North Warning System, Ground Theater Air Control System (GTACS), Ballistic Missile Early Warning System (BMEWS), Cheyenne Mountain Complex (CMC), Air Traffic Control and Landing System (ATCALs), Weather Observation and Forecast (Ground Weather, Space Weather) Details follow by system:</p> <p>1. NORTH WARNING SYSTEM (NWS): The NWS was previously named the Atmospheric Early Warning System (AEWS). The NWS is a component of the Integrated Tactical Warning and Attack Assessment (ITW/AA) network. The North Warning System provides early warning for all atmospheric threats. This system includes sensors (such as the AN/FPS-117, a minimally attended, long range radar) and operations centers that use the AN/FYQ-93 computer system to fuse and act on warning data to launch intercepts at potential hostile threats. The system data is forwarded to the National Command Center at Cheyenne Mountain Complex (CMC) for overall control of defense operations by North American Aerospace Defense (NORAD) Command.</p> <p>MOD# 38516B, AN/FPS-117 Reliability, Maintainability & Supportability Improvement: No FY00/01 funding requested.</p>								
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Description (cont.): 2. GROUND THEATER AIR CONTROL SYSTEM (GTACS): The GTACS, the ground based portion of the Theater Air Control System (TACS), consists of a family of communications-electronics components that provide the battlefield commander with systems and resources to support situational awareness, joint, allied, and combined forces planning, execution of the air tasking order, all interdiction, close air support, counter air, airlift, air refueling, special operation, electronic combat, surveillance, reconnaissance, and search and rescue missions. The GTACS uses as its primary sensor the AN/TPS-75 radar , a mobile, three dimensional (range, azimuth, altitude) surveillance, acquisition, and tracking radar which enables aerospace control in the theater of air operations. A. MOD# M00018, UPX-27 Identification Friend or Foe (IFF) Interogator: No FY00/01 funds requested. B. MOD# M00016, AN/TPS-75 Radar Shelter Replacement: FY99-01 funds the radar shelter modification which replaces 20-year-old shelters (which are deteriorated, corroded, costly to operate/maintain and mission limiting) with an improved version possessing an increased weight capability to handle weight growth already incurred. C. MOD# M00020, Antenna Bearing Redesign: FY99-01 funds the modification that replaces the current AN/TPS-75 radar antenna's rotational and stationary pedestal system and the antenna's bearings with a more robust, reliable design. The current bearing is unable to withstand the axial and radial shock loads experienced in a tactical environment. Engineering analysis shows that the current design experiences degradation in bearing life with wind loads over 31 knots. This presents a safety of equipment hazard since the technical order specs for winds over 50 knots. The current design cannot meet operational mission requirement and/or is mission-limiting. The new design will provide two to three times more operational life. D. MOD # MISC, Miscellaneous Low Cost MODs: No FY00 funding requested. See P-40A for FY01 funding request. 3. BALLISTIC MISSILE EARLY WARNING SYSTEM (BMEWS): The BMEWS system operates from three sites located at Thule,				
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Description (cont.): Greenland; Clear, Alaska; and Fylingdales, England. Its mission is to detect and provide warning of a ballistic missile attack on the United States, Canada, United Kingdom, and Europe. The threat has evolved such that the BMEWS target handling and accuracy capabilities must be upgraded to better discriminate reentry vehicles (RVs) from other objects in order to obtain a more accurate raid count and impact prediction. The Thule and Fylingdales radars were upgraded in 1987 and 1992, respectively. MOD # N/A, Clear Alaska Radar Upgrade (CRU), FY98-00 funding procures the Clear Alaska Radar Upgrade. See corresponding P-3A for a detailed description. No FY01 funds requested. 4. CHEYENNE MOUNTAIN COMPLEX (CMC): The CMC provides real-time processing and display of missile warning and force management information which enables the Commander-in-Chief, North American Aerospace Defense (CINCNORAD) to provide real-time integrated tactical warning/attack assessment information to the National Command Authorities. The CMC also provides direct sensor input to National Strategic Response Plan decision-makers at fixed command centers, as well as processors/display systems supporting the CMC Air Defense Operations Center, NORAD Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit. A. MOD# S7201713501, 3090 Mainframe Replacement: This modification will replace the out-of-production Space Defense Operations Center (SPADOC) 3090 water cooled IBM mainframe that does not support open systems architecture. IBM has stated in writing they will no longer support (technical assistance or spares) the current SPADOC Mainframe past FY00. FY98-00 funding provides a migration path for the NORAD/USPACECOM Warfighter Support System (N/USWSS) by implementing an open system architecture. No FY01 funds requested. B. MOD# S7201802202, Automatic Digital Network (AUTODIN): No FY00/01 funds requested. C. MOD# S529382, Message Processing Distribution System/Replacement (MPDS-R): FY99-01 funds the modification which is an upgrade to replace the existing Bytex AS 240 time division multiplexors which are slowly becoming unsupportable, and inadequate to support the				
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Description (cont.): necessary circuit types. Growth capacity is limited, and the design is a "blocking type switch." The new switch will be "non-blocking," and will be able to handle the additional circuit growth capacity. The overall approach will optimize a distributed architecture to the maximum extent possible, while ensuring compatibility with current technical control systems and processors.				
D. MOD# S604628, Visual Display System (VDS) Monitor Replacement (Granite Sentry): FY01 funding procures this modification. These 19 inch multisync video monitors provide color displays in numerous centers throughout the CMC. The multisync monitor receives red, green, blue (RGB) analog video signals. The Federal Communications Commission has mandated transition to digital video by 2006. These monitors differ from regular TV in horizontal scan rate and bandwidth. Regular TV uses a horizontal scan rate of 15KHz. Granite Sentry requires a horizontal scan rate of 15 to 90 KHz. Regular TV uses a bandwidth of 14 MHz. The bandwidth required for these monitors is 15 to 140 MHz. Regular TV uses sync on green. These monitors are required to sync on RGB. This monitor is no longer manufactured or supportable.				
E. MOD # S7201802101, Global Command & Control System (GCCS)/Granite Sentry Migration: No FY00/01 funding requested.				
F. MOD# S7201802203, Space Work Station Migration: The Space Defense Operations Center (SPADOC) is located in CMC, and is the command, control, and communications element of the Space Defense Command and Control System (SPADCCS). SPADOC provides the capability for making a tactical assessment of a potential threat against United States space assets. The Digital Display Group is comprised of several graphic work stations providing the monitoring, message generation and review, and display functions required to support mission tasks. Recent logistics analysis indicates the current Space Work Stations will be unsupported by FY03. FY01 funding procures the space work station replacement.				
G. MOD# G7201818901, Mission Communications Information Transport Backbone: No FY00/01 funds requested.				
H. MOD# N/A, SPADOC Communications Interface: The SPADOC Communications Interface project replaces existing computer systems				
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<p>Description (cont.): that interface the SPADOC main processors with the Cheyenne Mountain communications network. These systems will be unsupported by FY03. Failure to accomplish this modification will result in the loss of the communications links between CMC subsystems and external sensors. FY01 funding begins the replacement program.</p> <p>I. MOD# N/A, Enterprise Database Infrastructure: FY00 funds the modification which provides the equipment and commercial-off-the-shelf software required to migrate current stove-pipe, mission-aligned databases into a modern, supportable enterprise-wide environment. In addition to improving supportability, this modification will result in lower cost of ownership. No FY01 funds requested.</p> <p>J MOD# N/A, Processing Display Subsystem Migration (PDSM): PDSM represents the forward user replacement part of the NORAD/US Space Com program. The modification will improve maintainability and reduce cost-of-ownership through reuse, reengineering, re-hosting, and redesign of the current system, while migrating to an open system architecture. FY00 funding will provide a simple design which will incorporate new and more flexible displays and processing of display data from the various missile warning sources. No FY01 funding is requested.</p> <p>K MOD # MISC, Miscellaneous Low Cost MODs: No FY00 funding requested. See P-40A for FY01 funding request.</p> <p>5. AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALs): ATCALs is a combination of USAF ground facilities and equipment, both fixed and tactical, with associated avionics, personnel and procedures that provide air traffic control to USAF/DoD flying missions worldwide. ATCALs provides enroute and terminal navigation control and separation, approach, departure and landing guidance. ATCALs also provides operability with NATO, the U.S. National Airspace System and the International Civil Aviation Organization. The following modifications are procured under the single MOD# B7165:</p> <p>(A) AN/TPN-19 Landing Control Central (LCC). No FY00/01 funding requested.</p>				
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Description (cont.): (B) AN/FRN-45 Remote Maintenance Monitor. The AN/FRN-45 Tactical Air Navigation System (TACAN) Navigational Set is a multichannel transponder which provides bearing and distance information up to 200 NM. FY00/01 funding provides the modification of TACAN to allow AN/FRN-45 Remote Monitor capability which will allow technicians from remote locations to assist local technicians during maintenance actions. This capability is vital as the quantity and skill level of on-site technicians decreases. FY00/01 funds the maintenance remote monitor (C) AN/TPX-42 Receiver Upgrade. The AN/TPX-42 Interrogator Set provides for transmission, reception, and processing of IFF signals. It identifies every replying transponder-equipped aircraft up to 200 NM. The AN/TPX-42 is the only IFF interrogator used in the ATCALs; therefore, its reliability is an integral part of overall radar system performance for air traffic controllers, who must ensure aircraft flight path separation, and is critical to safety of flight. FY00/01 funds the modification which replaces receivers which have become less reliable and costly to operate, and complements the recently completed transmitter replacement. (D) AN/GPN-12/20 & TPX-42 Identification Friend or Foe (IFF) Display. Radar sets AN/GPN-12 & 20 are the primary airport surveillance radars used by the Air Force. They detect aircraft within 60 nautical miles (NM) of the radar site and process radar information for display on a plan-position indicator. These systems are past their normal life expectancy, extremely costly to operate, and becoming unreliable. FY00/01 funds the modification which will replace high failure, high cost components in the transmitter/receiver and data processor with state-of-the-art technology that will improve reliability and maintainability. See the attached P-3A for FY00/01 funding requests. 6. 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 Air Force, the Army, Special Operations Forces (SOF), Unified Commands, and other government agencies. Fixed and transportable equipment provide warfighters at in-garrison, contingency, and deployed locations with accurate, timely terrestrial and space weather observations and forecasts.				
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Description (cont.): weather phenomena impacting the DoD's ability to operate on the ground and in the tropospheric environment. Worldwide weather forecasts, model output, observations, and weather warnings, are generated and distributed to Air Force Weather forces and customers. The following modifications are in support of this mission: (A.1). MOD# 93-008, Automated Weather Distribution System (AWDS): FY98/99 funds procured equipment to upgrade AWDS peripheral hardware to standard personal computers (PC). FY00 funding procures equipment to upgrade the remaining AWDS peripheral hardware. No FY01 funds requested. (A.2). MOD# 94-003A, Next Generation Radar (NEXRAD) Transmitter Upgrade: No FY00/01 funds requested. (A.3). MOD# 94-003B, Radar Data Acquisition (RDA) Group Migration: The WSR-88D transmitter is experiencing a higher than expected failure rate. FY99-01 funds the modification which migrates the RDA's proprietary software and hardware to open systems standards. This will result in decreased retrofit costs, since current single source components will be replaced with open standard hardware available from multiple vendors. In addition, software maintenance will be made more efficient and cost effective. (A.4). MOD# 94-004A, Radar Product Generator (RPG) Migration: The RPG is the primary processor which converts base radar data into displayable products. This modification migrates the RPG software to open system standards and port it to commercial off-the-shelf, multiple vendor hardware platforms. FY00 funds the migration which will result in more cost-effective maintenance and logistics, a reduction in life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance, and provide a capability for direct interface to current and planned weather processing and display systems. No FY01 funding requested. (A.5). MOD# 94-004B, Principle User Processor (PUP) Group Replacement: The PUP workstation is the primary vehicle for displaying NEXRAD data. FY98-01 funds the modification which migrates the PUP software to open system standards and port it to commercial			
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Description (cont.): off-the-shelf, multiple vendor hardware platforms. This migration will result in cost-effective maintenance and logistics, reduce life-cycle costs, and provide a growth path to support greater processing capacity. The program will also replace the current stand-alone PUPs with a robust client/server architecture at the AF Operational Weather Squadrons (OWS) under AF weather reengineering, and provide software to each Combat Weather Team (CWT) to allow remote login to the OWS server to meet CWT weather radar data needs. (A.6). MOD# 94-008, Centralized Database Management System (CDMS) Upgrade: No FY00/01 funds requested. (A.7). MOD# 95-001: Air Force Weather Agency (AFWA) Dial-In Subsystem (AFDIS)/AF Weather Information Network (AFWIN): No FY00/01 funding requested. (A.8). MOD# 95-003, Weather Information Processing System (WIPS) Upgrade: FY99/00 funds the WIPS Upgrade which is a phased program utilizing incremental development that encompasses five primary elements: (a.) WIPS Replacement, which migrates legacy mainframe functions to open systems; (b.) Central Database Management System Optimization, which eliminates proprietary databases and establishes an open centralized database; (c.) AFWA Consolidated Network Modernization, which eliminates proprietary communications networks and evolves the AFWA internal network to open standards; (d.) Detachment 7 Reengineering, which modernizes functionalities and facilitates merger of Detachment 7 functions into WIPS; and, (e.) Communications Front-End Processor Restructure, which replaces legacy proprietary information collection/dissemination systems with open standard systems. No FY01 funding requested. (A.9). MOD# 95-010, Tactical Forecast System (TFS)/AWDS Merged System TFS-2000: No FY00/01 funding requested. (A.10). MOD# 95-011, Tactical Meteorological (TACMET) Observing System Upgrade: FY98-00 funds the modification which provides the automated means to allow combat command and control elements automatic access to current and representative surface weather observations. It provides the required elements of surface pressure, wind speed and direction, temperature, dewpoint, relative humidity, and liquid				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMM ELECT MODS		
Description (cont.): precipitation. Enhancement packages provide soil measures and temperature, ambient illumination, cloud base height/amount/vertical visibility, present weather, precipitation, and lightening occurrences. The existing TACMET observing systems are not capable of measuring all required parameters, are logistically unsupportable, manpower intensive, not automated, and do not interface with the customer C4I systems. No FY01 funds requested. (A.11). MOD# 98-001, Air Force Weather Agency (AFWA) Dissemination Subsystem: FY01 funds this modification which upgrades and replaces AFWA dissemination subsystem hardware/software/cable infrastructure, enabling rapid receipt, staging, and transmission of graphics and text-based weather products and data to the warfighter. These enhancements increase the capacity of AF Weather Strategic Center OWS and deployed units to provide timely information where it is needed. (A.12). MOD# 98-002, Product Tailoring/Warfighter Application Program: FY01 funding procures this modification, which upgrades CWT hardware/software/communications infrastructure to collect, analyze, display, and disseminate fine scale meteorological data fields developed by the AF Weather Strategic Centers and OWS and indigenous sources. Current hardware/software/communications infrastructure does not adequately support the large volume and size of Strategic Center or OWS products. Upgrade will allow for rapid product tailoring to support a wide variety of AF and Army operations. (A.13). MOD# 98-003, Weather Forecasting: FY01 funding procures this modification, which upgrades existing AF Weather Strategic Center hardware/software/communications infrastructure to support fine scale weather and cloud model forecasts simultaneously in numerous theaters and areas of operational interest. Current infrastructure will only support a limited number of theater/areas of interest. In addition, current infrastructure does not support the AF spatial and temporal weather and cloud model forecast resolution requirements or have the capacity to handle extremely large data files. B. SPACE WEATHER: The Space Environmental Support System (SESS) mission is to provide timely space weather support by observing,				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMM ELECT MODS		
Description (cont.): analyzing and forecasting solar phenomena and the state of the magnetosphere and ionosphere, inhibiting or enhancing DOD's ability to operate in or through the space environment. The 55th Space Weather Squadron (55 SWXS) collects and processes data on solar activity, the state of the magnetosphere and ionosphere. Alerts, warnings, forecasts and other products are then produced and distributed to many world wide users concerned with high frequency radio communications. (B.1) MOD# 93-005, Radio Solar Telescope Network (RSTN) MOD for Solar Radio Burst Locator (SRBL): FY98-00 funding procures this modification, which upgrades existing solar optical and radio observing systems to 1990's technology. The modifications will improve the warfighters' ability to mitigate radiation damage to high altitude aircraft, allowing timely planning of manned space activities and satellite operations. No FY01 funds requested. (B.2) MOD# 96-001, Solar Electro-Optical Network (SEON) Solar Max (SSM): FY98-00 funding procures this modification, which is an integration effort that meshes upgraded/new SEON components into a more capable, reliable, cost effective, and automated network of observing sites. The modification enables automation and integration of the SEON Solar Radio Spectrograph, SRBL, and Improved Solar Observing Optical Network to allow remote operation from the 55 SWXS centralized forecasting facility. It also automates a self-contained weather and facility status system for asset protection at each site. No FY01 funds requested. (B.3) MOD# 96-031, Improved Solar Observing Optical Network (ISOON): FY99-00 funds this modification which retrofits the 1960's technology optical telescope to decrease maintenance costs and to keep the system operationally effective because various components of the current system are becoming unsupportable. The optical telescopes are the only means of providing real-time reporting of solar flare activity. The 55 SWXS requires the ISOON's accurate data as input to their forecast models. Accurate solar activity warnings are vital to effective space, radar, and communications missions. (B.4) MOD# TBD, Space Weather Ionospheric Characterization System (SWICS): FY00/01 funding procures this modification, which				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 NOMENCLATURE: COMM ELECT MODS		
Description (cont.): combines the space weather modifications 93-003 (Ionospheric Measuring System (IMS) Communication Modification), 93-004 (IMS Scintillation Modification), and 95-019 (Digital Ionospheric Sounding System (DISS) Modification) into a single integrated modification. A Space Battle Lab initiative demonstrated that improved support to the warfighter would be achieved by modifying and combining the existing IMS and DISS units with a research sensor Scintillation Decision Aid (SCINDA). This single integrated modification will enable distribution of graphical products to the warfighter that quantifies the impact ionospheric disturbances have on High Frequency (HF) and Ultra High Frequency (UHF) communications and Global Positioning System (GPS) receiver navigation accuracy degradation.				
7. REMOTE APPLICATION OF POWER AND FIRE SUPPRESSION FOR AN/FPS-117 RADAR: MOD # TBD: FY01 funding will provide modification to the AN/FPS-117 radar system to expand the remote capability to include the ability to control application of power to specific units within the system. It is especially critical to modify the fire suppression capability for the radar electronics located in the tower equipment room.				
8. RANGE THREAT SYSTEM: The Range Threat System Division, through its management of the worldwide distribution of threat simulators provides a near realistic threat training environment for the air crews to gain the experience needed to become proficient in combating the enemy's defensive and offensive systems. These threat simulators increase the mission effectiveness and survivability of our air crews. One such simulator is the AN/MPQ-T3. MOD # TBD: DIGITAL SUB-SYSTEM (DSS) AN/MPQ-T3: The DSS is logistically unsupportable due to obsolete parts. The DSS is the primary interface between the computer subsystem and the rest of the simulator. It consists of a three-tier card rack, power supply rack, and a front-mounted control panel. The card rack is the focus of this redesign. The FY01 funding will provide modification of wireless computer cards (printed circuit boards) to effectively replace the 41 wire wrapped cards, allowing form, fit, function replacement of the DSS.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. NORTH WARNING SYSTEM			\${4905}		\${290}				
MOD# 38516B, RELIABILITY, MAINTENANCE & SUPPORT IMPROVEMENT	A		\$4,905		\$290				
2. GROUND THEATE AIR CONTROL SYSTEM (GTACS)					\${1932}		\${4107}		\${3298}
A. MOD# M00018, IDENTIFICATION FRIEND/FOE (IFF) INTEROGATOR	A				\$742				
B. MOD# M00016, RADAR SHELTER REPLACEMENT	A				\$340		\$300		\$412
C. MOD# M00020, ANTENNA BEARING REDESIGN	A				\$850		\$3,807		\$386
D. MOD# MISC, MISCELLANEOUS LOW COST MODS	A								\$2,500
3. BALLISTIC MISSILE EARLY WARNING SYSTEM (BMEWS)			\${12525}		\${21863}		\${20910}		
MOD# N/A CLEAR RADAR UPGRADE (CRU)	A		\$12,525		\$21,863		\$20,910		
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
4. CHEYENNE MOUNTAIN COMPLEX			\${4961}		\${10782}		\${8167}		\${14898}
A. MOD# S7201713501, 3090 MAINFRAME REPLACEMENT	A		\$3,776		\$6,200		\$1,100		
B. MOD# S7201802202, AUTOMATIC DIGITAL NETWORK	A		\$885						
C. MOD# S529382, MESSAGE PROCESSING DISTRIBUTION SYSTEM REPLACEMENT	A				\$2,529		\$3,619		\$3,018
D. MOD# S604628, VDS MONITOR REPLACEMENT(GRANITE SENTRY)	A								\$2,000
E. MOD# S7201802101, GLOBAL COMMAND & CONTROL (GCCS)/GRANITE SENTRY MIGRATION	A				\$1,200				
F. MOD# S7201802203, SPACE WORK STATION	A								\$3,834
G. MOD# G7201818901, MISSION COMMUNICATIONS INFORMATION TRANSPORT BACKBONE	A				\$620				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
H. MOD# N/A, (SPADOC) COMMUNICATIONS INTERFACE	A								\$3,282
I. MOD# N/A, ENTERPRISE DATABASE INFRASTRUCTURE	A						\$2,926		
J. MOD# N/A, PROCESSING DISPLAY SUBSYSTEM MIGRATION	A						\$522		
K. MOD# MISC, MISCELLANEOUS LOW COST MODS	A		\$300		\$233				\$2,764
5. AIR TRAFFIC CONTROL LANDING SYSTEM (ATCAL S)			\${2324}				\${9025}		\${10624}
A. MOD# B7165, LANDING CONTROL CENTER	A		\$2,324						
B. MOD# B7165, REMOTE MAINTENANCE MONITOR	A						\$1,241		\$1,353
C. MOD# B7165, RECEIVER UPGRADE	A						\$510		\$730
D. MOD# B7165, INFORMATION FRIEND/FOE (IFF) DISPLAY	A						\$7,274		\$8,541
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
6. WEATHER OBSERVATION & FORCAST SYSTEM			\${24933}		\${22155}		\${13986}		\${16586}
A. GROUND WEATHER			\${19724}		\${15585}		\${9232}		\${12957}
A.1 MOD# 93-008, AUTOMATED WEATHER DISTRIBUTION SYSTEM (AWDS)	A		\$925		\$818		\$1822		
A.2 MOD# 94-003A, NEXRAD TRANSMITTER UPGRADE	A		\$1,800		\$533				
A.3 MOD# 94-003B, RADAR DATA ACQUISITION (RDA) GROUP MIGRATION	A				\$2,200		\$1,494		\$2,095
A.4 MOD# 94-004A, RADAR PRODUCT GENERATOR (RPG) MIGRATION	A		\$904		\$1,182		\$1,200		
A.5 MOD# 94-004B, PRINCIPLE USER PROCESSOR (PUP) GROUP REPLACEMENT	A		\$635		\$2,000		\$1,970		\$1,440
A.6 MOD# 94-008, CENTRALIZED DATABASE MANAGEMENT SYSTEM (CDMS) UPGRADE	A		\$1,735						
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A.7 MOD# 95-001, AIR FORCE WEATHER AGENCY (AFWA) DIAL-IN SUBSYSTEM (AFDIS)/AIR FORCE WEATHER INFORMATION NETWORK (AFWIN)	A		\$5,410						
A.8 MOD# 95-003, WEATHER INFORMATION PROCESSING SYSTEM (WIPS) UPGRADE	A				\$5,393		\$1,800		
A.9 MOD# 95-010, TACTICAL FORECAST SYSTEM (TFS)/AWDS MERGED SYS TFS-2000	A		\$6,787		\$1,713				
A.10 MOD# 95-011, TACTICAL METEROLOGICAL (TACMET) OBSERVING SYSTEM UPGRADE	A		\$1,528		\$1,746		\$946		
A.11 MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM	A								\$2,600
A.12 MOD# 98,002, PRODUCT TAILORING/WARFIGHTER APPLICATION PROGRAM	A								\$3,500
A.13 MOD# 98-003, WEATHER FORECASTING	A								\$3,322
B. SPACE WEATHER			\${5209}		\${6570}		\${4754}		\${3629}
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
B.1 MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN) MOD FOR SRBL	A		\$2,180		\$1,454		\$300		
B.2 MOD# 96-001, SOLAR ELECTRO-OPTICAL NETWORK (SEON) SOLAR MAX (SSM)	A		\$3,029		\$50		\$150		
B.3 MOD# 96-031, IMPROVED SOLAR OBSERVING OPTICAL NETWORK (ISOON)	A				\$5,066		\$3,268		\$100
B.4 MOD# TBD, SPACE WEATHER IONOSPHERIC CHARACTERIZATION SYSTEM (SWICS)	A						\$1,036		\$3,529
7. REMOTE APPLICATION POWER & FIRE SUPPRESSION									\${1600}
MOD # TBD, AN/FPS-117 RADAR	A								\$1,600
8. RANGE THREAT									\${1332}
MOD # TBD, DIGITAL SUB-SYSTEM (DSS) AN/MPQ-T3	A								\$1,332

