

# DEPARTMENT OF THE AIR FORCE

## COMMITTEE STAFF PROCUREMENT BACKUP BOOK FY 2003 AMENDED BUDGET SUBMISSION FEBRUARY 2002



## OTHER PROCUREMENT, AIR FORCE

OFFICE ORIGIN: DIRECTORATE OF SUPPLY  
COMBAT SUPPORT DIVISION  
(AF/ILSR)

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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

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

## **IDENTIFICATION CODES**

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

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

## **GLOSSARY**

### Contract Method

ALLOT - Allotment

C - Competitive

DO - Delivery Order

FCA - Fund Cite Authorization

MIPR - Military Interdepartmental Purchase Request

OA - Obligation Authority

OPT - Option

OTH - Other

PO - Project Order

REQN - Requisition

SS - Sole Source

WP - Work Project

MIPR-OPT - Military Interdepartmental Purchase Request - Option

MIPR-C - Military Interdepartmental Purchase Request - Competitive

MIPR-SS - Military Interdepartmental Purchase Request - Sole Source

MIPR-OTH - Military Interdepartmental Purchase Request - Other

Contract Type

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

Contracted By

11 WING - 11<sup>th</sup> Support Wing, Washington, DC  
ACC - Air Combat Command, Langley AFB, VA  
AEDC - Arnold Engineering Development Center, Arnold AFB, TN  
AAC – Air Armament Center, Eglin AFB, FL

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

SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL

Bases/Organizations

11 WING - 11<sup>th</sup> Support Wing  
ACC - Air Combat Command  
AETC - Air Education & Training Command  
AFCAO - Air Force Computer Acquisition Office  
AFCESA - Air Force Civil Engineering Support Agency  
AFCIC - AF Communications & Information Center  
AFCSC - Air Force Cryptologic Service Center  
AFESC - Air Force Engineering Services Center  
AFGWC - Air Force Global Weather Central  
AFIT - Air Force Institute of Technology  
AFMC - Air Force Materiel Command  
AFMETCAL - Air Force Metrology and Calibration Office  
AFMLO - Air Force Medical Logistics Office  
AFNEWS - Air Force Information & News Service Center  
AFOSI - Air Force Office of Special Investigation  
AFOTEC - Air Force Operational Test & Evaluation Center  
AFPC - Air Force Personnel Center  
AFPSL - AF Primary Standards Lab  
AFR - Air Force Reserve  
AFSOC - AF Special Operations Command  
AFSPC - Air Force Space Command  
AIA - Air Intelligence Agency  
AMC - Air Mobility Command  
ANG - Air National Guard

AU - Air University  
AWS - Air Weather Service  
CIA - Central Intelligence Agency  
DGSC - Defense General Support Center  
DLA - Defense Logistics Center  
DOE - Department of Energy  
DSCC - Defense Supply Center, Columbus  
DPSC - Defense Personnel Support Center  
ER - Eastern Range  
ESC - Electronic Systems Center  
FAA - Federal Aviation Agency  
FBI - Federal Bureau of Investigation  
GSA - General Services Administration  
JCS - Joint Chiefs of Staff  
JCS - Johnson Space Center  
NATO - North Atlantic Treaty Organization  
NBS - National Bureau of Standards  
PACAF - Pacific Air Forces  
USAF - United States Air Force  
USAFA - United States Air Force Academy  
USAFE - United States Air Force Europe  
USCENTCOM - United States Central Command  
USEUCOM - United States European Command  
USMC - United States Marine Corps  
USSTRATCOM - United States Strategic Command  
WPAFB - Wright-Patterson AFB, OH  
WR - Western Range

## APPROPRIATION LANGUAGE

### OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment, and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not exceed 263 passenger motor vehicles for motor vehicles for replacement only, and the purchase of two vehicles required for physical security of personnel, notwithstanding price limitations applicable to passenger vehicles but not to exceed \$200,000 per vehicle; lease of passenger motor vehicles; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government and contractor-owned equipment layaway, \$10,523,946 to remain available for obligation until September 30, 2005.



## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	FY 2003 QUANTITY	FY 2003 COST	
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT									
PASSENGER CARRYING VEHICLES									
1	SEDAN, 4 DR 4X2	A	11	.2	54	.7	35	.6	U
2	STATION WAGON, 4X2	A			8	.1	28	.5	U
3	BUSES	A	68	5.5	72	4.3	120	8.0	U
4	AMBULANCES	A	1	.1	3	.3	10	.8	U
5	LAW ENFORCEMENT VEHICLE	A	85	1.6	79	1.5	70	1.9	U
6	ARMORED VEHICLE	A			3	.7	2	.5	U
CARGO + UTILITY VEHICLES									
7	TRUCK, CARGO-UTILITY, 3/4T, 4X4	A		.2		5.7		9.7	U
8	TRUCK, CARGO-UTILITY, 3/4T, 4X2	A						5.2	U
9	TRUCK MAINT/UTILITY/DELIVERY	A		17.9		10.4		10.5	U
10	FAMILY MEDIUM TACTICAL VEHICL	A		2.6					U
11	HIGH MOBILITY VEHICLE (MYP)	A		7.2		6.4		11.9	U
12	CAP VEHICLES	A		.8		.8		.8	U
13	ITEMS LESS THAN \$5,000,000	A		35.6		33.3		39.6	U
SPECIAL PURPOSE VEHICLES									
14	HMMWV, ARMORED	A		13.7		1.0		1.0	U
15	HMWWV, UP-ARMORED	A						3.6	U
16	TRACTOR, A/C TOW, MB-2	A						2.7	U
17	TRACTOR, A/C TOW, MB-4	A						6.1	U
18	TRACTOR, TOW, FLIGHTLINE	A		5.9		6.0		7.9	U