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
Totals:			\$49,648		\$57,022		\$56,195		\$48,338
Remarks:									
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INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A)														DATE: FEBRUARY 1999										
Modification Title and No: Ballistic Missile Early Warning System (BMEWS) - Clear Alaska														Models of Systems Affected: Ballistic Missile Early Warning System (BMEWS)										
Description/Justification: Clear Air Upgrade (CAU) (CRU) is for the existing BMEWS, Clear Air Station Alaska. CRU will correct deficiencies by replacing the mechanical radar with Solid State Phased Array Radar using the Prime Mission Equipment (PME) removed from the Eldorado AS, TX PAVE PAWS radar. New heaters, feed wires, and security, training & comm equipment will be procured. FY98 MILCON funds a new facility for the system. FY98 funds system engineering, tech studies of the security and communications systems, and security support equipment. FY99 funds software and communications support equipment. FY00 funds the major portion of system integration and testing and install of communications and training equipment.																								
Development Status/Major Development Milestones: Prime contractor selected Oct 97; Facility construction started Mar 98, radar PME option awarded Dec 97; Equipment relocation option award Dec 98; System prime mission equipment install Apr 99; System integration and test option award Nov 99; OOT&E Nov 00; Required IOC Jan 01.																								
Financial Plan \$ (in Millions)		PY		FY1998		FY1999		FY2000		FY2001		FY2002		TOTAL										
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty		Qty	Cost	Qty	Cost									
RDT&E																								
Ref. R-1 PE No:														0										
Procurement:																								
Equipment Kits				1	4.0	1	6.5	1	4.0					3	14.5									
Equipment Kits Non-recurring					1.3		2.0		.6					0	3.9									
Engineering Change Orders														0										
Data					.1		.2		.1					0	0.4									
Training Equipment							.3							0	0.3									
Support Equipment					2.3		1.3							0	3.6									
Software							2.6							0	2.6									
Interim Contractor Support														0										
Other					1.84		1.463		4.010					0	7.3									
Total Procurement Costs:		0		1	9.5	1	14.4	1	8.7	0		0		3	32.6									
Hardware Installation:																								
(PY) Eqpt (Kits)																								
(FY98) Eqpt (1 Kits)				1	3.0									1	3									
(FY99) Eqpt (1 Kits)						1	7.5							1	7.5									
(FY00) Eqpt (1 Kits)								1	12.2					1	12.2									
(FY01) Eqpt (Kits)														0	0									
(FY02) Eqpt (Kits)														0	0									
Total Installation Costs:		0		1	3	1	7.5	1	12.2	0		0		3	22.7									
Total Modification Costs:		0		1	12.5	1	21.9	1	20.9	0		0		3	55.3									
Method of Installation: CONTRACTOR, FIELD INSTALL						Administrative Lead-time (After 1 Oct): 1 Month(s)						Production Lead-time: 10 Month(s)												
Contract Date:		PY		FY1998	DEC 97	FY1999	NOV 98	FY2000	NOV 99	FY2001		FY2002												
Delivery Date:		PY		FY1998	SEP 98	FY1999	SEP 99	FY2000	SEP 00	FY2001		FY2002												
Installations:		PY	FY1998				FY1999				FY2000				FY2001				FY2002				Total	
			1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH		
Input							1							1										3
Output																	3							3
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INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A) **DATE: FEBRUARY 1999**

Modification Title and No: AN/GPN-12/20 & TPX-42 IFF Display **Models of Systems Affected:** Comm-Electronics-Air Traffic Control and Landing Systems (ATCALS)
Description/Justification: Radar Sets AN/GPN-12 & 20 are the Primary Airport Surveillance Radars (ASR) used by the Air force. It detects aircraft within 60 nautical miles of the radar site and processes radar information for display on a plan-position indicator (PPI). These indicators are used by Air Traffic Controllers to control air traffic within that 60 NMI range normally an airfield. These systems are past their normal life expectancy, extremely costly to operate and becoming unreliable. This modification will replace high failure, high cost components in the transmitter/receiver and data processor. At the same time using state of the art technology the modification will improve reliability and maintainability. If this modification is not accomplished operational rates will decrease and cost to operate will escalate to unmanageable high levels.
Development Status/Major Development Milestones: Configuration Control Board (CCB) Jun 99; specification and Statement of Operations (SOO) Jul 99; contract award Mar 00.

Financial Plan \$ (in Millions)	PY		FY1998		FY1999		FY2000		FY2001		FY2002		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														0
Procurement:														
Equipment Kits							7	7274	8	8541	8	8069	23	23884
Equipment Kits Non-recurring														0
Engineering Change Orders														0
Data														0
Training Equipment														0
Support Equipment														0
Software														0
Interim Contractor Support														0
Other														0
Total Procurement Costs:	0		0		0		7	7274	8	8541	8	8069	23	23884
Hardware Installation:														
(PY) Eqpt (Kits)														0
(FY98) Eqpt (Kits)														0
(FY99) Eqpt (Kits)														0
(FY00) Eqpt (7 Kits)							7						7	0
(FY01) Eqpt (8 Kits)									8				8	0
(FY02) Eqpt (8 Kits)											8		8	0
Total Installation Costs:	0		0		0		7		8		8		23	
Total Modification Costs:	0		0		0		7	7274	8	8541	8	8069	23	23884

Method of Installation: DEPOT, FIELD INSTALL **Administrative Lead-time (After 1 Oct):** 2 Month(s) **Production Lead-time:** 3 Month(s)

Contract Date:	PY		FY1998		FY1999		FY2000	MAR 00	FY2001	JAN 01	FY2002	JAN 02
Delivery Date:	PY		FY1998		FY1999		FY2000	JUN 00	FY2001	MAR 01	FY2002	MAR 02

Installations:	PY	FY1998				FY1999				FY2000				FY2001				FY2002				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
Input										3	2	2		2	2	2	2	2	2	2	2	23
Output										3	2	2		2	2	2	2	2	2	2	2	23

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 00/01

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$11,522	\$11,021	\$10,157	\$11,606	\$10,204	\$11,417	\$15,319	\$15,919
<p>Description:</p> <p>1. The Base/ALC Metrology and Calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages (Electrical, Mechanical and Systems equipment) to all major Air Force activities having a base Precision Measurement Equipment Laboratory (PMEL). PMELs calibrate and repair equipment used to maintain aircraft, missiles, communications and other ground systems. The PMEL is the direct link between the weapon system and the National Institute of Standards and Technology (NIST). This link ensures the systems used by the operational forces perform their primary mission of delivering weapons on target. Presently there are 73 PMELs and four Field Assistance Teams for Calibration (FASTCALs) worldwide, and the FY98-01 program includes funding for all of them. Funding for these calibration standards is required as all major aircraft depend heavily on offensive and defensive microwave avionics that must be calibrated to function properly in a wartime as well as in a training environment. All aircraft engines and airframes also require this calibration support. Additionally, this budget line supports space and airborne communications/electronics systems such as MILSATCOM.</p> <p>2. A group of certified calibration standards is required at each base PMEL to assure accurate traceable measurements are made in the basic areas recognized by the NIST. These basic groups of standards enable each Air Force activity to attain standardized measurements and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment required for daily base operational capability. The standards packages must be constantly surveyed and upgraded to stay current with the measurement art. In addition, as new and sophisticated systems enter the Air Force inventory, it is necessary to augment selected PMELs with special calibration standards or auxiliary equipment, the characteristics of which are critical to the systems supported.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE		
Description (cont.): 3. The following support is provided by the measurement packages: a. The Electrical and Mechanical Packages consist of equipment for calibration of common Test Measurement and Diagnostic Equipment (TMDE). Equipment procured as part of these packages is normally used by PMEL technicians in a laboratory environment. The equipment and standards provided will establish new or upgrade existing calibration capabilities. b. The Electrical Package also provides the PMELs with standards and ancillary equipment used in the electro-optical, radio frequency (RF)/microwave, electrical, Radiation Detection Identification and Computation (RADIAC) technologies, and precise time and frequency measurement areas. c. Additionally, the Mechanical Package includes standards and ancillary equipment for the mass, dimensional, optical, force, vibration, flow, and environmental measurement areas. d. The Systems Package consists of equipment for calibration of common TMDE and Automatic Test Equipment (ATE) outside of a normal PMEL facility. Equipment procured as part of this package is normally used for on-site and/or in-place calibration to reduce the time of equipment non-availability to the user, eliminate the need to disassemble test stations, reduce transportation of delicate equipment, and calibrate to the user's minimum requirement. When not being used for calibration outside the PMEL, this equipment is available for calibration of routine PMEL workload. 4. A reduction to requested funding levels will affect the ability of the Air Force to support current weapon system measurements thus jeopardizing accuracies. Calibration traceability and Test Uncertainty Ratios (TURs) will also be compromised due to lack of state-of-the-art standards.				
	P-1 ITEM NO: 82		PAGE NO: 2	Page 2 of 3

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE			
Description (cont.):					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
(1) ELECTRICAL PACKAGE										
A. HIGH POWER HIGH FREQ SYS	A	6	\$2,520							
B. HIGH POWER MED FREQ SYS	A	11	\$2,695							
C. ILS/MODULATION METER	A	60	\$1,072	20	\$355					
D. AUTOMATED RESISTANCE SYS	A			35	\$2,100	10	\$600	10	\$600	
E. METER CALIBRATOR	A					20	\$700	15	\$525	
F. ATTEN MEASUREMENT RCVR	A			20	\$2,360	10	\$1,180	9	\$1,062	
G. PHASE NOISE AMP MEAS. SYS	A					15	\$2,625	15	\$2,625	
H. PROJECTS LESS THAN \$500K	A		\$1,149		\$1,694		\$755		\$2,276	
(2) MECHANICAL PACKAGE										
A. AF75 VIBRATION CALIBRATION	A	26	\$586							
B. DIGITAL FORCE INDICATOR	A	69	\$1,131							
C. HUMIDITY GENERATOR	A			30	\$825	20	\$550			
D. LOW GAS FLOW STANDARD	A			8	\$600					
E. HYDRAULIC PRESSURE CONT.	A			45	\$1,552					
F. PRECISION MANOMETER	A							2	\$500	
G. ENVIROMENTAL MON SYS	A					10	\$500	20	\$1,000	
H. PROJECTS LESS THAN \$500K	A		\$1,129		\$1,535		\$2,447		\$2,218	
P-1 ITEM NO: 82					PAGE NO: 4			Page 1 of 2		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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) ELECTRICAL PACKAGE										
A. HIGH PWR HIGH FREQ SYS										
FY98	6	420020	AFMETCAL	OPT/FFP	POWER SYS TECH, MELVILLE, NY (1)	NOV 97	JUN 98			
B. HIGH PWR MED FREQ SYS										
FY98	11	245035	AFMETCAL	OPT/FFP	POWER SYS TECH, MELVILLE, NY (2)	NOV 97	JUL 98			
C. ILS/MODULATION METER										
FY98	60	17867	AFMETCAL	C/FFP	TEXTRONIX, BEAVERTON, OR	NOV 97	SEP 98			
FY99	20	17750	AFMETCAL	OPT/FFP	TEXTRONIX, BEAVERTON, OR	AUG 99	FEB 00	Y		
D. AUTOMATED RESIS. SYS										
FY99	35	60000	AFMETCAL	C/FFP	UNKNOWN	JUL 99	FEB 00	N	JUN 99	
FY00	10	60000	AFMETCAL	OPT/FFP	UNKNOWN	JUN 00	DEC 00	N	JUN 99	
FY01	10	60000	AFMETCAL	OPT/FFP	UNKNOWN	JUN 01	DEC 01	N	JUN 99	
P-1 ITEM NO: 82		PAGE NO: 6			Page 1 of 6					

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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	
E. METER CALIBRATOR										
FY00	20	35000	AFMETCAL	C/FFP	UNKNOWN	AUG 00	MAR 01	N	JUL 00	
FY01	15	35000	AFMETCAL	OPT/FFP	UNKNOWN	JUL 01	FEB 02	N	JUL 00	
F. ATTEN MEASURE. RCVR										
FY99	20	118000	AFMETCAL	C/FFP	UNKNOWN	AUG 99	FEB 00	N	JUL 99	
FY00	10	118000	AFMETCAL	OPT/FFP	UNKNOWN	AUG 00	FEB 01	N	JUL 99	
FY01	9	118000	AFMETCAL	OPT/FFP	UNKNOWN	AUG 01	FEB 02	N	JUL 99	
G. PHASE NOISE AMP										
MEAS. SYS										
FY00	15	175000	AFMETCAL	C/FFP	UNKNOWN	AUG 00	FEB 01	N	JUL 00	
FY01	15	175000	AFMETCAL	OPT/FFP	UNKNOWN	AUG 01	FEB 02	N	JUL 00	
		P-1 ITEM NO: 82		PAGE NO: 7		Page 2 of 6				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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	
H. ELECTRICAL PACKAGE										
PROJECTS LESS THAN \$500K										
FY98	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	NOV 97	FEB 98			
FY99	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 98	FEB 99			
FY00	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 99	FEB 00	Y		
FY01	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 00	FEB 01	Y		
(2) MECHANICAL PACKAGE										
A. AF75 VIBRATION CALIB.										
FY98	26	22541	AFMETCAL	C/FFP	MB DYNAMICS INC, BEDFORD HEIGHTS, OH	JUN 98	DEC 98			
B. DIGITAL FORCE										
INDICATOR										
FY98	69	16391	AFMETCAL	OPT/FP	SPECTRIS TECHNOLOGIES (4) DECATUR, GA	NOV 97	DEC 97			
		P-1 ITEM NO: 82		PAGE NO: 8		Page 3 of 6				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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	
C. HUMIDITY GENERATOR										
FY99	30	27500	AFMETCAL	C/FFP	UNKNOWN	JUL 99	JAN 00	Y		
FY00	20	27500	AFMETCAL	OPT/FFP	UNKNOWN	JUL 00	JAN 01	Y		
D. LOW GAS FLOW STANDARD										
FY99	8	75000	AFMETCAL	C/FFP	UNKNOWN	JUN 99	DEC 99	N	MAY 99	
E. HYDRAULIC PRESS CONT.										
FY99	45	34488	AFMETCAL	C/FFP	UNKNOWN	MAY 99	NOV 99	N	APR 99	
F. PRECISION MANOMETER										
FY01	2	250000	AFMETCAL	C/FFP	UNKNOWN	JUL 01	JAN 02	N	JUN 01	
G. ENVIROMENTAL MON SYS										
FY00	10	50000	AFMETCAL	C/FFP	UNKNOWN	JUL 00	DEC 00	N	JUN 00	
FY01	20	50000	AFMETCAL	OPT/FFP	UNKNOWN	JUL 01	DEC 01	N	JUN 01	
		P-1 ITEM NO: 82		PAGE NO: 9		Page 4 of 6				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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	
H. MECHANICAL PACKAGE										
PROJECTS LESS THAN \$500K										
FY98	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	NOV 97	FEB 98			
FY99	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 98	FEB 00			
FY00	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 99	FEB 01	Y		
FY01	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	DEC 00	FEB 02	Y		
(3) SYSTEMS PACKAGE										
A. PATEC LOCAL OSCILLATOR										
FY98	60	19040	AFMETCAL	MIPR/FFP	NAVY, WILTRON CORP	JUN 98	DEC 98			
					MORGAN HILL, CA					
B. STD CONTROLLER										
PATEC/TFCU										
FY00	100	8000	AFMETCAL	C/FFP	UNKNOWN	JUN 00	DEC 00	N	JUN 99	
FY01	100	8000	AFMETCAL	OPT/FFP	UNKNOWN	JUN 01	DEC 01	N	JUN 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
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	
C. SYSTEMS PACKAGE										
PROJECTS LESS THAN \$500K										
FY98	VAR	VAR	AFMETCAL	C/FFP	MULTIPLE (3)	JUN 98	NOV 98			
<p>REMARKS:</p> <ol style="list-style-type: none"> 1. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO POWER SYSTEMS TECHNOLOGY IN JAN 96. 2. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO POWER SYSTEMS TECHNOLOGY IN JAN 96. 3. MULTIPLE COMPETITIVE CONTRACTS ARE USED TO EXECUTE PROJECTS LESS THAN \$500K. THE AWARD DATE AND DATE OF FIRST DELIVERY REPRESENT THE APPROXIMATE FIRST AWARD OF FUNDING AND THE INITIAL DELIVERY OF EQUIPMENT. 4. OPTION TO FY97 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO SPECTRIS TECHNOLOGIES, SEPT 97. 										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$1,099	\$1,064	\$1,071	\$1,105	\$1,067	\$1,100	\$1,125	\$1,150
<p>Description:</p> <p>1. The Primary Standards Laboratory Package consists of measurement standards required by the Air Force Primary Standards Laboratory (AFPSL). These standards and equipment enable the AFPSL to maintain a disciplined system of measurement control to assure standardized calibration of all precision measurement equipment at Precision Measurement Equipment Laboratories (PMELs) which in turn support aircraft, missiles and ground communications and space systems.</p> <p>2. FY98-01 AFPSL funding supports all Air Force PMELs by providing the master calibration capability traceable to the National Institute of Standards and Technology (NIST), as well as specialized test and calibration support needed for Air Force research and development. Measurement standards and auxiliary measurement equipment are grouped in three packages: (a) Electrical, Photonics and Nucleonics Package, (b) Mechanical and Physical Package, and (c) Systems Package.</p> <p style="padding-left: 20px;">(a) The Electrical, Photonics & Nucleonics Package includes equipment to measure electrical units such as alternating current (AC) and direct current (DC) volts; resistance, and precise time and frequency; microwave/millimeter wave; radio frequency (RF) power, modulation, and phase noise; photonics/nucleonics quantities such as fiber optic power, spectral radiance and infrared thermometry; and laser power.</p> <p style="padding-left: 20px;">(b) The Mechanical and Physical Package includes equipment to measure pressure, force, flow and vibration, and dimensional quantities such as length, flatness, and angle.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE			
Description (cont.): (c) The Systems Package includes Automatic Test Equipment (ATE) equipment used in calibration software and procedure development projects. 3. Although AFPSL calibration services and the generation of calibration technical orders are performed by a private contractor, funding for new and enhanced calibration standards equipment remain an Air Force responsibility. Management of the Air Force Metrology and Calibration (AFMETCAL) Program remains an Air Force organic program. Air Force responsibilities include the identification and development of Air Force metrology and calibration requirements, calibration procedures development and management, and budgeting and acquisition of calibration standards. The operating contractor is provided Air Force Government Furnished Equipment (GFE). As the Air Force places more reliance on high technology weapons systems for our national security, the need for accurate and precise measurements becomes increasingly important. The accuracy, precision, and safety of Air Force systems are all traced back to the measurement standards of the AFPSL.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. ELECTRICAL, PHOTONICS	A		\$641		\$743		\$730		\$635
& NUCLEONICS PACKAGE									
ITEMS LESS THAN \$500K									
B. MECHANICAL & PHYSICAL	A		\$458		\$321		\$301		\$470
PACKAGE									
ITEMS LESS THAN \$500K									
C. SYSTEMS PACKAGE	A						\$40		
ITEMS LESS THAN \$500K									
Totals:			\$1,099		\$1,064		\$1,071		\$1,105
Remarks:									
		P-1 ITEM NO: 83				PAGE NO: 14		Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (TEST EQUIPMENT)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$7,477	\$6,706	\$9,750	\$9,541	\$17,391	\$15,722	\$15,825	\$16,068
<p>Description:</p> <p>1. This program includes hundreds of test and measurement equipment items used throughout the Air Force. The equipment is used in Precision Measurement Equipment Laboratories (PMELs), Avionics Integrated Support Facilities (AISFs), Automated Test Support Facilities, Centralized Radio Shops, Radio/Radar Repair Shops, and Maintenance Shops. This equipment is also used to calibrate aircraft Avionics Intermediate Shop equipment. Failure to procure this equipment will inhibit performance of detailed analysis investigations; will impair the maintenance, repair and calibration of state-of-the-art measurement devices leading to increased avionics and communications equipment downtime; and may result in impairment of safety of flight as well as grounding of aircraft with direct impact on Air Force missions.</p> <p>2. There are approximately 7,500 individual test items procured in this line. FY00 and FY01 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY00 and FY01 are identified on the following P-40a.</p>								
P-1 ITEM NO: 84				PAGE NO: 15		Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (TEST EQUIPMENT)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
SPECTRUM ANALYZER	6625012890854	90	\$1,440	15	\$348
OSCILLOSCOPE SYSTEM	6625014504919YA	113	\$1,986	64	\$1,146
DIGITAL DATA ANALYZER	6625014363603	61	\$866	1	\$15
WR-ALC INTEGRATED SUPPORT FACILITY			\$350		\$175
FSC 4920 - AIRCRAFT & REPAIR SHOP EQP			\$400		\$740
FSC 4940 - MISC REPAIR SHOP EQP			\$73		\$152
FSC 5860 - COHERENT RADIATION DEVICES			\$113		\$132
FSC 5915 - FILTERS ND NETWORKS			\$120		\$253
FSC 5985 - ANTENNAS, WAVE GUIDES			\$150		\$266
FSC 5996 - CABLE, CORD & WIRE ASSY			\$226		\$240
FSC 5998 - ELECT & ELECTRONIC ASSY			\$122		\$182
FSC 6130 - CONVERTERS, ELECTRICAL			\$106		\$287
FSC 6150 - MISC ELECT POWER			\$108		\$243
FSC 6625 - MEASURING & TEST EQP			\$3,214		\$4,671
FSC 6630 - CHEMICAL ANALYSIS EQP			\$144		\$380
FSC 6650 - OPTICAL INSTRUMENTS			\$230		\$210
FSC 6680 - MECH MOTION INSTRUMENTS			\$102		\$101
TOTALS:			\$9,750		\$9,541
		P-1 ITEM NO: 84			PAGE NO: 16
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$5,004	\$6,118	\$2,800	\$2,861	\$3,369	\$3,866	\$5,618	\$5,786
<p>Description:</p> <p>1. Modern warfare has led to an increase in airborne combat under the cover of darkness. Night missions include ground operations, encompassing 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. Night Vision Goggles (NVGs) provide the capability to see in night/low visibility conditions, are essential for combat rescue and special operations missions, and reduce the possibility of mid-air collisions during combat/non-combat missions. The goggles are helmet-mounted; battery and/or aircraft powered, and weigh approximately 12 to 30 ounces. There are two versions of the NVG: aircrew goggles used by pilots and ground crew goggles used by security police in air defense, counter-narcotics and anti-terrorist operations.</p> <p>2. The current night capability of the Combat Air Force (CAF) is extremely limited due to the lack of NVGs. Only approximately 12 percent of CAF fighter and attack aircraft are equipped with NVGs. This lack of 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. Use of NVGs is 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 following aircrew and ground crew goggles plus test equipment are being procured with FY98-01 funding:</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: NIGHT VISION GOGGLES		
Description (cont.): <p>a. AN/PVS-7D Ground crew Goggle. These ground crew goggles are used primarily by security police in conducting air base defense, counter-narcotics and anti-terrorist operations. The units are also used by the base recovery after-attack teams and by some non-cockpit aircrew members. The goggles are monocular with a third-generation image intensifier. FY98-01 funding continues procurement of these goggles.</p> <p>b. F-4949 Aircrew Goggle. The 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 helmet mounted and weigh approximately 28 ounces. The F-4949 goggles are used by Air Combat Command, Air Mobility Command, Air Education and Training Command, United States Air Forces Europe, Pacific Air Force, Air Force Space Command, Air Force Special Operations Command, the Air National Guard and Air Force Reserve. FY98-01 funding continues procurement of these goggles.</p> <p>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 proper evaluation and adjustment of all goggle parameters to be done quickly and accurately. FY98-01 funding continues procurement of these test sets.</p> <p>d. Test Set, Infrared Viewer. The ANV-126 NVG Infrared Viewer Test Set is a portable instrument for evaluating the performance or to properly "tune" the goggles. FY98-01 funding continues procurement of these test sets.</p>				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (PERSONAL SAFETY & RESCUE EQ)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$3,389	\$3,528	\$3,559	\$5,610	\$5,913	\$8,463	\$7,323	\$4,720
Description: <p>1. This program contains numerous items of safety and rescue equipment used throughout the Air Force for protection of Air Force personnel, equipment and facilities. Typical items are anti-exposure coveralls, parachutes, life rafts, life preservers, and toxic indicators. Also included are deployable fire protection systems which augment normal fire-fighting equipment in a wartime environment by protecting aircraft during hot integrated combat turns, and providing limited quick reaction protection for high value facilities and equipment during water outages. Personal safety and rescue equipment is essential for the safety, rescue and protection of all Air Force resources.</p> <p>2. FY00 and FY01 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY00 and FY01 are identified on the following P-40A.</p>								
		P-1 ITEM NO: 86			PAGE NO: 20			Page 1 of 1

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (PERSONAL SAFETY & RESCUE EQ)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
LIFE RAFT, 20 MAN	4220005633567LS	168	\$364	114	\$249
TEST SET, RADIO TS-4317-3	6625014222485LS	11	\$273	20	\$505
ADAPTER, TEST J-1603	6625014218180LS	7	\$119	20	\$346
ANTI-EXPOSURE COVERALLS	8475007682048	518	\$205	901	\$355
COMBUSTIBLE GAS ALARM	6665009416554	20	\$95	41	\$212
LIFE PRESERVER, MB-1	4220006061994LS	401	\$163	408	\$169
LIFE RAFT, ONE MAN	4220010036763LS	560	\$147	594	\$159
PASSENGER FLOTATION DEVICE	NSL			24675	\$987
PARACHUTE REPLACEMENT	NSL			371	\$1,000
DECONTAMINATION UNIT	4230012518702	20	\$406	20	\$407
DEMINERALIZER, WATER (MROD)	4610013136085	500	\$293	500	\$299
DEPLOYABLE FIRE PROTECTION SYSTEM (DFPS)	NSL	12	\$931	8	\$604
ADVANCED TECHNOLOGY ANTI-G SUIT (ATAGS)	8475014430712LS	266	\$500	0	\$0
FSC 4210 - FIRE FIGHTING EQUIPMENT			\$17		\$17
FSC 4240 - SAFETY & RESCUE EQUIP			\$30		\$293
FSC 4610 - WATER PURIFICATION			\$16		\$7
FSC 5120 - NONEDGED/NONPOWERED TOOLS					\$1
TOTALS:			\$3,559		\$5,610

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$10,917	\$18,516	\$15,320	\$15,118	\$14,277	\$14,501	\$14,550	\$14,820
<p>Description:</p> <p>1. The Mechanized Material Handling Equipment program line provides funding for Mechanized Material Handling Systems (MMHS), Storage Aids Systems (SAS), and Automated Information Technology (AIT) projects.</p> <p style="padding-left: 20px;">a. MMHS/SAS programs provide bases worldwide with automated and static equipment for storing, receiving, and shipping material. MMHS/SAS equipment involves the design and acquisition of mechanized and non-automated material handling systems and storage aid systems for all Air Force supply and transportation facilities. Supply systems generally include equipment such as receiving-storage-distribution systems (RSDS), automated guided vehicle systems (AGVS), high density storage systems (HDSS), small parts handling systems (SPHS), carousel systems, conveyor systems, mezzanines, and a variety of racks, bin shelving and modular cabinets. Transportation systems generally include equipment such as aircraft passenger loading bridges and inbound/outbound (IB/OB) baggage conveyor systems for passenger terminals, heavy duty freight handling conveyors, pallet build-up-breakdown stations, elevating transfer vehicles, cargo storage/retrieval rack structures, and overhead bridge cranes for air freight terminal (AFT) systems; roller conveyor, cranes, and hoists for aerial delivery facilities (ADF); and a variety of conveyor systems with associated process control systems for air mail terminals (AMT). Adequately equipped facilities are essential to the storage and handling of weapon system components and the processing of personnel, baggage, mail and freight in a manner which reduces the pipeline time and improves Air Force capability to respond to crises and threats wherever 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 logistical materials, increases the flexibility at a minimum investment cost, enhances safe operations, reduces losses due to damage of materials in transport or storage, and reduces congestion and delays in air terminals.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT		
Description (cont.): b. AIT is a collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification (RFID), smart cards, memory cards, laser cards, touch memory, 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 and industry standards in the core areas of supply, transportation, and maintenance as well as weaving commercial AIT business practices and standards into the Air Force logistics infrastructure. Supply Asset Tracking System (SATS) is one example of an AIT project. SATS provides total asset visibility and reduces documentation at base level. It is a front-end processor application to the Standard Base Supply System that tracks all assets in base supply in a real-time mode. SATS incorporates radio frequency terminals, smart cards, and electronically confirms each transaction to eliminate documentation in the delivery process. Implementation has occurred at Shaw and Eglin AFBs, and Aviano and Ramstein ABs. In FY99, a \$4 million congressional add provides funding to expedite implementation of SATS. 2. MMHS/SAS/AIT equipment by major command and individual projects are listed on the following P-40A and P-5A documents.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AIR COMBAT COMMAND	A		\$511		\$625		\$400		\$500
2. AIR EDUCATION & TRAINING COMMAND			\$986		\$500		\$250		\$300
3. AF CIVIL ENGINEERING & SUPPORT ACTIVITY	A		\$1461		\$650		\$200		\$400
4. AIR FORCE MATERIEL COMMAND	A		\$1056		\$875		\$400		\$1,600
5. AF RESERVES	A				\$100		\$200		
6. AF SPECIAL OPERATIONS COMMAND					\$250				
7. AIR FORCE SPACE COMMAND	A								\$700
8. AIR MOBILITY COMMAND	A		\$3443		\$8,500		\$10,225		\$6,900
9. AIR NATIONAL GUARD	A		\$963		\$723		\$573		\$2,074
10. PACIFIC AIR FORCES	A		\$482				\$300		\$250
11. US AIR FORCES EUROPE	A				\$400		\$580		\$300
12. USAF-WIDE/AIT	A		\$2,015		\$1,893		\$2,192		\$2,094
A. USAF-WIDE SATS	A				\$4,000				
Totals:			\$10,917		\$18,516		\$15,320		\$15,118
Remarks:									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
1. AIR COMBAT COMMAND										
MISC SAS										
FY 98		511000	AFMC/LSO	C/FFP	MULTIPLE [1]	JUL 98	OCT 98			
FY 01		500000	AFMC/LSO	C/FFP	MULTIPLE [1]	JUL 01	OCT 02	N	JAN 01	
INDIAN SPRINGS, NV										
HIGH DENSITY STORAGE										
SYSTEM FY98										
MCP LKTC983103										
FY 99		50000	AFMC/LSO	MIPR/C/FFP	ARMY / CORP OF ENGINEERS	MAR 99	SEP 99	N	FEB 99	
					UNKNOWN					
ELLSWORTH AFB, SD										
SAS HAZMART										
FY 99		100000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	JAN 00	N	FEB 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
SHAW AFB, SC										
SAS WAREHOUSE										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	JAN 00	Y		
OFFUTT AFB, NE										
SAS MOBILITY BAGS										
FY 99		225000	AFMC/LSO	C/FFP	UNKNOWN	APR 99	AUG 99	Y		
MOODY AFB, GA										
SAS C-130										
AIRCRAFT PARTS STORE										
FY 99		50000	AFMC/LSO	C/FFP	UNKNOWN	APR 99	JUL 99	Y		
DYESS AFB, TX										
SAS C-130B										
AIRCRAFT PARTS STORE										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	JUN 00	NOV 00	N	NOV 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
SOTO CANO AB, HONDURAS										
SAS/INBOUND/OUTBOUND										
IB/OB CONVEYOR										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	JUN 00	NOV 00	N	DEC 99	
2. AIR EDUCATION & TRAINING COMMAND										
SHEPPARD AFB, TX										
RECEIVING AND STORAGE SYSTEM										
FY96 MCP VNVP902005										
FY 98		597000	AFMC/LSO	C/FFP	GENESYS INC, WINTER SPRINGS, FL	NOV 98	MAR 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
TYNDALL AFB, FL										
SAS SUPPLY WAREHOUSE										
MCP XLWU93038										
FY 98		389000	AFMC/LSO	C/FFP	GENESYS INC, WINTER SPRINGS, FL	JUN 98	DEC 98			
SHEPPARD AFB, TX										
FWD ASSET SUPPORT										
TRAINING AIRCRAFT										
PARTS STORE										
FY 99		300000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	JAN 00	Y		
RANDOLPH AFB, TX										
SAS										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	JAN 00	N	FEB 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
LANGLEY AFB, VA										
SAS MCP										
MUHJ943008										
FY 98		90000	AFMC/LSO	C/FFP	US MATERIEL HANDLING	OCT 98	APR 99			
					SYRACUSE, NEW YORK					
MISC SAS										
FY 98		1371000	AFMC/LSO	C/FFP	MULTIPLE [1]	SEP 98	JAN 99			
VANCE AFB, OK										
SAS CE IOE										
MCP DACA 56-97-C-0047										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	SEP 99	SEP 00	Y		
ELLSWORTH AFB, SD										
SAS										
FY 99		100000	AFMC/LSO	C/FFP	UNKNOWN	AUG 99	DEC 99	N	FEB 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
FAIRCHILD AFB, WA										
INTEGRATED MAIN FACILITY										
HOIST REPLACEMENT										
FY 99		350000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	DEC 99	Y		
SCOTT AFB, IL										
MECHANIZED HANDLING SYS										
GOV OPER CE STORE										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	MAY 00	NOV 00	N	NOV 99	
MINOT AFB, ND										
SAS CE										
FY 01		200000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
MOUNTAIN HOME AFB, ID										
SAS CE										
FY 01		200000	AFMC/LSO	C/FFP	UNKNOWN	FEB 01	SEP 01	N	SEP 00	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
4. AIR FORCE MATERIEL										
COMMAND										
DAVIS MONTHAN AFB, AZ										
AMARC BASE SUPPLY										
MCP FBNV973502										
FY 98		534000	AFMC/LSO	C/FFP	INTERNATIONAL AUTOMATED SYS	FEB 98	AUG 98			
					ST PAUL, MN					
EGLIN AFB, FL										
REPLACE DOCK LEVELERS										
BLDG 612										
FY 98		80000	AFMC/LSO	C/FFP	JOHNL AND ASSOCIATES, INC	OCT 98	JAN 99			
					BIRMINGHAM, AL					
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
ROBINS AFB, GA										
SPHS BLDG 301										
FY 98		80000	AFMC/LSO	C/FFP	SOUTHERN MATERIEL HANDLING	NOV 98	FEB 99			
					MONTGOMERY, AL					
ROBINS AFB, GA										
AUTOMATED STG/RETR										
SYSTEM BLDG 640										
& BLDG 645										
FY 98		197000	AFMC/LSO	C/FFP	SILOAD RETREIVAL SYSTEMS	AUG 98	FEB 99			
					BROOKLYN, NY					
ROBINS AFB, GA										
SPHS C-141										
FY 98		165000	AFMC/LSO	C/FFP	WERRES CORP, FREDERICK, MD	AUG 98	FEB 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
EDWARDS AFB, CA										
SPHS										
FY 99		300000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	DEC 99	N	FEB 99	
ROBINS AFB, GA										
RECEIVING AND STORAGE										
SYSTEM										
F-15 SEAT SHOP										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	APR 99	FEB 00	Y		
KIRTLAND AFB, NM										
MOBILITY BAG ASSY										
ISSUE FACILITY										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	MAR 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
ROBINS AFB, GA										
VERTICAL CAROUSEL SYS										
TOOL ISSUE BLDG 640										
FY 99		70000	AFMC/LSO	C/FFP	UNKNOWN	APR 99	MAR 00	Y		
ROBINS AFB, GA										
BRIDGE CRANE SYSTEM										
COMPOSITE FACILITY										
FY 99		105000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	MAR 00	Y		
ROBINS AFB, GA										
SUPPLY WAREHOUSE IOE										
FY 99 MCP UHHZ880013										
FY 00		400000	AFMC/LSO	C/FFP	UNKNOWN	MAR 00	DEC 00	N	AUG 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
5. AIR FORCE RESERVE										
YOUNGSTOWN AFRB, OH										
MECH OF AIR DELIVERY										
FACILITY										
FY 99		100000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	SEP 99	Y		
DOBBINS AFRB, GA										
SAS										
BLDG 812										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	APR 00	JAN 01	N	OCT 99	
6. AIR FORCE SPECIAL										
OPERATIONS COMMAND										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
8. AIR MOBILITY COMMAND										
MISC SAS - SQ OPS MCP										
FY 98		194000	AFMC/LSO	MIPR/C/FFP	ARMY / SPACESAVER STG SYS	DEC 98	JUN 99			
					LAS CRUCES, NM					
FY 99		550000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	DEC 99	N	FEB 99	
FY 00		725000	AFMC/LSO	C/FFP	UNKNOWN	JUN 00	DEC 00	N	JAN 00	
FY 01		150000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	DEC 01	N	JAN 01	
ANDERSEN AB, GUAM										
SAS FWD SUPPLY LOCATION										
IOE FY 97										
MCP AJJY97-1107A/B										
FY 98		84000	AFMC/LSO	C/FFP	INTERNATIONAL AUTOMATED SYS	SEP 98	MAY 99			
					TULLAHOMA, TN					
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
ANDREWS AFB, MD										
IB/OB CONVEYOR										
MCP AJXF95-1579										
FY 98		130000	AFMC/LSO	C/FFP	HORSLEY CORP, OGDEN, UT	SEP 98	FEB 99			
CHARLESTON AFB, SC										
CARGO LOADING DOCK										
CATWALKS										
FY 98		41000	AFMC/LSO	C/FFP	GENESYS INC, WINTER SPRINGS, FL	SEP 98	MAR 99			
KADENA AB, KOREA										
SAS FWD SUPPLY LOCATION										
IOE F 97 MCP LXEZ97-1230										
FY 98		165000	AFMC/LSO	C/FFP	INTERNATIONAL AUTOMATED SYS, ST. PAUL, MN	SEP 98	FEB 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
MACDILL AFB, FL										
CENTRALIZED LIFE SUPPORT										
MCP NYZR973718										
FY 98		46000	AFMC/LSO	C/FFP	SPACESAVER STG SYS, TAMPA, FL	AUG 98	MAR 99			
NAPLES NAS, ITALY										
IB/OB CONVEYOR										
IOE FY98										
MILCON P-196										
FY 98		300000	AFMC/LSO	MIPR/C/FFP	ALA COSTRUZIONI SPA	SEP 98	JUL 99			
					NAPLES, ITALY					
NAPLES NAS, ITALY										
MECH OF AIR FREIGHT										
TERMINAL IOE FY97										
MILCON P-112										
FY 98		251000	AFMC/LSO	C/FFP	GENESYS INC., WINTER SPRINGS, FL	SEP 98	AUG 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
NORFOLK NAS, VA										
IB/OB BRIDGE										
MILCON P-296										
FY 98		975000	AFMC/LSO	WP/FFP	NAVY / AIR STATION CONST DIV	FEB 98	MAR 00			
					NORFOLK, VA					
RAMSTEIN AB, GERMANY										
IB/OB CONVEYOR										
FY 97 PIK										
FY 98		392000	AFMC/LSO	C/FFP	HORSLEY CORP, OGDEN, UT	SEP 98	FEB 99			
ANDERSEN AFB, GUAM										
SAS FLEET SERVICE FAC										
FY 98		20000	AFMC/LSO	C/FFP	SYSTEM CENTER INC, HONOLULU, HI	AUG 98	DEC 98			
CHARLESTON AFB, SC										
BALL TRANSFER CONVEYOR										
FY 98		50000	AFMC/LSO	C/FFP	GENESYS INC., WINTER SPRINGS, FL	OCT 98	MAR 99			
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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	
JACKSONVILLE NAS, FL										
IB/OB CONVEYOR										
FY 98		90000	AFMC/LSO	C/FFP	JERVIS WEBB CO. MARIETTA, GA	SEP 98	MAY 99			
NORFOLK NAS, VA										
DOCK COVERS/SCISSOR JACKS										
FY98		30000	AFMC/LSO	C/FFP	ATLANTIC LIFT SYS INC., NORFOLK, VA	NOV 98	JAN 99			
MCCHORD AFB, WA										
STAGE DOCK EXTENSIONS										
FY98		500000	AFMC/LSO	C/FFP	UNKNOWN	AUG 99	OCT 99	Y		
MACDILL AFB, FL										
DOCK LEVELERS										
FY98		25000	AFMC/LSO	C/FFP	UNKNOWN	MAY 99	SEP 99	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
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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	
MCCHORD AFB, WA										
BRIDGE CRANES										
MCP PQWY973059,										
PQWY993050										
PQWY993059										
FY98		150000	AFMC/LSO	MIPR/FFP	ARMY / CORPS OF ENGINEERS, SEATTLE, WA	APR 99	AUG 99	Y		
MCGUIRE AFB, NJ										
MECH OF AIR MOBILITY OPS										
GROUP MCP PTF983005										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	OCT 99	N	FEB 99	
KADENA AB, JAPAN										
IB/OB JFY95USFJA343-D5										
BLDG 3409										
FY 99		300000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	AUG 00	N	FEB 99	
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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	
YOKOTA AB, JAPAN										
SAS FWD SUPPLY LOCATION										
TOOL CRIB IOE										
MCP ZNRE9701109										
FY 99		300000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	FEB 00	N	MAR 99	
KADENA AB, JAPAN										
MECH OF INBOUND AIR										
FREIGHT TERMINAL										
JFY95USFJAF373-D5										
FY 99		6000000	AFMC/LSO	C/FFP	UNKNOWN (2)	SEP 99	JUN 00	Y		
RAMSTEIN AB, GERMANY										
INTERIM AIR FREIGHT										
TERMINAL INBOUND										
FY 99		500000	AFMC/LSO	C/FFP	UNKNOWN	SEP 99	DEC 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
YOKOTA AB, JAPAN										
IB/OB CONVEYOR										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	APR 00	Y		
TRAVIS AFB, CA										
SAS MOBILITY STORAGE										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	APR 99	AUG 99	Y		
SCOTT AFB, IL										
SAS WAREHOUSE										
FY 99		100000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	DEC 99	Y		
DOVER AFB, DE										
CRANE REPLACEMENT										
FY 99		150000	AFMC/LSO	C/FFP	UNKNOWN	JUL 99	FEB 00	Y		
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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	
CHARLESTON AFB, SC										
CENTRALIZED LIFE SUPPORT										
IOE FY 99 MCP DKFX993007										
FY 00		250000	AFMC/LSO	C/FFP	UNKNOWN	FEB 00	JUN 00	N	NOV 99	
MCCHORD AFB, WA										
HIGH DENSITY STORAGE										
SYSTEM PARTS STG										
FY99 MCP PQWI983054										
FY 00		600000	AFMC/LSO	C/FFP	UNKNOWN	JUN 00	NOV 00	N	NOV 99	
KADENA AB, JAPAN										
MECH OF OUTBOUND										
SPSH										
USFJAF373-D5 PHASE II										
FY 00		6150000	AFMC/LSO	OPT/FFP	UNKNOWN (2)	OCT 99	DEC 00	Y		

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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	
KADENA AB, JAPAN										
PREPACK DOCK										
FY 00		2500000	AFMC/LSO	OPT/FFP	UNKNOWN (2)	OCT 99	DEC 00	N	FEB 99	
RAMSTEIN AB, GERMANY										
MECH OF INBOUND										
AIR FREIGHT TERMINAL										
FY 01		6000000	AFMC/LSO	C/FFP	UNKNOWN	SEP 01	DEC 02	N	DEC 00	
MACDILL AFB, FL										
SAS SUPPLY										
FY 01		250000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
MCCONNELL AFB, KS										
SAS WAREHOUSE										
FY 01		200000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
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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	
ROOSEVELT ROADS, PR										
IB/OB CONVEYOR										
FY 01		300000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	DEC 01	N	DEC 00	
9. AIR NATIONAL GUARD										
DALLAS ANGB, TX										
SUPPLY MCP DDPF909506										
FY 98		243000	AFMC/LSO	C/FFP	GENESYS INC, WINTER SPRINGS, FL	AUG 98	DEC 98			
FT WAYNE ANGB, IN										
RECEIVING AND STORAGE SYSTEM										
IOE FY96 MCP ATQZ001054										
FY 98		179000	AFMC/LSO	C/FFP	INTEGRATED CONV ENGINEERING ORLANDO, FL	APR 98	OCT 98			
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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	
GOWEN FIELD BOISE, ID										
MECH AERIAL PORT FLIGHT										
MCP BXRH969622										
FY 99		180000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	NOV 99	Y		
MINNESPOLIS ANGB, MN										
BCE MAINT COMPLEX										
MCP QJKL939859										
FY 99		212000	AFMC/LSO	C/FFP	UNKNOWN	MAY 99	JUN 99	Y		
ILLINOIS ANGB, IL										
HDSS										
MCP VDYD959691										
FY 99		200000	AFMC/LSO	C/FFP	UNKNOWN	JUN 99	OCT 99	N	FEB 99	
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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	
BUCKLEY ANGB, CO										
SAS TRAFFIC MGT OFFICE										
FY 99		131000	AFMC/LSO	C/FFP	UNKNOWN	AUG 99	JAN 00	N	FEB 99	
SPRINGFIELD ANGB, OH										
MECH SUPPLY COMPLEX										
MCP WAAR969573										
FY 00		398000	AFMC/LSO	C/FFP	UNKNOWN	NOV 99	MAY 00	N	JUN 99	
JACKSONVILLE ANGB, FL										
VERTICAL STORAGE/ RETRIEVAL SYSTEM										
FY 00		175000	AFMC/LSO	C/FFP	UNKNOWN	APR 00	NOV 00	N	NOV 99	
ELLINGTON ANGB, TX										
BASE SUPPLY COMPLEX										
MCP FWJH939520										
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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
FY 01		250000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	DEC 01	N	DEC 00	
MCGUIRE AFB, NJ										
MECH CE MAINT COMPLEX										
MCP PTFL000602										
FY 01		260000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
STANDIFORD ANGB, KY										
MECH AERIAL PORT										
TERMINAL MCP WEAS959620										
FY 01		275000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	DEC 01	N	NOV 00	
TOLEDO ANGB, OH										
MECH SUPPLY/SP COMPLEX										
MCP WYTD969584										
FY 01		200000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
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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	
KINGSTOWN ANGB, RI										
MECH BASE SUPPLY										
FY 01		225000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	MAR 02	N	NOV 00	
CHANNEL ISLAND ANGB, CA										
SUPPLY DISTRIBUTION SYS										
FY 01		250000	AFMC/LSO	C/FFP	UNKNOWN	FEB 01	SEP 01	N	SEP 00	
SAN FRANCISCO ANGB, CA										
SAS WAREHOUSE										
FY 01		225000	AFMC/LSO	C/FFP	UNKNOWN	APR 01	SEP 01	N	NOV 00	
WESTHAMPTON BEACH, VA										
SAS WAREHOUSE										
FY 01		230000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	JUL 01	N	OCT 00	
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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	
GREAT FALLS ANGB, MT										
MECH BASE SUPPLY										
FY 01		159000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	NOV 01	N	NOV 00	
10. PACIFIC AIR FORCES										
NAHA AIRPORT, JAPAN										
AIR MAIL TERMINAL										
FY 98		99000	AFMC/LSO	C/FFP	GENESYS INC,	SEP 98	MAR 99			
					WINTER SPRINGS, FL AND TULLAHOMA, TN					
YOKOTA AB, JAPAN										
AIR MAIL TERMINAL										
FY 98		383000	AFMC/LSO	C/FFP	GENESYS INC,	SEP 98	MAR 99			
					WINTER SPRINGS, FL AND TULLAHOMA, TN					

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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
MISAWA AB, JAPAN										
MECH WRM STORAGE BLDG										
FY 00		300000	AFMC/LSO	C/FFP	UNKNOWN	JUN 00	DEC 00	N	NOV 99	
YOKOTA AB, JAPAN										
SAS HAZMAT										
FY 01		250000	AFMC/LSO	C/FFP	UNKNOWN	JUN 01	JAN 02	N	DEC 00	
11. US AIR FORCES EUROPE										
RAMSTEIN AB, GERMANY										
ELEC FORKLIFT/TIRE RACK										
BSS/IEU BLDG 2127										
FY 99		400000	AFMC/LSO	C/FFP	UNKNOWN	MAR 99	OCT 99	Y		
AVIANO AB, ITALY										
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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	
RETREIVAL/DISTR SYS										
FY 00		180000	AFMC/LSO	C/FFP	UNKNOWN	FEB 00	SEP 00	N	SEP 99	
AVIANO AB, ITALY										
HDSS										
AIRCRAFT PARTS STORE										
BLDG 1029										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	FEB 00	SEP 00	N	SEP 99	
AVIANO AB, ITALY										
HDSS										
AIRCRAFT PARTS STORE										
BLDG 1227										
FY 00		200000	AFMC/LSO	C/FFP	UNKNOWN	FEB 00	SEP 00	N	SEP 99	
RAMSTEIN AB, GERMANY										
IOE										
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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	
MCP TYFR96-3004/APS										
FY 01		300000	AFMC/LSO	C/FFP	UNKNOWN	MAY 01	SEP 01	N	NOV 00	
12. USAF-WIDE/AIT										
SHAW AFB, SC & EGLIN AFB										
SUPPLY ASSET TRACKING										
SYSTEM (SATS) CONVERSION										
TO ORACLE										
FY 98		350000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	FEB 98	JUL 98			
SHAW AFB & EGLIN AFB										
SATS RADIO FREQUENCY										
CARGO MOVEMENT										
OPERATING SYSTEM										
INTERFACE										
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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
FY 98		165000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURGH, VA	SEP 98	FEB 99			
SHAW AFB & EGLIN AFB										
SATS PHASE II										
FY 98		600000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURGH, VA	SEP 98	MAR 99			
HOLLOMAN AFB, NM										
BARE BASE INVENTORY										
PHASE II										
FY 98		341000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURGH, VA	MAY 99	SEP 99	N	FEB 99	
LACKLAND AFB, TX										
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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
CLOTHING SALES SYS										
FY98		20000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	JAN 99	MAR 99			
					EVERETT, WA					
EGLIN, FL										
EGRESS EQUIP TRACKING										
SYSTEM										
FY 98		48000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	SEP 98	FEB 99			
					EVERETT, WA					
USAFA COLORADO SPRINGS										
CO PHASE I										
AF ACADEMY SMART CARD										
FY 98		250000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	JUL 98	MAR 99			
					EVERETT, WA					
NELLIS AFB, NV										
TOOL CONTROL SYS										
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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	
FY 98		135000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / CDO TECHNOLOGIES	FEB 98	JUL 98			
					DAYTON, OH					
EGLIN AFB, FL										
MOBILITY INVENTORY										
CONTROL ACCOUNTABILITY										
SYSTEM										
FY 98		106000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	JUN 98	DEC 98			
					EVERETT, WASH					
EGLIN AFB & SHAW AFB										
SATS										
DEFENSE REUSE MGMT										
SYSTEM										
FY 99		600000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCOM WILLAMSBURGH, VA	JUN 99	SEP 99	N	APR 99	
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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	
NELLIS AFB, NV										
TOOL CONTROL SYS										
FY 99		400000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / CDO TECHNOLOGIES	APR 99	AUG 99	N	FEB 99	
					DAYTON, OH					
HILL AFB, UT										
EGRESS EQUIP TRACK SYS										
FY 99		400000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / CDO TECHNOLOGIES	JUL 99	SEP 99	N	MAY 99	
					DAYTON, OH					
USAFA COLORADO SPRINGS										
CO PHASE II										
AF ACADEMY SMART CARD										
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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	
FY 99		343000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4) EVERETT, WA	APR 99	AUG 99	N	FEB 99	
EGLIN AFB, FL										
MOBILITY INVENTORY										
CONTROL ACCOUNTABILITY										
SYS ENHANCEMENTS										
EXEC SUPPORT SYS										
FY 99		150000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4) EVERETT, WA	APR 99	JUL 99	N	FEB 99	
EGLIN AFB, FL										
SATS/ INTEGRATED										
MAINTENANCE DATA										
SYSTEM										
FY 00		600000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	FEB 00	SEP 00	N	JAN 00	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
EGLIN AFB, FL										
SATS AMMO										
FY 00		475000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	JAN 00	AUG 00	N	DEC 99	
NELLIS AFB, NV										
RED FLAG										
EXERCISE SUPPORT										
FY 00		425000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / CDO TECHNOLOGIES DAYTON, OH	FEB 00	AUG 00	N	JAN 00	
SCOTT AFB, IL										
VEHICLE TRACKING										
WORK ORDER GENERATION										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
FY 00		400000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / CDO TECHNOLOGIES	MAR 00	OCT 00	N	FEB 00	
					WILLIAMSBURG, VA					
LACKLAND AFB, TX										
CRYPTO INVENTORY										
CONTROL SYSTEM										
FY 00		292000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON	JAN 00	AUG 00	N	DEC 99	
					WILLIAMSBURG, VA					
KIRKLAND AFB, NM										
ARMORY TRACKING										
FY 01		650000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	JAN 01	AUG 01	N	DEC 00	
					EVERETT, WA					
HILL AFB, UT										
HAZARDOUS MATERIAL										
MGMT SYSTEM										
FY 01		594000	AFMC/LSO	OPT/FFP	INTERMEC CORP (4)	FEB 01	OCT 01	N	JAN 01	
					EVERETT, WA					
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
			HURLBURT FLD, FL, (AFSOC)							
FY 99		500000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	APR 99	DEC 99	N	FEB 99	
			PETERSON AFB, CO, (AFSPC)							
FY 99		500000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	MAY 99	DEC 99	N	MAR 99	
			ELMENDORF AFB, AK, (PACAF)							
FY 99		625000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	JUN 99	DEC 99	N	APR 99	
			HICKAM AFB, HI, (PACAF)							
FY 99		625000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	JUN 99	DEC 99	N	APR 99	
			KUNSAN AB, KOREA, (PACAF)							
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING 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	
FY 99		625000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG ,VA	JUL 99	DEC 99	N	MAY 99	
OSAN AB, KOREA, (PACAF)										
FY 99		625000	AFMC/LSO	MIPR/OPT/FFP	FEDSIM [3] / LOGICON-SYSCON WILLIAMSBURG, VA	JUL 99	DEC 99	N	MAY 99	
<p>REMARKS:</p> <p>(1) Storage Aid Systems (SAS) funding is sent to various Major Command Contracting Offices for execution. Dollars represent total project costs. Examples of contractors associated with SAS Projects are: Spacesaver Storage, Las Cruces, NM; Brooks, Glendons, CA; and Horsley Co., Ogden, UT. Award and Delivery dates represent the date of LAST award and delivery.</p> <p>(2) Kadena project consists of three phases: Mech of Inbound Air Freight for \$6M in FY99, Mech of Outbound Small Parts Handling for \$6M in FY00, and Prepack Dock for \$2.5M in FY00. FY99 contract for the Inbound Air Freight will include options for awarding the other two phases of the project.</p> <p>(3) FEDSIM - Federal System Integration and Management Center at Falls Church, VA.</p> <p>(4) Original contract signed in 1994. Options are renewed each year as task order contracts.</p> <p>(5) Award date changed from Dec 98 to Jul 99 due to delay in MCP</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE INDUSTRIAL SUPPORT EQ)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$3,995	\$4,124	\$8,533	\$9,241	\$9,382	\$12,174	\$12,442	\$12,716
<p>Description:</p> <p>1. This program provides a wide range of industrial equipment for base-level industrial shops used in support of aircraft, communications, welding shops, electronic components, and paint shops. This equipment is used in the repair of engines, hydraulic/pneudraulic systems, landing gear, airframe components and instruments. Also included in this program is state-of-the-art equipment required to upgrade and replace the antiquated metalworking equipment in Air Force base maintenance shops. As this type of equipment reaches its life expectancy, it must be replaced to prevent work stoppage in the repair and manufacture of critical weapon system components. Replacement of this type of equipment is a continual, proactive process necessary to prevent out-of-tolerance conditions that lead to excessive downtimes for the equipment and the components they repair.</p> <p>2. This line has historically been underfunded. In the past, dollars were reprogrammed to BARE BASE and Medical Dental requirements. Today, both totally fund their own requirements. Funding of Base Industrial Support Equipment requirements will go from 58 percent in FY99, to 78 percent in FY00, to 88 percent in FY01.</p> <p>3. FY00/01 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY00 and FY01 are identified on the following P-40a.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE INDUSTRIAL SUPPORT EQ)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
BENDING MACHINE	3441009384573	3	\$1,164		
FSC 3220 - WOODWORKING MACHINES			\$700		\$180
FSC 3405 - SAWS & FILING MACHINES			\$365		\$232
FSC 3408 - MACHINING CENTERS			\$631		
FSC 3415 - GRINDING MACHINES			\$1182		\$1233
FSC 3416 - LATHES			\$149		\$1188
FSC 3417 - MILLING MACHINES			\$1182		\$1733
FSC 3419 - MISC. MACHINE TOOLS			\$192		\$218
FSC 3424 - METAL HEAT TREATING EQUIPMENT			\$341		\$255
FSC 3426 - METAL FINISHING EQUIPMENT			\$32		\$43
FSC 3431 - ELECTRIC ARC WELDING EQUIPMENT			\$562		\$647
FSC 3432 - ELEC. RESISTANCE WELDING			\$8		\$93
FSC 3433 - GAS WELD,HEAT CUT/METAL					\$42
FSC 3438 - MISC. WELDING EQUIPMENT					\$186
FSC 3441 - BENDING/FORMING MACHINE			\$1182		\$733
FSC 3445 - PUNCHING & SHEARING MACHNE			\$62		\$1878
FSC 3448 - RIVETING MACHINES					\$119
FSC 3750 - GARDENING IMPLEMENT/TOOLS			\$7		
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE INDUSTRIAL SUPPORT EQ)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
FSC 4430 - INDUSTRIAL FURNACES			\$184		\$252
FSC 4440 - DRIERS/DEHYDRATORS			\$3		
FSC 4940 - MISC SPECIALIZED MAINT.					\$1
FSC 3411- BORING MACHINES			\$12		
FSC 3413 - DRILLING MACHINES			\$56		
FSC 3446 - FORGING MACHINES			\$26		\$79
FSC 3750 - MACHINE SHOP SETS			\$493		\$129
TOTALS:			\$8,533		\$9,241
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: FLOODLIGHTS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$6,196	\$10,708	\$13,461	\$10,718	\$6,906	\$6,976	\$1,631	\$0
<p>Description:</p> <p>1. Floodlights are one of the most valuable and versatile pieces of support equipment in the Air Force inventory. They are used in many facets of maintenance operations including performing night maintenance on aircraft, loading and unloading cargo, and providing essential emergency lighting. They are also required for perimeter defense, emergency disaster coverage, aircraft accident on-site investigations, auxilliary power for air conditioners and portable x-ray equipment, and for rapid runway repairs.</p> <p>2. The current NF-2 floodlights were procured as early as 1960 and some of the units are still in the inventory. All currently fielded NF-2 and unmodified NF-2D's have exceeded their useful service life which is approximately 12 years. Spare parts are no longer available through contractor sources for repair of the floodlight sets. In FY97, a new contract for the FL-1D floodlight was awarded to Unicor (Prison Industries), Big Springs, Texas. The FL-1D consisting of a tower for mounting two 1,000 watt floodlights, power distribution equipment, and a diesel engine driven generator set is permanently mounted on a 4-wheel trailer type chassis. FY98-01 continues funding for procurement of floodlights.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT							P-1 NOMENCLATURE: FLOODLIGHTS							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
FL-1D FLOODLIGHT				{6196}			{10708}			{13461}			{10718}	
FL-1D	A	400	12252	4,901	767	13961	10,708	948	14199	13461	741	14464	10,718	
DATA				1,256										
TECH ORDERS				39										
TOTALS:				6,196			10,708			13,461			10,718	
REMARKS: DATA INCLUDES TESTING, TEST REPORTS, AND INITIAL START UP COSTS INCURRED BY UNICOR.														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: FLOODLIGHTS						
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	
FL-1D FLOODLIGHT										
FY98	400	12252	AFMC/SA-ALC	MIPR/FPE	UNICOR, BIG SPRINGS, TX	OCT 97	DEC 98			
FY99	767	13961	AFMC/SA-ALC	MIPR/FPE	UNICOR, BIG SPRINGS, TX	NOV 98	JUN 99	Y		
FY00	948	14199	AFMC/SA-ALC	MIPR/FPE	UNICOR, BIG SPRINGS, TX	NOV 99	APR 00	Y		
FY01	741	14464	AFMC/SA-ALC	MIPR/FPE	UNICOR, BIG SPRINGS, TX	NOV 00	APR 01	Y		
<p>REMARKS: THE FEDERAL ACQUISITION REGULATION (FAR) DIRECTS THAT FEDERAL PRISON INDUSTRIES (UNICOR) BE GIVEN THE RIGHT OF FIRST REFUSAL FOR EQUIPMENT CONTRACTS FOR FEDERAL STOCK CLASS 6230. THE AF SUBMITTED A MIPR TO UNICOR IN JAN 1997 FOR INITIAL PRODUCTION OF THREE OPERATIONAL TEST & EVALUATION UNITS. IN AUG 1997, UNICOR AWARDED A CONTRACT TO A "MANUFACTURING PARTNER", T&J MFG, INC, OSHKOSH, WI, FOR PRODUCTION OF FLOODLIGHT PARTS. UNIT COSTS ARE CALCULATED EACH FISCAL YEAR BASED ON REVISED ECONOMIC ASSUMPTIONS AND MATERIAL COSTS.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (ELECTRICAL EQ)								
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005				
QUANTITY												
COST (in Thousands)	\$1,737	\$2,356	\$7,638	\$7,187	\$6,026	\$6,159	\$10,295	\$10,434				
<p>Description:</p> <p>1. This program includes electrical power generators, switches, transformers and controls, connectors and portable lighting equipment for power distribution for use throughout the Air Force. These items support communications systems, radar systems, aircraft maintenance shops, hospitals, maintenance shelters, civil engineering functions and test ranges, and are used for daily operations as well as contingencies, natural disasters and war reserve material. Lack of funding will not only affect the operational readiness capability of aircraft, communications and base support missions, but will also degrade implementation of DoD directives for fuel standardization and emissions control.</p> <p>2. FY00 and FY01 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested for procurement in FY00 and FY01 are identified on the following P-40a.</p> <p>3. The following item listed on the P-40a was funded in a discrete P-1 line in prior years:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: center; padding: 5px;">Item</td> <td style="text-align: center; padding: 5px;">Previously Funded in P-1 Line</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Power Plant 60KW/400HZ, AN/MJQ-1632</td> <td style="text-align: center; padding: 5px;">Generators, Mobile Electric, P-1 Line #89</td> </tr> </table>									Item	Previously Funded in P-1 Line	Power Plant 60KW/400HZ, AN/MJQ-1632	Generators, Mobile Electric, P-1 Line #89
Item	Previously Funded in P-1 Line											
Power Plant 60KW/400HZ, AN/MJQ-1632	Generators, Mobile Electric, P-1 Line #89											
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)					DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (ELECTRICAL EQ)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001		
		QTY.	COST	QTY.	COST	
POWER PLANT, 60KW/400HZ, AN/MJQ-1632	6115013640157	18	\$1,794	28	\$2,843	
GENERATOR, MEP 831A	6115012853012	150	\$1,318	67	\$600	
GENERATOR, MEP 805A	6115012747389	45	\$977	100	\$2,210	
POWER PLANT, AN/MJQ-37	6115012996035	14	\$527			
GENERATOR, MEP 803A	6115012755061	40	\$466	40	\$475	
GENERATOR, MEP 802A, 5KW	6115012747387	30	\$308	75	\$784	
GENERATOR, MEP 816A	6115012747395	7	\$196			
POWER DISTRIBUTION PANEL, 15KW	6110012363829YV	184	\$546			
POWER DISTRIBUTION PANEL, 60KW	6110012374637YV	160	\$569			
LIPS, 3KW	6115012561059	52	\$80	80	\$128	
POWER PLANT, AN/MJQ-40	6115012996033			1	\$68	
MINOR PROJECTS						
FSC 6115 - GENERATORS - PWR PLANTS			\$857		\$79	
TOTALS:			\$7,638		\$7,187	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE PROCURED EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$6,974	\$7,725	\$14,035	\$14,970	\$7,110	\$7,265	\$7,088	\$7,138
<p>Description:</p> <p>1. Bases and units throughout the Air Force require and are authorized equipment that must be acquired directly from General Services Administration (GSA), Defense Logistics Agency (DLA), one of the other services, or from commercial sources. This results from federal policy to relieve the services of wholesale management of non-military and commercial items to reduce cost. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing \$100,000 or more which is not centrally managed and procured. Equipment examples include roads and grounds maintenance equipment; vehicle maintenance shop equipment; vehicle corrosion control equipment; specialized tool kits and test equipment, civil engineering maintenance, electrical and carpenter shop equipment; specialized laboratory equipment; kitchen and dining facilities equipment; printing plant equipment; air conditioning equipment; heating equipment; microfilm equipment; and graphics equipment.</p> <p>2. The equipment described above is needed for day-to-day maintenance and operation of bases, weapons and support systems and for support of both active and air reserve forces. The program supports installations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; reorganizations; natural disasters; new operational methods to increase efficiency and safety; beddown of new weapon systems; and energy conservation initiatives.</p> <p>3. BPE resources programmed by Air Force major commands and/or field operating agencies are displayed on the following P-40a Budget Exhibit. Increased funding in FY00 and 01 is largely due to funds programmed by the Air National Guard and Air Force Reserves to procure ammunition training simulators.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$9,946	\$8,681	\$14,331	\$17,193	\$15,616	\$14,087	\$14,500	\$14,837
<p>Description:</p> <p>1. Medical/Dental War Reserve Material (WRM) Equipment supports Air Force medical readiness and contingency requirements. Medical WRM allows the Air Force to rapidly deploy medical capability to forward operating locations. Adequate deployable medical capability is required for force protection. During the Cold War, the Air Force had large hospitals throughout Europe ready to receive casualties during a conflict with Warsaw Pact countries. New doctrine requires the Air Force to maintain medical readiness assets in CONUS capable of being transported via cargo aircraft to any location in the world; and upon arrival, quickly set up, and be ready to treat casualties. In many cases, typical hospital equipment cannot be used because it is too fragile, too heavy, or incompatible with operating in a cold, humid or contaminated environment. The major function of medical WRM equipment is to provide preventive medicine capabilities; to keep Wounded in Action (WIA) personnel alive until definitive care can be provided; and return less critically 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: 40px;">a. Chemically Hardened Air Transportable Hospital (CHATH) Multi-Component Equipment Project: As the research about Persian Gulf illnesses continues, the evidence is clear that even a small exposure to chemical and biological agents can cause great bodily harm. Soldiers and airmen in the field usually have some short warning about an incoming missile attack to don their gas mask and other protective gear. WIA in a field air transportable hospital (ATH) may be unconscious, on a respirator, or otherwise unable to take protective measures. Medical personnel may also be involved in surgical procedures. The solution to caring for WIA is to protect the entire ATH by securing an airtight seal, hardened against chemical attacks. The CHATH is an Air Force field hospital consisting of an operating room, wards for 50 beds, a laboratory, and</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT		
Description (cont.): equipment necessary for resuscitative surgery, postoperative stabilization, support services, general medical care, dental care, and psychiatric care. The CHATH shelter is formed of sections of the Tent, Extendable, Modular, Personnel (TEMPER) in which a chemical/biological protective liner is installed and an over-pressure environment is created. Prior year funding procured four air locks and 30 liner sets. These air locks allow the movement of medicine, food, water, and wastes in/out of the CHATH without compromising hospital cleanliness or compromising chemical/biological protection. No FY00/01 funding is requested. b. Chemically Hardened Air Management Plants (CHAMPS): CHAMPS are a significant component of the CHATH. The contaminated air going in to the CHATH has to be specially filtered to remove contaminants, and the air must be heated or cooled. CHAMPS protect against chemical and biological agents, and enhance environmental cleanliness. CHAMPS must also be able to operate off generators or other power sources. CHAMPS provides the Air Force with the capability to deploy medical personnel to a chemical/biological threat area while minimizing the impact on medical operations. No FY00/01 funding is requested. c. Air Transportable Hospital (ATH) Water Distribution System: The water distribution system will allow the ATH to receive potable water and eliminate waste water through the protective liner without compromising protection. Currently, potable water has to be carried in, and personnel (staff and patients) have to leave the CHATH to eliminate waste. This process hampers care whenever the ATH is used, even when a chemical/biological agent is not present. FY98 and FY99 funds will ensure a water system is present that will protect against infection from waste products by removing waste products from the clinical environment. FY98 funding procured the initial ATH Water Distribution System and FY99 will procure 10 units. One entire system includes the following major components: clean bladder, piping, pumps, and various valves, all packed and containerized. FY00 funding buys out the Air Force requirement for this item. No FY01 funding is requested. d. Civil Reserve Air Fleet (CRAF) Shipsets: During a major contingency, the Air Force does not have enough aircraft in its inventory to dedicate cargo aircraft to the singular mission of transporting WIA from forward locations to CONUS. The solution is to lease commercial airliners (a contract is available), remove the seats, and replace them with litter stations. The litter stations are also called shipsets. The shipsets				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT		
Description (cont.): are kits that will reconfigure commercial Boeing 767 aircraft into flying ambulances. Commercial airports have jet-ways from which passengers enter and leave the aircraft. At deployed locations, ramps are required to load patients on the B-767s. The current system for loading litter patients is time intensive and requires aircraft maintenance equipment. The Air Force requirement was procured with prior year funding. No FY00/01 funding is requested. e. Theater Medical Information Program (TMIP): TMIP is an integrated program that consolidates all DoD medical information systems. Wartime medical communication requirements are radically different from peacetime requirements. Commanders require information on WIA--type, numbers, location; reports detailing casualty location and medical status from the front line to rear echelons; logistical data - resource consumption information, supply inventories, data on what is in the logistical pipeline, when it will be available, and what materiel can be diverted to satisfy a higher priority; and medical personnel - matching medical/surgical capability and availability/locations with WIA requirements. Current medical wartime communications infrastructure consists of readily available land lines and radio technology circa 1959. TMIP provides inter/intra unit medical communications systems for ground and Air Force theater medical units, utilizing secure and nonsecure telephone, wireless and satellite media for transport of information. The result will be a deployable, organic medical information infrastructure capable of transmitting voice, electronic mail, data and images, which 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, and wireless, lightweight intra-crew communication devices for medical crews. FY00/01 funding will include all information management hardware required for the TMIP system. Associated FY99 Research and Development funds to accomplish proof-of-concept testing on existing commercially available systems to ensure compliance with Air Force standards will be accomplished by the Human System Center (HSC), Brooks AFB, Texas. Reference PE 64703 in the Air Force Descriptive Summaries. f. Modernization and Replacement: This program provides for replacement and modernization of centrally managed and procured equipment items. These equipment items and components are procured, as funds permits, using a mission based priority system. Funding restraints often dictate procuring less than the inventory objective of each item -- necessitating procurement of several single item requirements to ensure overall				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT		
Description (cont.): maximum deployable readiness. To maximize the number of 100% ready deployable units, some of each of the following requirements are being procured in FY00-01. <ul style="list-style-type: none">(1) Light Weight Temper Tents(2) Cable Assemblies(3) In Flight Kits(4) Generators, Electric Panels(5) Pulse Oxymeters(6) Defibrillators(7) X-ray Film Processors g. Spinal Cord Injury Transport System (SCITS): Safe transportation of spinal cord injury patients between medical treatment facilities is necessary to prevent further trauma to the patient. The objective of this SCITS procurement is to ensure that patients with spinal cord injuries, burns, or multiple trauma who must be airlifted significant distances receive the same quality of care in transit that would be available from medical treatment facilities. SCITS will incorporate kinetic therapy including manual side-to-side motion for treating and preventing complications of immobility, skeletal traction, and stability for the spine. There are several operational performance parameters that are unique to the SCITS design and its aeromedical evacuation mission. SCITS must be sufficiently light and portable so a minimum number of individuals can pick up both it, and the patient, for transport into the medical evacuation aircraft, ambulance, or ambus. Furthermore, this device must fit properly into the standard litter stanchion used onboard those evacuation vehicles. Since medical evacuation aircraft impose additional requirements above and beyond those of an ambulance or ambus, the SCITS must be made of lightweight materials and must be extremely durable to withstand the rigors of flight. Medical evacuation aircraft on which SCITS will be used include the C-9, C-17, C-27, C-130, C-141, and the Civil Reserve Air Fleet (CRAF). FY00/01 funding is requested				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT		
Description (cont.): these units.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)	DATE: FEBRUARY 1999
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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT	P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT
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PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. CHATH MULTI-COMP. EQ PROJ	A		\$1,587		\$967				
B. CHAMPS	A	37	\$3,551	11	\$1,083				
C. ATH WATER DISTRIBUTION SYS	A	1	\$170	10	\$1,000	12	\$1,200		
D. CRAF SHIPSETS	A	42	\$2,100						
E. TMIP	A						\$8,341		\$8,677
F. MODERNIZATION & REPLACE.	A		\$2,538		\$5,631		\$3,332		\$6,061
G. SCITS	A					67	\$1,458	113	\$2,455
Totals:			\$9,946		\$8,681		\$14,331		\$17,193

Remarks:

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
A. CHATH MULTI-COMP										
EQ PROJ										
FY98	N/A	VAR	AFMC/HSC	OPT/FFP	MULTIPLE (1)	APR 98	AUG 98			
FY99	N/A	VAR	AFMC/HSC	OPT/FFP	MULTIPLE (1)	FEB 99	JUN 99	Y		
B. CHAMPS										
FY98	37	95,972	AFMC/HSC	OPT/FFP	ENGINEERING AIR SYSTEMS, INC. (2)	APR 98	AUG 98			
FY99	11	98,454	AFMC/HSC	OPT/FFP	ENGINEERING AIR SYSTEMS, INC. (2)	MAR 99	APR 00	Y		
					ST. LOUIS, MO.					
C. ATH WATER DIST SYS										
FY98	1	170,000	AFMLO	MIPR/FFP	ARMY/TACOM (3)	JUN 98	FEB 99			
FY99	10	100,000	AFMLO	MIPR/FFP	ARMY/TACOM (3)	AUG 99	OCT 99	Y		
FY00	12	100,000	AFMLO	MIPR/FFP	ARMY/TACOM (3)	DEC 99	SEP 00	Y		
D. CRAF SHIPSETS										
FY98	42	50,000	AFMC/HSC	C/FFP	UPRIGHT, INC, SELMA, CA	AUG 98	JUL 99			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
E. TMIP										
FY00	N/A	VAR	AFMC/HSC	C/FFP	UNKNOWN	DEC 99	JUL 00	Y		
FY01	N/A	VAR	AFMC/HSC	OPT/FFP	UNKNOWN	DEC 00	MAR 01	Y		
F. MODERN. & REPLACE.										
FY98	N/A	VAR	AFMLO	C/FFP	MULTIPLE (4)	DEC 97	FEB 98			
FY99	N/A	VAR	AFMLO	C/FFP	MULTIPLE (4)	DEC 98	FEB 99			
FY00	N/A	VAR	AFMLO	C/FFP	MULTIPLE (4)	DEC 99	JAN 00	Y		
FY01	N/A	VAR	AFMLO	C/FFP	MULTIPLE (4)	DEC 00	JAN 01	Y		
G. SCITS										
FY00	67	21,761	AFMC/HSC	C/FFP	UNKNOWN	DEC 99	SEP 00	Y		
FY01	113	21,726	AFMC/HSC	C/FFP	UNKNOWN	DEC 00	SEP 01	Y		
REMARKS: 1. HSC/BROOKS AFB, TX, WILL ACT AS THE INTEGRATOR FOR THE CHATH SYSTEM. MULTIPLE CONTRACTORS ARE INVOLVED; INTELLITEC, INC, DELAND, FL, IS THE CONTRACTOR FOR THE LINERS, THE COSTLIEST COMPONENT OF THE CHATH SYSTEM. 2. PRODUCTION OPTION TO R&D CONTRACT WITH ENGINEERING AIR SYSTEMS, INC., AWARDED IN AUG 1995. 3. AFMLO (AIR FORCE MEDICAL LOGISTICS OFFICE) IS MIPRING FUNDS TO ARMY/TACOM WHO WILL ACT AS BOTH THE CONTRACTING										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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
<p>OFFICE AND INTEGRATION FACILITY FOR THE AIR FORCE.</p> <p>4. AFMLO USES VARIOUS CONTRACTS AT MULTIPLE ALC'S TO EXECUTE MODERNIZATION/REPLACEMENT FUNDING. THE AWARD DATE AND DATE OF FIRST DELIVERY REPRESENT THE FIRST AWARD OF FUNDING AND THE INITIAL DELIVERY OF EQUIPMENT.</p>									
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$969	\$971	\$955	\$950	\$944	\$939	\$959	\$981
<p>Description:</p> <p>1. The Environmental Projects Program procures equipment necessary to support environmental compliance and pollution prevention laws, executive orders, regulations, and DoD directives. This program provides equipment related to reducing hazardous material use, hazardous waste generation and release of pollutants into the environment. Included in this program is equipment that supports solid and hazardous waste recycling, the elimination of Air Force use of ozone depleting chemicals (ODC), hazardous waste recovery and treatment, and air pollution reduction. Equipment purchases are required for day-to-day operations and support projects that further the Air Force objective of improving management practices in all areas regarding the environment.</p> <p>2. Following are descriptions of FY98-01 individual projects.</p> <p>FY98:</p> <p style="margin-left: 20px;">a. Hydrolysis of Propellants, Explosives, Pyrotechnics (PEP), Edwards AFB, CA: Disposal of waste propellants is currently accomplished by open burning/open detonation. Equipment procured with FY98 funding treats the waste PEP generated by research and development of rocket propellant with a hydrolysis process.</p> <p style="margin-left: 20px;">b. Replacement of Cadmium for Landing Gear Internal Surfaces (Phase I), Hill AFB, UT: Currently cadmium plating is widely used for corrosion protection on alloy steel aircraft parts. Both cadmium metal and its plating solution are highly toxic. FY98 funding replaced cadmium with Ion Vapor Deposition (IVD) aluminum which out-performs cadmium in preventing corrosion in acidic conditions and is an</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS		
Description (cont.): environmentally compliant material process. c. Mobile Bomb Renovation Plant, AF Research Labs, Wright-Patterson AFB, OH: This equipment is required to incorporate wire arc spray and other suitable environmentally compliant coating technologies for corrosion protection of munitions in containerized modules that can be shipped to Air Force storage sites worldwide. FY98 funding purchased various pieces of equipment for the modules. FY99: d. Decreased Waste Generation from Plating Shop, Robins AFB, GA: Currently the plating shop uses various methods to depaint, clean, remove corrosion, and prepare off-aircraft parts prior to electroplating operations. FY99 funding procures equipment which will provide an aqueous blast process, thereby reducing HazWaste disposal. e. Replacement of Cadmium for Landing Gear (Internal Surfaces) (Phase II), Hill AFB, UT: Currently cadmium plating is widely used for corrosion protection on ally steel aircraft parts. Both cadmium metal and its plating solution are highly toxic. IVD aluminum out-performs cadmium in preventing corrosion in acidic conditions and is an environmentally compliant material process. FY99 funding provides for Phase II of cadmium replacement to upgrade the laboratory sputter aluminum coater to a production model status for demonstration/validation. Upgrades include increased chamber size, incorporation of inverted cylindrical magnetron capability, and additional "plug and coat" magnetron. f. Low Particulate Emission Sweepers, Edwards AFB, CA: Current runway sweepers do not meet local air quality regulations. FY99 funds procure new runway sweepers which are capable of containing particulates using a highly efficient filtering system. FY00: g. Laser Cured Coating, Robins AFB, GA: FY00 funds will procure equipment required to cure polymer coated aircraft components. This equipment provides a monolithic protective film with no resulting toxic air emissions or hazardous waste generation during application.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS		
Description (cont.): <p>h. Metal Process and Coolant System, AF Research Labs, Wright-Patterson AFB, OH: FY00 will provide funding for equipment which collects and recycles cooling fluids and provides re-circulation of filtered air in machining processes. The system reduces current air pollutant emission levels that otherwise conflict with future National Emissions Standards for Hazardous Air Pollutants (NESHAP) and other Clean Air Act requirements.</p> <p>i. Paint Purification Equipment, Hill AFB, UT: FY00 funding is requested for equipment which purifies paint stripping used in aircraft maintenance processes, reduces purchase and disposal of toxic release inventory reported chemicals, and helps meet Clean Water Act requirements.</p> <p>FY01:</p> <p>j. Non-Chemical X-Ray System, Hill AFB, UT: Currently, a chemical x-ray system is used to examine missiles and other specific components for wear and effectiveness. FY01 funding will provide for a new non-chemical x-ray system which will reduce chemicals used, wastewater discharged, and the large amount of x-ray film that must be stored.</p> <p>k. Supercritical Carbon Dioxide (CO2) Fluid Cleaning Equipment, AF Research Labs, Wright-Patterson AFB, OH: FY01 funding is requested for equipment which will provide an excellent solvent (carbon dioxide at extremely high temperatures and pressures) for treating many organic contaminants. The process will be used to eliminate organic cleaning solvents which generate hazardous waste.</p> <p>l. Energetic Paint Stripper, AF Research Labs, Wright-Patterson AFB, OH: This equipment removes paint without the use of chemical strippers. FY01 funding will procure portable equipment needed to remove the portion of paint that cannot be removed by larger automated energetic systems due to the configuration of the aircraft. Use of this equipment will reduce hazardous waste generation and help meet Clean Water Act requirements.</p>				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. HYDROLYSIS OF PROPELLANTS, EXPLOSIVES, PYROTECHNICS	A		\$429						
B. REPLACEMENT OF CADMIUM FOR LANDING GEAR PH I	A		\$235						
C. MOBILE BOMB RENOVATION PLNT	A		\$305						
D. DECREASED WASTE GENERATION FROM PLATING SHOP	A				\$300				
E. REPLACEMENT OF CADMIUM FOR LANDING GEAR PH II	A				\$400				
F. LOW PARTICULATE EMISSION SWEEPERS	A				\$271				
G. LASER CURED COATING	A						\$450		
H. METAL PROCESS & COOLANT SYS	A						\$300		
I. PAINT PURIFICATION EQUIP	A						\$205		
J. NON-CHEMICAL X-RAY SYSTEM	A								\$275
K. SUPERCRITICAL CO2 FLUID CLEANING EQUIP	A								\$450
L. ENERGETIC PAINT STRIPPER	A								\$225
Totals:			\$969		\$971		\$955		\$950

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS									
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001						
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST					
Remarks:														
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR BASE OPERABILITY				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$4,069	\$5,350	\$4,417	\$1,856				
<p>Description:</p> <p>1. Air Base Operability (ABO) is an ongoing program to provide integrated capabilities needed to establish and maintain air base readiness during contingencies. ABO has the capability to rapidly deploy, defend and sustain airfield operations and command and control activities prerequisite to establishing air superiority. These systems provide beddown for aircraft, support equipment, and forces both at main operating bases and contingency operating locations, which may have only a runway and a water source. ABO offers crucial facilities, utilities, runway repair, fire suppression, explosive ordnance disposal, and reconnaissance capabilities to support aircraft deployment, launch, recovery and regeneration. Lighter weight, rapidly deployable equipment has become essential in supporting numerous and simultaneous global contingencies for force protection, relief efforts, and special operations.</p> <p>2. The following procurements are programmed in FY00-01:</p> <p style="margin-left: 20px;">a. Medium Shelter Systems. This program replaces an existing generation of aging Harvest Falcon/Harvest Eagle (HF/HE) shelters and Environmental Control Units (ECUs) with a new generation portable shelter system that is less airlift intensive while providing improved operational performance. The system includes a shelter, insulation, flooring, utilities interfaces, and ECUs. These shelters serve as maintenance back shops, equipment storage areas and operations support facilities. FY98 funds shelters for preliminary commercial item testing and evaluation; FY99 funds shelters for operational testing, evaluation and training. Follow-on HF/HE funding for this item is programmed in P-1 line #102, Mobility Equipment. No FY00/01 funding requested</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: AIR BASE OPERABILITY		
Description (cont.): b. Deployable Power Generation and Distribution System (DPGDS). The DPGDS provides a new family of bare base electric power generation and distribution equipment to improve capability and reduce deployment requirements for HF/HE kits. DPGDS supports bare base prime (high voltage) and tactical (low voltage) power production and delivery including secondary distribution centers, secondary power distribution panels, transformers, controls, cabling, and ancillary support equipment. FY98/99 funding procures hardware for qualification and operational testing. Follow-on HF/HE funding for this item is programmed in P-1 line #102, Mobility Equipment. c. All purpose Remote Transport System (ARTS). ARTS is a low cost survivable platform capable of remote operations at distances up to three miles. ARTS was designed as a delivery platform for further development of detector, sensor and Explosive Ordnance Disposal (EOD) tools. Air Force Wright Laboratory developed this multi-purpose tool under the direction/funding of the OSD Joint Robotics Program. OSD through Wright Laboratory is working with a vendor to take this tool directly from the laboratory to the field. Reference Program Element 64617 of the Air Force R&D Descriptive Summaries. The Other Procurement ARTS program will be executed in two phases. FY98 Phase I funding procured commercially available systems for proof-of-concept testing. FY99-01 Phase II funding will result in a competitive procurement to acquire the remaining production units and satisfy the Air Force inventory objective. d. EOD Support Equipment. This equipment dramatically increases response time to neutralize explosive hazards, saving lives and reducing damage at an extremely low cost relative to conducting operations without these tools. The Navy Explosive Ordnance Technology Division (NAVEODTECHDIV) is the OSD Executive Agent for joint service EOD R&D. Production funding is provided by individual services, (Reference PE 64617F). The Air Force requires the following equipment for the safety of deployed personnel and expedient removal of unexploded ordnance hazards. (1) Explosively Driven Water Charge: A fabricated system that may be pre-positioned on a trailer, skid, or other suitable platform and can be stored in a "ready" configuration for immediate use. The assembled device may be stored for ready immediate employment for up to two years. The purpose of the charge is to produce a low density spatial water jet capable of penetrating and disrupting large objects. Large objects				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: AIR BASE OPERABILITY		
Description (cont.): encompass trucks, trailers, sea-land containers and large pallet sized loads. This disruption has proven effective at neutralizing large improvised explosive devices or weapons of mass destruction (WMD). (2) Citadel: Enhances the EOD operation against IEDs. (3) 90MM Water Cannon: ARTS attachment which neutralize IEDs in mid-size sedans and vans. (4) Advanced Radiographic System (ARS): A small portable x-ray machine which displays information real time on a standard lap top computer; the ARS converts x-ray imagery into an electronic picture. (5) Remote Excavation/Removal System: ARTS attachment which helps ensure safe excavation of buried munitions. (6) Range Residue Removal System: ARTS attachment which provides capability to remove fragmentation and residue to safe ranges. (7) Remote Ordnance Neutralization System (RONS): Tele-operated platform and robotic manipulator which allows control by an operator at the operator control station (OCS) up to a distance of 650 meters. Provides capabilities for reconnaissance, access, render safe, Pick Up and Carry Away (PUCA), and disposal during extremely hazardous explosive ordnance missions.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: AIR BASE OPERABILITY								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. MEDIUM SHELTER SYS				{200}			{487}						
1. HARDWARE	A	2	70,000	140	5	70,000	350						
2. TRAINING (TYPE I)				20									
3. DATA				30									
4. INIT CONTRACT SPT							60						
5. SPARES KITS							6						
6. PRE-OP SPT				10			10						
7. ECO'S							61						
B. DPGDS													
1. HARDWARE	A	1	2,339,000	2339	1	2,851,000	2,851						
C. ARTS				{1100}			{1802}			{2817}			{819}
1 ARTS PHASE I				{1100}									
(A) HARDWARE	A	5	184,000	920									
(B) WARRANTY				140									
(C) TNG (TYPE I)				15									
(D) TESTING				15									
(E) DATA				10									
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999							
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT							P-1 NOMENCLATURE: AIR BASE OPERABILITY							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
2. ARTS PHASE II							{1802}				{2817}			{819}
(A) HARDWARE	A				7	205,000	1,435	11	212,000	2332	3	219,000	657	
(B) EXTENDED MAINT AGREEMT							210			363			108	
(C) TNG (TYPE I)							20			15			10	
(D) DATA							25							
(E) TESTING							40			20			20	
(G) ECP							72			87			24	
D. EOD SUPPORT EQUIP				{430}			{210}			{1600}			{1037}	
1. EXPLOSIVELY DRIVEN WATER CHARGE														
(A) HARDWARE	A	5	30,000	150	5	30,000	150							
2. CITADEL (A) HARDWARE	A	223	1,009	225										
3. 90MM WATER CANNON														

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: AIR BASE OPERABILITY								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
(A) HARDWARE	A	10	5,500	55									
4. ARS													
(A) HARDWARE	A				4	15,000	60	16	15,500	248	3	16,000	48
5. REMOTE EXCAVATION/ REMOVAL SYSTEM										{60}			{20}
(A) HARDWARE	A							3	20,000	60	1	20,000	20
6. RANGE RESIDUE REMOVAL SYSTEM													
(A) HARDWARE	A										1	60,000	60
7. RONS										{1292}			{909}
(A) HARDWARE	A							10	100,000	1,000	7	105,714	740
(B) WARRANTY										180			140
(C) DATA										25			
(D) TNG (TYPE I)										25			
(E) TESTING										20			
(F) ECO'S										42			29
		P-1 ITEM NO: 95			PAGE NO: 98			Page 3 of 4					

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PHOTOGRAPHIC EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$5,854	\$5,576	\$5,932	\$6,037	\$5,771	\$5,854	\$5,983	\$6,114
<p>Description:</p> <p>1. The Photographic Equipment program procures still photographic, motion photography, graphic and multimedia imaging equipment and systems. These equipment items support Air Force reconnaissance and intelligence programs, Air Force test ranges, combat camera still photographic documentation teams and Base Visual Information Service Centers by replacing exhausted, antiquated equipment that has either reached or exceeded maximum useful life or is unable to meet speed and quality of resolution that provides the critical visual information necessary for rapid and accurate command decisions. Visual Information Service Centers support commanders at all levels including the National Command Authority and the Chairman, Joint Chiefs of Staff; education and training; and public and internal information still, graphic and multimedia imaging requirements. Equipment includes conventional and digital still cameras and processors, motion cameras, developing and finishing equipment and video/data projection systems.</p> <p style="margin-left: 40px;">a. Photo Projection Equipment (FSC 6730): FY98-01 funding continues procurement of primarily electronic imaging and data projection systems. The program is designed to incorporate the use of electronic imaging systems where appropriate. Electronic presentation eliminates the necessity of transferring images to film or acetate based materials. The transition to electronic presentation is a result of technological growth and a need to reduce film/chemical based systems in the interest of protecting the environment.</p> <p style="margin-left: 40px;">b. Photo Equipment and Accessories (FSC 6760): FY98-01 continues to procure specialized film-based photographic systems that cannot be replaced with electronic photography. These newer systems comply with or exceed federal and state environmental regulations and are required because of their ability to provide full resolution capability or rapid high speed imaging that electronic imaging cannot yet meet.</p>								
			P-1 ITEM NO: 100			PAGE NO: 100	Page 1 of 2	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: PHOTOGRAPHIC EQUIPMENT		
Description (cont.): c. Electronic Imaging Center Conversions: The Electronic Imaging Center concept was initiated to integrate and install electronic and digital still and photographic imaging systems in Visual Information Service Centers at all Air Force bases. The purpose was to replace film and chemical based technology with electronic and digital cameras, multimedia systems, digital photographic processing, digital graphic systems, image data banks, image network hubs and presentation systems. The program was also developed to standardize systems to insure inter-operability and to reduce training costs from installation to installation. Digital technology enhances exportability of imagery and is providing commanders with near real-time images from anywhere in the world. All Air Force bases have an initial electronic image system installed. FY98-01 funding continues replacement of the remaining film/chemical systems and as well as replacement of original electronic systems which are rapidly reaching end of useful life. 2. The following P-40a depicts funding associated with categories of photographic equipment.				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$16,129	\$12,273	\$15,093	\$8,340	\$8,351	\$8,415	\$0	\$0
<p>Description:</p> <p>1. This P-1 line funds the Air Force Productivity Enhancing Capital Investment (PECI) projects in the Productivity Investment Fund (PIF) and the Fast Payback Capital(FASCAP) investment programs. Investment funds are available to all Air Force organizations to encourage productivity enhancements for more efficient operations and focus on labor cost savings and reduction in unit cost of operations. These programs conserve critical resources, enhance unit capability, and improve combat effectiveness. The users (Major Commands (MAJCOMs)) provide the offsets from projected savings to sustain future investments for these programs. Thus, these programs are funded by the MAJCOMs. FY 98-01 funding continues support for these programs. Elimination of this funding would reduce the capability to implement productivity and quality improvements in the work place.</p> <p style="margin-left: 40px;">a. To qualify for the PIF program, projects must cost over \$200,000 and amortize in less than four years. Projects are approved by the Air Force based on shortest payback and highest rate of return on investment. To date, projects have yielded life cycle savings of over \$17 for every \$1 invested.</p> <p style="margin-left: 40px;">b. To qualify for the FASCAP program, projects must cost less than \$200,000 and amortize in less than two years. Projects are approved by MAJCOMs based on the shortest amortization period and best return on investment. To date, projects have yielded life cycle savings of over \$7 for every \$1 invested.</p> <p>2. Individual PIF projects are listed on the P-40a along with contracting information on the P-5a. Individual FASCAP projects are not provided</p>								
			P-1 ITEM NO: 101			PAGE NO: 103	Page 1 of 2	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS		
Description (cont.): because of the large number of projects and contracting actions.				
	P-1 ITEM NO: 101		PAGE NO: 104	Page 2 of 2

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. PIF									
A. AUTOMATED DIGITAL WEATHER SWITCH (AFWA)	A		\$380						
B. MOBILE FIRE TRAINER-KUNSAN (PACAF)	A		\$610						
C. MOBILE FIRE TRAINER-KADENA (PACAF)	A		\$500						
D. KITCHEN/CLIPPER TRAILERS- HICKAM (PACAF)	A		\$432						
E. AIR FORCE PUBLISHING SYSTEM (AFCIC)	A		\$5,580		\$1,960				
F. PERSONNEL ACCESS CONTROL SYSTEM - ROBINS (AFMC)	A				\$470				
G. GLOBAL INTERNET NEWS & INFORMATION SYSTEM (SECY AF/PUBLIC AFFAIRS)	A						\$4,000		
2. FASCAP	A		\$8,627		\$9,843		\$11,093		\$8,340

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
Totals:			\$16,129		\$12,273		\$15,093		\$8,340	
Remarks:										
			P-1 ITEM NO: 101				PAGE NO: 106			

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY 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	
D. KITCHEN/CLIPPER										
TRAILERS-HICKAM (PACAF)										
FY98	VAR	N/A	HQ PACAF	SS/FP	CARLIN MANUFACTURING INC.	FEB 98	MAY 98			
					FRESNO, CA					
E. AIR FORCE PUBLISHING										
SYSTEM (AFCIC)										
FY98	VAR	N/A	HQ AFCIC	MIPR/OPT/FPAF	GSA - LOCKHEED MARTIN	AUG 98	JAN 99			
					NEW YORK, NY					
FY99	VAR	N/A	HQ AFCIC	MIPR/OPT/FPAF	GSA - LOCKHEED MARTIN	DEC 98	JUL 99			
					NEW YORK, NY					
F. PERSONNEL ACCESS										
CONTROL SYSTEM-ROBINS										
(AFMC)										
FY99	VAR	N/A	AFMC/WR-ALC	SS/FP	HONEYWELL, ATLANTA, GA	NOV 98	JAN 99			
		P-1 ITEM NO: 101		PAGE NO: 108		Page 2 of 3				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY 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	
G. GLOBAL INTERNET NEWS										
& INFORMATION SYSTEM										
(SECY AF/PUBLIC AFFAIRS)										
FY00	VAR	N/A	11WING	MIPR/OPT/FPAF	DEFENSE TECH INFO CENTER	DEC 99	JUN 00	N	JUN 99	
					GENERAL TELEPHONE & ELECTRIC CHANTILLY VA					
REMARKS: 1. OPTION TO FY97 CONTRACT WITH UNISYS CORPORATION.										
		P-1 ITEM NO: 101				PAGE NO: 109		Page 3 of 3		

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MOBILITY EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$25,267	\$35,883	\$46,865	\$50,513	\$27,742	\$27,173	\$20,461	\$19,687
<p>Description:</p> <p>1. This program supports Air Force (AF) Bare Base Mobility Equipment better known as Harvest Falcon (HF) and Harvest Eagle (HE). Designed and sized to support two nearly simultaneous Major Theater Wars (MTW) the equipment provides theater war fighters billeting, industrial, and air field capability to support a total of 68,200 combat troops and 822 aircraft at 15 austere locations, building complete bases from the ground up. Of the two systems, HF is the newest and has the greatest capability (housekeeping plus air base infrastructures). It is an outgrowth of the FY90-94 Defense Planning Guidance (DPG) that initially tasked the Air Force to support United States Central Command (USCENTCOM) Rapid Deployment forces and save on critical airlift resources through theater prepositioning. Subsequent DPG's have continued this requirement. The outstanding reputation of the AF Bare Base program, established during the Gulf War, has continued in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These include Operation Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, Desert Focus, and Desert Fox. Harvest Falcon remains a top priority with the Commander-In-Chief/Central Command.</p> <p>2. The unparalleled success of the AF Bare Base program and unending demand for the equipment to support MOOTW has taken its toll. As a result the majority of HF and HE sets require comprehensive repair or replacement. Much of the equipment has been used for over three years, well beyond design parameters. Equipment reinvestment funding is a crucial issue. In recognition of increased use of Bare Base equipment and funding shortages in the Bare Base program, OSD, in their FY01/00 Program Decision Memorandum dated 18 August 1998, added \$11.8 million in FY00 and \$14.6 million in FY01 to procure replacement equipment for HF sets.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: MOBILITY EQUIPMENT		
Description (cont.): 3. Associated Research and Development funds for Bare Base Systems Cold Weather Package and the Deployable Waste Management System are through the Aeronautical Systems Center (ASC), Eglin AFB, FL. Reference PE 28031F in the Air Force Descriptive Summaries. Research and Development funds for Bare Base Systems Medium Shelters and the Deployable Power Generation and Distribution Systems (DPGDS) for Falcon, Eagle, and the Secondary Distribution Center (SDC) are also through ASC as part of the Agile Combat Support development effort. Reference PE 64617F in the Air Force Descriptive Summaries. 4. A listing of individual projects is provided on the following P-5.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)								DATE: FEBRUARY 1999					
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT								P-1 NOMENCLATURE: MOBILITY EQUIPMENT					
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. REFUELING SYSTEMS				{2137}			{3824}			{5180}			{3496}
1. R-14 MOBILE HYDRANT	A							22	92274	2030	14	101668	1423
2. 10K FUEL BLADDER	A	54	8122	439	82	8122	666	71	8122	577	57	8122	463
3. 50K FUEL BLADDER	A	152	10126	1539	280	10126	2835	200	10126	2025	159	10126	1610
4. R-22 MOBILE HYDRANT	A	6	26500	159	12	26951	323	20	27401	548			
B. REFRIGERATION EQUIP.				{7265}			{8654}			{4578}			{10060}
1. REFER PANEL, 10KW	A				16	5924	95	60	6225	374	19	6344	121
2. REFER UNIT, 300 CU FT	A				54	25000	1350	84	25000	2100	107	25000	2675
3. FIELD DEPLOYABLE EENVIRONMENTAL CONTROL UNIT (FDECU)	A	690	10529	7265	667	10808	7209	189	11134	2104	652	11141	7264
C. WATER SYSTEMS				{5081}			{6173}			{4650}			{3243}
1. LATRINES	A	16	22941	367	51	22162	1130						
LATRINES	A	51	21781	1111									
2. SHOWER UNITS	A	3	15914	48	53	16423	870						
3. SHAVE UNITS	A				67	13547	908						
4. WATER LOOP SYSTEM	A	3	290709	872	2	290709	581	5	300593	1503	4	306117	1224
5. INITIAL WATER DISTRIBUTION SYSTEM (IWDS)	A	3	141447	424	2	142664	285						

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT							P-1 NOMENCLATURE: MOBILITY EQUIPMENT						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
5A. FIRST ARTICLE		1	290447	290									
5B. DATA				2									
6. SOURCE RUN	A							7	130702	915			
7. 3K WATER BLADDER(ONION)	A	59	2693	159	113	2739	310	104	2739	285	99	2739	271
8. 20K WATER BLADDER	A	136	4998	680	238	4998	1190	16	4998	80	16	4998	80
9. SELF-HELP LAUNDRY	A	43	26227	1128									
10. 9-1 KITCHEN WATER SYS.	A				28	18500	518	11	18500	204	10	18500	185
10A. DATA	A						2						
10B. ECP CHANGES	A						125						
11. 550 KITCHEN WATER SYS.	A				24	10578	254						
12. EAGLE WATER DIST. SYS.	A							3	187450	562	1	196000	196
13. PUMP 170 GPM	A							8	774	6			
14. PUMP MAIN POTABLE	A							82	13350	1095			
15. DEPLOYABLE WASTE MGMT SYSTEM	B										1	1287000	1287
D. RUNWAY SUBSYSTEMS							{2464}			{4920}			
1. REMOTE AREA LIGHT SYST (RALS)	A				76	32426	2464	104	32968	3429			
2. MOBILE AIRCRAFTARRESTING SYSTEM (MAAS)	A							7	213000	1491			

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 1999						
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT							P-1 NOMENCLATURE: MOBILITY EQUIPMENT						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
E. ELECTRICAL SUBSYS.				{2162}			{4914}			{11721}			{16100}
1. SECONDARY DIST CTR (SDC)	A	102	21200	2162	84	21560	1811						
2. 9-1 KITCHEN ELECT. SYS.	A				49	38489	1886						
2A. DATA	A						2						
2B. ECP CHANGES	A						145						
3. 550 KIT ELEC SYST	A				24	28771	691						
4. "B" PANEL ELECTRICAL	A				75	900	68						
5. "A" PANEL ELECTRICAL	A				55	900	50						
6. PRIMARY DIST PANEL (PDP)	A				174	1500	261						
7. DEPLOYABLE POWER GENERATION AND DISTRIBUTION SYST (DPDGS)										{11721}			{16100}
7A. DPDGS FALCON	B							3	3907000	11721	2	4000000	8000
7B. DPGDS EAGLE	B										3	2000000	6000
7C. DPGDS SDC	B										100	21000	2100
F. SHELTERS				{7170}			{9854}			{15366}			{16416}
1. SMALL SHELTER/ECU	A	83	27000	2241	203	26000	5278	290	26010	7543	286	25003	7151
2. MEDIUM SHELTER SYSTEM	B							58	114000	6562	45	114000	5130
3. 4K SQ FT SHELTER (DOME)	A	15	118167	1773	25	120788	3020				20	121464	2429
4K SQ FT SHELTER (DOME)	A	2	120788	242									

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: MOBILITY EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. DOME SHELTER CONTAINER	A	14	7240	101	75	7240	543				58	7257	421
5. INITIAL DEPLOYABLE KITCHEN (IDK)	A	14	168851	2364	6	168851	1013						
5A. ECP CHANGES				449									
6. EXPANDABLE SHELTER/ CONTAINER "A" COMMON	A							20	63073	1261	20	64234	1285
G. MISCELLANEOUS				{1452}						{450}			{1198}
1. COLD WEATHER PACKAGE	B										1	1000000	1000
2. ADDITIVE FUEL INJECTOR	A							13	13884	180	14	14144	198
3. FFU-15E PUMP	A							25	10819	270			
4. SHIP/STORE CONTAINERS	A	188	7240	1361									
5. LIGHT SET (TEMPER TENT)	A	230	397	91									
TOTALS:				25,267			35,883			46,865			50,513
REMARKS:													
		P-1 ITEM NO: 102						PAGE NO: 115			Page 4 of 4		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
A. REFUELING SYSTEMS										
1. R-14 MOBILE HYDRANT										
FY00	22	92274	AFMC/SA-ALC	C/FP	UNKNOWN	JUL 00	MAY 01	Y		
FY01	14	101668	AFMC/SA-ALC	OPT/FP	UNKNOWN	NOV 00	SEP 01	Y		
2. 10K FUEL BLADDER										
FY98[1]	54	8122	AFMC/SA-ALC	OPT/FFP	ARMY/TACOM	MAY 98	AUG 98			
					BELL AVON, PICAYUNE, MS					
FY99[1]	82	8122	AFMC/SA-ALC	OPT/FFP	ARMY/TACOM	FEB 99	JUL 99	Y		
					BELL AVON, PICAYUNE, MS					
FY00[1]	71	8122	AFMC/SA-ALC	OPT/FFP	ARMY/TACOM	FEB 00	JUL 00	Y		
					BELL AVON, PICAYUNE, MS					
FY01[1]	57	8122	AFMC/SA-ALC	OPT/FFP	ARMY/TACOM	FEB 01	JUL 01	Y		
					BELL AVON, PICAYUNE, MS					
3. 50K FUEL BLADDER										
FY98[2]	152	10126	AFMC/SA-ALC	OPT/FFP	RELIANCE AERO, EAST CAMDEM, AR	JAN 98	MAY 99			
FY99[2]	280	10126	AFMC/SA-ALC	OPT/FFP	RELIANCE AERO, EAST CAMDEM, AR	NOV 98	AUG 99			
		P-1 ITEM NO: 102		PAGE NO: 116		Page 1 of 14				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
FY00[2]	200	10126	AFMC/SA-ALC	OPT/FFP	RELIANCE AERO, EAST CAMDEM, AR	NOV 99	MAR 00	Y		
FY01[2]	159	10126	AFMC/SA-ALC	OPT/FFP	RELIANCE AERO, EAST CAMDEM, AR	NOV 00	MAR 01	Y		
4. R-22 MOBILE HYDRANT										
FY98	6	26500	AFMC/WR-ALC	C/FP	REDDY BUFFALO PUMP INC., BAXLEY, GA	JUN 98	DEC 98			
FY99	12	26951	AFMC/WR-ALC	C/FP	UNKNOWN	FEB 99	AUG 99	Y		
FY00	20	27401	AFMC/WR-ALC	OPT/FP	UNKNOWN	DEC 99	JUN 00	Y		
B. REFRIGERATION EQUIP										
1. REFER PANEL, 10KW										
FY99	16	5924	AFMC/SA-ALC	MIPR/FP	ARMY/TACOM	APR 99	SEP 99			
					UNKNOWN					
FY00	60	6225	AFMC/SA-ALC	MIPR/FFP	ARMY/TACOM	NOV 99	APR 00	Y		
					UNKNOWN					
FY01	19	6344	AFMC/SA-ALC	MIPR/FFP	ARMY/TACOM	NOV 00	APR 01	Y		
					UNKNOWN					
		P-1 ITEM NO: 102		PAGE NO: 117		Page 2 of 14				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
2. REFER UNIT, 300 CU FT										
FY99	54	25000	AFMC/WR-ALC	MIPR/FFP	ARMY/SSCOM	FEB 99	MAR 00	Y		
					UNKNOWN					
FY00	84	25000	AFMC/WR-ALC	OPT/FFP	ARMY/SSCOM	NOV 99	AUG 00	Y		
					UNKNOWN					
FY01	107	25000	AFMC/WR-ALC	OPT/FFP	ARMY/SSCOM	NOV 00	APR 01	Y		
					UNKNOWN					
3. FEDCU										
FY98[3]	690	10529	AFMC/SA-ALC	OPT/FFP	KECO INC., FLORENCE, KY	JUN 98	MAY 99			
FY99[3]	667	10808	AFMC/SA-ALC	OPT/FFP	KECO INC., FLORENCE, KY	NOV 98	DEC 99			
FY00[3]	189	11134	AFMC/SA-ALC	OPT/FFP	KECO INC., FLORENCE, KY	NOV 99	AUG 00	Y		
FY01[3]	652	11141	AFMC/SA-ALC	OPT/FFP	KECO INC., FLORENCE, KY	NOV 00	JUN 01	Y		
C. WATER SYSTEMS										
1. LATRINES										
FY98[4]	16	22941	AFMC/WR-ALC	OPT/FP	ENGINEERED AIR SYS., ST.LOUIS, MO	MAY 98	NOV 98			
FY98[4]	51	21781	AFMC/WR-ALC	OPT/FP	ENGINEERED AIR SYS., ST.LOUIS, MO	SEP 98	DEC 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
FY99[4]	51	22162	AFMC/WR-ALC	OPT/FP	ENGINEERED AIR SYS., ST.LOUIS, MO	JUN 99	DEC 99	Y		
2. SHOWER UNITS										
FY98 [5]	3	15914	AFMC/WR-ALC	OPT/FP	KECO INDUSTRIES INC., FLORENCE, KY	SEP 98	JUN 99			
FY99	53	16423	AFMC/WR-ALC	C/FP	UNKNOWN	MAR 99	SEP 99	Y		
3. SHAVE UNITS										
FY99	67	13547	AFMC/WR-ALC	C/FP	UNKNOWN	MAR 99	SEP 99	Y		
4. WATER LOOP SYSTEM										
FY98[6]	3	290709	AFMC/WR-ALC	OPT/FP	KECO INDUSTRIES INC., FLORENCE KY	FEB 98	OCT 98			
FY99[6]	2	290709	AFMC/WR-ALC	OPT/FP	KECO INDUSTRIES INC., FLORENCE KY	NOV 98	MAY 99			
FY00	5	300593	AFMC/WR-ALC	C/FP	UNKNOWN	JAN 00	MAR 01	Y		
FY01	4	306117	AFMC/WR-ALC	OPT/FP	UNKNOWN	JAN 01	MAY 01	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
5. IWDS										
FY98[14]	1	290447	AFMC/WR-ALC	C/FP	JGB ENTERPRISES INC., LIVERPOOL, NY	JUN 98	NOV 99			
FY98[14]	3	141447	AFMC/WR-ALC	C/FP	JGB ENTERPRISES INC., LIVERPOOL, NY	JUN 98	NOV 99			
FY99	2	142664	AFMC/WR-ALC	OPT/FP	JGB ENTERPRISES INC., LIVERPOOL, NY	NOV 98	MAY 99			
6. SOURCE RUN										
FY00	7	130702	AFMC/WR-ALC	C/FP	UNKNOWN	JAN 00	OCT 00	Y		
7. 3K WATER BLADDER (ONION)										
FY98	59	2693	AFMC/WR-ALC	C/FP	JGB ENTERPRISES INC., LIVERPOOL, NY	JUN 98	DEC 98			
FY99	113	2739	AFMC/SA-ALC	MIPR/FP	ARMY/TACOM	JUL 99	OCT 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
					UNKNOWN					
FY00	104	2739	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	DEC 99	NOV 00	Y		
					UNKNOWN					
FY01	99	2739	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	DEC 00	JAN 01	Y		
					UNKNOWN					
8. 20K WATER BLADDER										
FY98[7]	136	4998	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	MAY 98	OCT 98			
					AMERICAN FUEL CELL, MAGNOLIA, AR					
FY99[7]	238	4998	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	NOV 98	APR 99			
					AMERICAN FUEL CELL, MAGNOLIA, AR					
FY00[7]	16	4998	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	NOV 99	APR 00	Y		
					AMERICAN FUEL CELL, MAGNOLIA, AR					
FY01[7]	16	4998	AFMC/SA-ALC	OPT/FP	ARMY/TACOM	NOV 00	APR 01	Y		
					AMERICAN FUEL CELL, MAGNOLIA, AR					
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
9. SELF HELP LAUNDRY										
FY98[8]	43	26227	AFMC/WR-ALC	OPT/FP	PORTER MFG, LUBBOCK TX	APR 98	SEP 98			
10. 9-1 KITCHEN WATER SYS.										
FY99	28	18500	AFMC/WR-ALC	C/FFP	UNKNOWN	FEB 99	OCT 99	Y		
FY00	11	18500	AFMC/WR-ALC	OPT/FP	UNKNOWN	NOV 99	MAR 00	Y		
FY01	10	18500	AFMC/WR-ALC	OPT/FP	UNKNOWN	NOV 00	MAR 01	Y		
11. 550 KITCHEN WATER SYS.										
FY99	24	10578	AFMC/WR-ALC	C/FP	UNKNOWN	FEB 99	OCT 99	Y		
12. EAGLE WATER DIST. SYS.										
FY00	3	187450	AFMC/WR-ALC	C/FP	UNKNOWN	APR 00	APR 01	Y		
FY01	1	196000	AFMC/WR-ALC	OPT/FP	UNKNOWN	NOV 00	APR 01	Y		
13. PUMP 170 GPM										
FY00	8	774	AFMC/WR-ALC	C/FP	UNKNOWN	DEC 99	JUL 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
14. PUMP MAIN POTABLE										
FY00	82	13350	AFMC/WR-ALC	C/FP	UNKNOWN	JAN 00	AUG 00	Y		
15. DEPLOY WASTE MGMT SYSTEM										
FY01	1	128700	AFMC/ASC	C/FP	UNKNOWN	NOV 00	MAY 01	Y		
D. RUNWAY SUBSYSTEMS										
1. RALS										
FY99	76	32426	AFMC/SA-ALC	SS/FP	UNICOR, LOMPOC, CA	NOV 98	FEB 99			
FY00	104	32968	AFMC/SA-ALC	OPT/FP	UNICOR, LOMPOC, CA	NOV 99	FEB 00	Y		
2. MAAS										
FY00[15]	7	213000	AFMC/SA-ALC	OPT/FP	ENGINEERED SYSTEMS CO, ASTON, PA	NOV 99	MAR 00			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
E. ELECTRICAL SUBSYS.										
1. SDC										
FY98[9]	102	21200	AFMC/SM-ALC	OPT/FP	ESSEX, SCHAUNBURG, IL	FEB 98	MAY 01			
FY99	84	21560	AFMC/SM-ALC	C/FP	UNKNOWN	FEB 99	MAY 00	Y		
2. 9-1 KITCHEN ELECT. SYS.										
FY99	49	38489	AFMC/WR-ALC	C/FP	UNKNOWN	APR 99	MAY 00	Y		
3. 550 KIT ELECT SYS										
FY 99	24	28771	AFMC/WR-ALC	C/FP	UNKNOWN	APR 99	MAY 00	Y		
4. "B" PANEL ELECTRICAL										
FY99	75	900	AFMC/SM-ALC	C/FP	UNKNOWN	FEB 99	MAY 00	Y		
5. "A" PANEL ELECTRICAL										
FY99	55	900	AFMC/SM-ALC	C/FP	UNKNOWN	FEB 99	MAY 00	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
6. PDP										
FY99	174	1500	AFMC/SM-ALC	C/FP	UNKNOWN	FEB 99	MAY 00	Y		
7. DPGDS										
7A. DPGDS FALCON										
FY00[10]	3	3907000	AFMC/ASC	OPT/FP	RADIAN INC., ALEXANDRIA, VA	NOV 99	MAY 00	Y		
FY01[10]	2	4000000	AFMC/ASC	OPT/FP	RADIAN INC., ALEXANDRIA, VA	NOV 00	MAY 01	Y		
7B. DPGDS EAGLE										
FY01[10]	3	2000000	AFMC/ASC	OPT/FP	RADIAN INC., ALEXANDRIA, VA	NOV 00	MAY 01	Y		
7C. DPGDS SDC										
FY01[10]	100	21000	AFMC/ASC	OPT/FP	RADIAN INC., ALEXANDRIA, VA	NOV 00	MAY 01	Y		
F. SHELTERS										
1. SMALL SHELTER/ECU										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
FY98	83	27000	AFMC/ASC	C/FP	ALASKA INDUSTRIES, MONTROSE, CO	NOV 98	JAN 99			
FY99	203	26000	AFMC/ASC	OPT/FP	ALASKA INDUSTRIES, MONTROSE, CO	NOV 98	MAR 99			
FY00	290	26010	AFMC/ASC	OPT/FP	ALASKA INDUSTRIES, MONTROSE, CO	NOV 99	DEC 99	Y		
FY01	286	25003	AFMC/ASC	OPT/FP	ALASKA INDUSTRIES, MONTROSE, CO	NOV 00	DEC 00	Y		
2. MEDIUM SHELTER SYS.										
FY00[16]	58	114000	AFMC/ASC	OPT/FP	CALIFORNIA INDUSTRIES FACILITIES, KIRKLAND, WA	MAR 00	AUG 00	Y		
FY01[16]	45	114000	AFMC/ASC	OPT/FP	CALIFORNIA INDUSTRIES FACILITIES, KIRKLAND, WA	NOV 00	FEB 01	Y		
3. 4K SQ FT SHELTER(DOME)										
FY98[13]	15	118167	AFMC/WR-ALC	OPT/FP	UNIVERSAL FABRIC, QUAKERTOWN, PA	FEB 98	MAY 98			
FY98[13]	2	120788	AFMC/WR-ALC	OPT/FP	UNIVERSAL FABRIC, QUAKERTOWN, PA	SEP 98	DEC 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
FY99[13]	25	120788	AFMC/WR-ALC	OPT/FP	UNIVERSAL FABRIC, QUAKERTOWN, PA	NOV 98	MAY 99			
FY01[13]	20	121464	AFMC/WR-ALC	OPT/FP	UNIVERSAL FABRIC, QUAKERTOWN, PA	NOV 00	MAY 01	Y		
4. DOME SHELTER CONTAINER										
FY98[11]	14	7240	AFMC/WR-ALC	REQN/FP	AAR CADILLAC, CADILLAC, MI	SEP 98	MAR 99			
FY99[11]	75	7240	AFMC/WR-ALC	REQN/FP	AAR CADILLAC, CADILLAC, MI	NOV 98	MAY 99			
FY01[11]	58	7257	AFMC/WR-ALC	REQN/FP	AAR CADILLAC, CADILLAC, MI	NOV 00	MAY 01	Y		
5. INITIAL DEPLOYABLE										
KITCHEN (IDK)										
FY98[12]	14	168851	AFMC/WR-ALC	OPT/FP	SFA INC., FREDERICK, MD	AUG 98	MAY 99			
FY99[12]	6	168851	AFMC/WR-ALC	OPT/FP	SFA INC., FREDERICK, MD	NOV 98	OCT 99			
6. ES/C "A" COMMON										
FY00	20	63073	AFMC/WR-ALC	C/FP	UNKNOWN	MAY 00	MAY 01	N	JUN 99	
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
FY01	20	64234	AFMC/WR-ALC	OPT/FP	UNKNOWN	NOV 00	SEP 01	N	JUN 99	
G. MISCELLANEOUS										
1. COLD WEATHER PACKAGE										
FY01	1	1000000	AFMC/ASC	C/FP	UNKNOWN	MAY 01	AUG 01	N	JUN 00	
2. ADDITIVE FUEL INJECTOR										
FY00	13	13884	AFMC/SA-ALC	C/FP	UNKNOWN	JUL 00	MAR 01	Y		
FY01	14	14144	AFMC/SA-ALC	OPT/FP	UNKNOWN	DEC 00	AUG 01	Y		
3. FFU-15E PUMP										
FY00	25	10819	AFMC/SA-ALC	C/FP	UNKNOWN	MAR 00	MAR 01	Y		
4. SHIP/ STORE CONTAINERS										
FY98	188	7240	AFMC/WR-ALC	REQN/FP	AAR CADILLAC, CADILLAC, MI	FEB 98	MAR 98			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & 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	
5. LIGHT SET (TEMPER TENT)										
FY98	230	397	AFMC/WR-ALC	C/FP	UNICOR, PETERSBURG, VA	FEB 98	DEC 98			
REMARKS: [1] FY98-01 procurements will be options to Army/TACOM contract, DAAK01-94-D0039. [2] FY98-01 procurements will be options to contract, F41608-98-D0054. [3] FY98-01 procurements will be options to contract, F41608-97-D0622. [4] FY98-99 procurements are options to contract, F09603-97-C0212. [5] FY98 procurement is an option to contract, F09603-96-C0549. [6] FY98-99 procurements are options to contract, F09603-97-C0362. [7] FY98-01 procurements will be options to Army/TACOM contract, DAAK01-94-D0034. [8] FY98 procurement is an option to contract, F09603-97-C0383. [9] FY98 procurement is an option to contract, F04606-96-D-0219. [10] FY00-01 procurements will be options to ASC R&D contract. [11] FY98-01 procurements will be funded requisitions to DLA/S9G who has an ongoing contract with AAR Cadillac, Cadillac, MI . [12] FY98-99 procurements are options to contract, F09603-97-C-0385. [13] FY98-01 procurements will be options to contract, F09603-98-C-0297. [14] IWDS FY98 procurement for 1 EA. is a first article; FY98 for 3 EA are production items. [15] MAAS FY00 procurement will be on requirements contract F41608-97-D-0802 with Engineered Systems Co., Aston, PA. [16]FY00-01 procurements will be options to ASC R&D contract F08929-98-C-0030 with California Industries Facilities, Kirkland, WA.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR CONDITIONERS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$9,627	\$10,668	\$6,711	\$6,217	\$7,017	\$3,569	\$3,648	\$3,728
<p>Description:</p> <p>1. This program provides funding to procure air conditioning systems for Air Force ground-support missions. These assets provide environmental control--both cooling and heating. Old air conditioning systems contain hydrochlorofluorcarbon (HCFC-22) which is a Class II ozone layer depleting substance due to phase out by 2005. New procurement items contain a non-ozone depleting refrigerant required for the Government to comply with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act requiring the elimination of HCFC-22 refrigerant.</p> <p>2. Prior year funding began procurement for a new Air Force air conditioning system. The A/E32C-39 Field Deployable Environmental Control Unit (FDECU) is an electric-motor driven, vapor cycle, skid-mounted air conditioner with a cooling capacity of 54,000 British Thermal Units per hour using ozone friendly R-134a refrigerant. It provides cooling and heating for US Special Operations Command combat communications units, F-15 and F-16 aircraft avionics maintenance shops, Air Force Flight Test Center test sites, Aerial Port/Combat Control organizations, Civil Engineering Red Horse Squadrons, and Security Police dog kennels. The FDECU is also HQ Air Combat Command's number one priority item for bare base shelter support. Additionally, a nuclear, biological, chemically-hardened version is used to support War Reserve Material (WRM) requirements for field transportable hospitals. Failure to acquire the FDECU will degrade peacetime readiness through premature failure of avionic/electronic equipment and reduce the capability of field deployable shelters. The FDECU will replace assets that have exceeded their service life, are no longer economical to repair or maintain, and which also contain HCFC-22. All new units comply with the Montreal Protocol Treaty and Clean Air Act. FY98-01 funding continues procurement of the FDECU.</p>								
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR CONDITIONERS						
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 CONDITIONER										
A/E32C-39										
FY98	499	10,789	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	AUG 98	JAN 99	,		
FY99	699	10,789	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	JAN 99	AUG 99			
FY00	622	10,789	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	NOV 99	APR 00	Y		
FY01	559	11,121	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE ,KY	NOV 00	APR 01	Y		
AIR CONDITIONER										
A/E32C-39 CHEM HARD										
FY98	321	13,217	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	AUG 98	JAN 99			
FY99	235	13,307	AFMC/SA-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	JAN 99	AUG 99			
<p>REMARKS: A COMPETITIVE, FIRM FIXED PRICE CONTRACT WAS AWARDED IN JUN 1997 TO KECO INDUSTRIES, FLORENCE, KY, AND THE ABOVE UNIT COSTS ARE IN ACCORDANCE WITH THE NEGOTIATED CONTRACT. THE FDECU CONTRACT IS A THREE YEAR REQUIREMENTS CONTRACT WITH TWO ONE-YEAR OPTIONS.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999										
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)												
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005								
QUANTITY																
COST (in Thousands)	\$13,683	\$16,850	\$22,500	\$25,269	\$25,547	\$27,406	\$26,411	\$28,608								
<p>Description:</p> <p>1. This program provides a wide variety of base support items with worldwide application. Examples are servicing platforms, aircraft arresting systems, compressors which have various applications, refrigeration units, heaters, pallets, nets, and military working dogs which are used for base and anti-terrorist protection. This equipment is the backbone of all base missions. Lack of funding for these equipment items limits maintenance capabilities, testing functions, communications capabilities, flight operations and the ability of Air Force units to meet deployment requirements.</p> <p>2. FY00 and FY01 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested for procurement in FY00 and FY01 are identified on the following P-40a.</p> <p>3. The following items listed on the P-40a were funded in discrete P-1 lines in prior years:</p> <table style="width: 100%; margin-top: 20px;"> <tr> <td style="width: 50%; text-align: center;">Item</td> <td style="width: 50%; text-align: center;">Previously Funded in P-1 Line</td> </tr> <tr> <td>Pallet, Air Cargo</td> <td>Pallet, Air Cargo, P-1 Line #96</td> </tr> <tr> <td>Net Assembly 108X88" (Top/Side)</td> <td>Net Assembly, 108"X88", P-1 Line #97</td> </tr> <tr> <td>Containers</td> <td>Deployment/Employment Containers, P-1 Line #103</td> </tr> </table>									Item	Previously Funded in P-1 Line	Pallet, Air Cargo	Pallet, Air Cargo, P-1 Line #96	Net Assembly 108X88" (Top/Side)	Net Assembly, 108"X88", P-1 Line #97	Containers	Deployment/Employment Containers, P-1 Line #103
Item	Previously Funded in P-1 Line															
Pallet, Air Cargo	Pallet, Air Cargo, P-1 Line #96															
Net Assembly 108X88" (Top/Side)	Net Assembly, 108"X88", P-1 Line #97															
Containers	Deployment/Employment Containers, P-1 Line #103															
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
MOBILE AIRCRAFT ARRESTING SYSTEM (MAAS)	1710012232235	3	\$1491	0	\$0
BAK-12 AIRCRAFT ARRESTING SYSTEM (AAS)	1710010985024	10	\$1965	9	\$1,802
BAK-14 AIRCRAFT ARRESTING SYS (AAS)150FT	1710014191561	1	\$395	1	\$395
SERVICING PLATFORM, 60FT	4940010836052	15	\$1,055		
SERVICING PLATFORM, 72FT	4940010890129	6	\$615	7	\$754
TF-1 FLOODLIGHT	6230010963508	3	\$41	150	\$2,064
TACTICAL MAINTENANCE SHELTER S530	5411010722517EJ	2	\$484	2	\$501
PALLET, AIR CARGO	1670008204896CT	2100	\$1,949	2000	\$1,888
NET ASSEMBLY 108"X88" (1 TOP/2 SIDE NSNS)		4350	\$460	3400	\$361
MILITARY WORKING DOGS (MULTIPLE NSNS)		304	\$1,247	288	\$1,182
FSC 1710 - AIRCRAFT ARRESTING SYS			\$253		\$295
FSC 3695 - MISC SPECIAL INDUSTRY MAT			\$66		\$299
FSC 3910 - CONVEYORS			\$417		\$480
FSC 4110 - REFRIGERATION EQUIP			\$873		\$818
FSC 4130 - REFRIG & A/C PLANTS			\$508		\$500
FSC 4310 - COMPRESSORS/VAC PUMPS			\$802		\$884
FSC 4320 - POWER & HAND PUMPS			\$580		\$464
FSC 4520 - SPACE HEATING/WATER HEATER			\$190		\$426

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
FSC 4610 - WATER PURIFICATION EQUIP			\$884		\$782
FSC 4630 - SEWAGE TREATMENT EQUIP			\$443		\$335
FSC 4910 - MOTOR VEHICLE EQUIP			\$1453		\$1714
FSC 4930 - LUBRICATION & FUEL EQUIP			\$540		\$623
FSC 4933 - WEAPONS MAINTENANCE SPECIAL EQUIP			\$33		\$182
FSC 4940 - MISC MAINTENANCE REPAIR EQUIP			\$2,065		\$3,075
FSC 5430 - STORAGE TANKS			\$733		\$782
FSC 5450 - MISC PREFAB STRUCTURES			\$187		\$410
FSC 6645 - TIME-MEASURING EQUIP			\$315		\$580
FSC 6630 - FIBER OPTIC DEVICES			\$425		\$392
FSC 6650 - OPTICAL INSTRUMENTS			\$257		\$875
FSC 6665 - HAZARD DETECTING EQUIP			\$445		\$322
FSC 6670 - SCALES & BALANCES			\$383		\$715
FSC 6675 - DRAFTING, SURVEYING EQUIP			\$138		\$238
FSC 6685 - PRESSURE & TEMP EQUIP			\$310		\$693
FSC 7360 - FOOD PREP/SERV MODULES EQUIP			\$466		\$130
FSC 8145 - DEPLOY/EMPLOY CONTAINERS			\$32		\$8
FSC 5411 - RIGID WALL SHELTERS					\$300
TOTALS:			\$22,500		\$25,269
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$1,928	\$2,030	\$2,976	\$3,004	\$2,831	\$2,830	\$2,890	\$2,955
<p>Description:</p> <p>1. The Technical Surveillance Countermeasures Equipment Program is a continuous program for the acquisition of Technical Surveillance Countermeasures (TSCM), Technical Investigative Equipment (TIE), and Investigative Support Equipment in support of the Air Force Office of Special Investigations (AFOSI). AFOSI-trained technical agent teams located on Air Force installations worldwide conduct specialized technical surveys to detect clandestine intelligence gathering devices in sensitive Department of Defense (DOD) facilities. These devices may be targeted against facilities for purposes of counterintelligence or competitive intelligence collections. These same agents also conduct numerous technical support operations annually in support of criminal, fraud, and counterintelligence investigations.</p> <p>2. Some equipment items used to support these missions utilize antiquated technology and urgently need to be replaced. TSCM equipment must continually be updated to keep abreast of the technological advances incorporated in the design of current intelligence gathering devices. In addition, the use of technologically advanced equipment saves man-years of labor in extremely complex criminal and fraud investigations. As AFOSI's manpower pool decreases in size to meet DOD force structure levels, AFOSI's dependence on this advanced equipment will increase. Some equipment has also reached a phase in its life cycle when maintenance and repair costs have become excessive, and in some cases parts for those repairs are no longer available. The Air Force TSCM program is in danger of becoming ineffective with the continued use of old equipment. Sensitive Air Force facilities will become highly vulnerable to technical penetration without new/upgraded equipment.</p> <p>3. This program also includes Investigative Support Equipment that supports the AFOSI specialized investigative services (USAF Polygraph Program, USAF Computer Crime Investigations, and AFOSI specialized evidence collection and analysis activities). Specially trained agents</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT		
Description (cont.): support all types of investigations with state-of-the-art surveillance equipment uniquely designed to monitor illicit activity and provide protection to undercover agents and informants. AFOSI polygraph examiners conduct over 6,000 polygraph examinations annually in support of criminal/fraud/counterintelligence investigations and counterespionage operations. Failure to maintain AFOSI's polygraph equipment will result in the loss of credibility of USAF polygraph exams and result in non-certification of polygraph examiners. Advances in computer technology and the amount of sensitive data maintained in USAF computer systems necessitates the procurement of state-of-the-art equipment to aid in computer intrusion investigations and the analysis of computer media evidence.				
4. The following categories of investigative equipment are being procured in FY98-01.				
a. TSCM Survey Systems. These systems consist of TSCM equipment/components necessary to detect, exploit, and neutralize clandestine technical surveillance systems employed against sensitive Air Force and DOD facilities. Equipment must be upgraded to counter the threat presented by new and advanced technical surveillance devices. The capabilities of the equipment being procured are constantly reviewed to ensure that the most comprehensive surveys are conducted to disclose the presence of clandestine monitoring devices. These systems have the capability to search for covert transmissions from facilities both from the interior and exterior while not alerting a potential adversary of the TSCM team's presence. These systems include equipment to examine telephone systems to determine their security. Additionally, equipment is needed to conduct non-destructive examinations of walls, furniture, etc. for concealed devices.				
b. Specialized Law Enforcement Surveillance Equipment. This specialized equipment is uniquely designed for and utilized during lawfully authorized monitoring of activities and conversations. This visual monitoring often occurs during the hours of darkness, and sophisticated light enhancement equipment must be used. Audio monitoring during meetings between suspected criminals and undercover agents must be accomplished without the possibility of the agent being identified; therefore, updated equipment that is smaller and less susceptible to detection and interception must be procured to ensure the safety of the agents. Video and audio monitoring is often done remotely and specialized				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT		
Description (cont.): equipment to clandestinely transmit the images and audio is used. Advances in telephone systems require continuing improvements and upgrades to AFOSI's telephone monitoring equipment to allow lawfully authorized intercepts. Additionally, the capability to track the movements of suspected individuals and contraband, without revealing law enforcement's presence and utilizing the latest advances in navigation and position systems, must be procured as existing technology in this area is rapidly becoming obsolete. Without maintaining pace with advancements in these areas, AFOSI's ability to detect and solve crimes with lawfully collected evidence from surveillance will be greatly diminished. Lastly, the capability to analyze and enhance audio and video recordings from both law enforcement surveillance and suspected individuals' audio/video equipment requires continuous upgrading to keep pace with advancing technology. c. Computer Crime/Intrusion Investigation Systems. This system of equipment specifically supports the growing investigative case load resulting from increasing use of computers used in crime, and the explosion of incidences of attempted intrusions into USAF and other DOD computer systems. This system will require continuing updates and enhancements to maintain pace with the criminal element's use of computers.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
A. TSCM SURVEY SYSTEMS										
1. PORTABLE TSCM RECEIVERS	A	6	\$960	6	\$960	11	\$1760	8	\$1280	
B. SPECIALIZED LAW ENFORCEMENT SURVEILLANCE EQUIPMENT										
1. DIGITAL AUDIO RECORDERS	A	1	\$20	2	\$40	2	\$40	2	\$40	
2. PAGER INTERCEPTION EQUIP	A	1	\$3	1	\$3					
3. GPS VEHICLE TRACKING	A	4	\$60	3	\$40					
4. DISGUISED ANTENNAS	A			300	\$63					
5. TELEPHONE ANALYZERS	A					3	\$140	7	\$327	
6. LAN ANALYZERS	A					5	\$53	17	\$182	
7. SPECIAL PURPOSE/TECH EQUIPMENT	A					3	\$220	3	\$220	
8. CALLER IDENTIFICATION	A					12	\$74			
9. MILLIMETER WAVE/GROUND PENETRATING RADAR	A					6	\$187	6	\$187	
10. PORTABLE MINI-LASER	A					9	\$120			
11. CCTV	A	26	\$100							
C. COMPUTER CRIME/INTRUSION										

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: INDUSTRIAL PREPAREDNESS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$873	\$1,055	\$1,151	\$1,159	\$1,171	\$1,179	\$1,204	\$1,231
<p>Description:</p> <p>Program funding in Other Procurement, Air Force (OPAF) combines with several other appropriations to form the Air Force Industrial Resources Program. The goal of the Industrial Resources Program is to ensure the defense industry has world-class capability for producing and sustaining reliable, affordable systems to operational users in peacetime and national emergencies. The Industrial Preparedness OPAF activities include Industrial Planning. Industrial Planning efforts assess the critical sectors and industries within the communications and electronics industrial base and provide information on industrial capability issues for consideration during key budget allocation, weapon acquisition, and logistical support decision processes. FY00-01 projects address affordability issues, diminishing manufacturing source/parts obsolescence risks, or manufacturing support to both acquisition and sustainment programs.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MODIFICATIONS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$170	\$170	\$179	\$177	\$208	\$200	\$211	\$203
<p>Description:</p> <p>1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies or add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems or equipment. This budget line encompasses both new and on-going modification efforts for base maintenance and support equipment.</p> <p>2. The dollars budgeted in FY00-01 are for "Miscellaneous Low Cost Modifications" to satisfy historically unforeseen modification requirements.</p>								
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APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: FIRST DESTINATION TRANSPORTATION				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$10,674	\$15,666	\$13,304	\$13,896	\$15,138	\$15,610	\$16,121	\$17,276
<p>Description:</p> <p>First Destination Transportation (FDT) is the movement of property from free-on-board (F.O.B.) point of acquisition to the point at which the material is first received for use, storage, or distribution in the military supply system. When it is to the advantage of the government, transportation costs are included in the contractual price of the investment item (F.O.B. destination) and financed as part of their unit cost. This P-1 line program provides for CONUS inland movement of material newly procured by Air Force major commands (MAJCOMs) from contract plants to depot facilities, CONUS Air Force bases, or aerial/water ports for onward movement. FY 98-01 funding provides for shipment of items procured F.O.B. origin from all Air Force procurement appropriations (Aircraft, Missile, Ammunition and Other Procurement). The requirement is based on material buy programs in the procurement appropriations and is computed using a factor relationship of FDT costs to the value of procurement programs.</p>								
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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 00/01

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$52,773	\$45,273	\$36,486	\$31,948	\$30,036	\$27,060	\$19,557	\$19,991
<p>Description:</p> <p>Initial Spares are reparable components, assemblies, and subassemblies, as well as consumable items which are required as initial stockage (including readiness spares package requirements) in support of newly fielded vehicles; comm 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 on similar equipment, employment/deployment concepts, production schedules and other related information. Initial spares are procured using obligation authority in the Air Force Supply Management Activity Group (AFSMAG) 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 funds will reimburse the AFSMAG as outlays occur and are, therefore, budgeted based on outlay projections. Funds for spares not managed through the SBSS are budgeted in the year of the requirement.</p> <p>Replenishment Spares are components, assemblies, and subassemblies required for follow-on support of end items. Replenishment spares funded in this P-1 line are non-stock listed spares in support of classified programs which are not managed through the Standard Base Supply System. Therefore, these spares are exempt from the Air Force Working Capital Fund (AFWCF) and are budgeted in the year of the requirement.</p> <p>FY00/01 funding will procure initial and replenishment spares noted on attached P-40a.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
INITIAL SPARES	A								
ITEMS LESS \$5M, FIRE FIGHTING EQUIPMENT (P-1 LINE NO. 24)			\$126		\$190		\$276		\$6
COMSEC (P-1 LINE NO. 38)			\$2,536		\$2919		\$642		\$1,102
INTEL DATA HANDLING (P-1 LINE NO. 40)			\$446		\$387		\$0		\$0
INTEL COMMUNICATIONS EQUIPMENT (P-1 LINE NO. 42)			\$963		\$354		\$1,607		\$431
NATIONAL AIRSPACE SYSTEM (P-1 LINE NO. 44)			\$1,009		\$1,407		\$4,802		\$4,993
THEATER AIR CONTROL SYSTEM IMPROVEMENTS (P-1 LINE NO. 45)			\$5,848		\$4,074		\$2,812		\$2,359
WEATHER OBSERVATION FORECAST (P-1 LINE NO. 46)			\$1,376		\$748		\$16		\$1,854
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STRATEGIC COMMAND AND CONTROL (P-1 LINE NO. 47)			\$1,456		\$1,761		\$832		\$476
CHEYENNE MOUNTAIN COMPLEX (P-1 LINE NO. 48)			\$3,171		\$1,464		\$675		\$1,118
TAC SIGINT SUPPORT (P-1 LINE NO. 49)			\$452		\$153		\$0		\$0
MOBILITY COMMAND AND CONTROL (P-1 LINE NO. 53)			\$1,247		\$44		\$35		\$21
AIR FORCE PHYSICAL SECURITY (P-1 LINE NO. 54)			\$1,983		\$1,423		\$803		\$651
COMBAT TRAINING RANGES (P-1 LINE NO. 55)			\$2,942		\$1,823		\$2,066		\$779
THEATER BATTLE MANAGEMENT C2 SYSTEMS (P-1 LINE NO. 61)			\$2,743		\$2,307		\$2,004		\$2,002
NAVSTAR GPS (SPACE) (P-1 LINE NO. 66)			\$1,464		\$1,547		\$973		\$63
AF SATELLITE CONTROL NETWORK (P-1 LINE NO. 69)			\$678		\$1,604		\$1,639		\$2,309
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999		
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS					
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
ESMC/WSMC RANGE I&M SPACE (P-1 LINE NO. 70)			\$3,768		\$7,754		\$5,141		\$1,693
MILSATCOM SPACE (P-1 LINE NO. 71)			\$6,972		\$6,522		\$5,163		\$5,443
SPACE MODS (SPACE) (P-1 LINE NO. 72)			\$3,923		\$4,716		\$3,298		\$1,106
TACTICAL CE EQUIPMENT (P-1 LINE NO. 73)			\$5,056		\$1,888		\$1,348		\$3,048
TV EQUIPMENT (AFRTV) P-1 LINE NO. 79			\$252		\$241		\$242		\$247
COMM ELECTRONICS MODS (P-1 LINE NO. 81)			\$1,089		\$934		\$461		\$605
ITEMS LESS THAN \$5M ELECTRICAL EQUIPMENT (P-1 LINE NO. 91)			\$2,122		\$492		\$893		\$756
AIR BASE OPERABILITY (P-1 LINE NO. 95)			\$1,109		\$56		\$66		\$180
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
WEAPONS STORAGE & SECURITY SYSTEM (P-1 LINE NO. NONE)			\$42		\$47		\$0		\$0	
REPLENISHMENT SPARES	A									
COMSEC (P-1 LINE NO. 38)			\$0		\$0		\$80		\$81	
TAC SIGINT SUPPORT (P-1 LINE NO. 49)			\$0		\$418		\$567		\$581	
WEAPONS STORAGE & SECURITY SYSTEM (P-1 LINE NO. NONE)			\$0		\$0		\$45		\$44	
Totals:			\$52,773		\$45,273		\$36,486		\$31,948	
Remarks:										
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