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DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	FY 2003 QUANTITY	FY 2003 COST	
19	TRUCK HYDRANT FUEL	A				5.9		7.9	U
20	ITEMS LESS THAN \$5,000,000	A		15.9		19.8		24.8	U
	FIRE FIGHTING EQUIPMENT								
21	TRUCK CRASH P-19	A		6.2					U
22	ITEMS LESS THAN \$5,000,000	A		6.9		5.0		10.0	U
	MATERIALS HANDLING EQUIPMENT								
23	TRUCK, F/L 10,000 LB	A		5.5		6.9		14.6	U
24	TUNNER LOADER	A	47	96.1	44	90.1	38	84.3	U
25	HALVERSEN LOADER	A	42	23.9	101	53.1	86	49.6	U
26	ITEMS LESS THAN \$5,000,000	A		4.6		4.1		10.9	U
	BASE MAINTENANCE SUPPORT								
27	TRUCK, DUMP	A				2.8			U
28	RUNWAY SNOW REMOV AND CLEANIN	A		7.2		12.5		15.5	U
29	MODIFICATIONS	A		1.1		3.4		5.0	U
30	ITEMS LESS THAN \$5,000,000	A		15.6		11.9		24.4	U
	CANCELLED ACCOUNT ADJUSTM								
31	CANCELLED ACCOUNT ADJUSTMENTS	A		2.1					U
	TOTAL VEHICULAR EQUIPMENT			276.2		286.8		358.1	
	BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIP								
	COMM SECURITY EQUIPMENT (COMSEC)								
32	COMSEC EQUIPMENT	A		22.2		34.9		26.3	U
33	MODIFICATIONS (COMSEC)	A		.3		.5		.5	U

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FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	FY 2003 QUANTITY	FY 2003 COST	
INTELLIGENCE PROGRAMS									
34	INTELLIGENCE TRAINING EQUIPME	A		1.5		1.2		1.3	U
35	INTELLIGENCE COMM EQUIP	A		18.5		3.4		9.0	U
ELECTRONICS PROGRAMS									
36	AIR TRAFFIC CTRL/LAND SYS (AT	A		8.0		4.7		52.0	U
37	NATIONAL AIRSPACE SYSTEM	A		55.3		46.6		55.6	U
38	THEATER AIR CONTROL SYS IMPRO	A		14.7		19.4		16.7	U
39	WEATHER OBSERV/FORCAST	A		26.5		33.5		29.1	U
40	STRATEGIC COMMAND AND CONTROL	A		20.2		20.9		23.9	U
41	CHEYENNE MOUNTAIN COMPLEX	A		.6		30.4		17.6	U
42	TAC SIGINT SUPPORT	A		1.7		1.0		.4	U
43	DRUG INTERDICTION PROGRAM	A		18.4					U
SPECIAL COMM-ELECTRONICS PROJECTS									
44	GENERAL INFORMATION TECHNOLOG	A		88.2		59.4		55.8	U
45	AF GLOBAL COMMAND & CONTROL S	A		15.1		15.0		28.2	U
46	MOBILITY COMMAND AND CONTROL	A		9.3		8.8		9.7	U
47	AIR FORCE PHYSICAL SECURITY S	A		36.5		61.9		41.8	U
48	COMBAT TRAINING RANGES	A		44.8		111.2		17.2	U
49	MINIMUM ESSENTIAL EMERGENCY C	A		1.5		2.1		1.1	U
50	C3 COUNTERMEASURES	A		14.0		9.6		13.4	U
51	BASE LEVEL DATA AUTO PROGRAM	A		24.1		12.8		12.8	U
52	THEATER BATTLE MGT C2 SYS	A		54.8		47.0		56.2	U

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APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	FY 2003 QUANTITY	FY 2003 COST	
AIR FORCE COMMUNICATIONS									
53	BASE INFORMATION INFRASTRUCTU	A		178.9		155.0		214.7	U
54	USCENTCOM	A		8.3		10.8		9.8	U
55	DEFENSE MESSAGE SYSTEM (DMS)	A		17.8		13.2		19.0	U
DISA PROGRAMS									
56	NAVSTAR GPS SPACE	A		9.8		4.0		13.1	U
57	NUDET DETECTION SYS (NDS) SPA	A		2.6		8.4		7.9	U
58	AF SATELLITE CONTROL NETWORK	A		15.7		29.5		45.1	U
59	SPACELIFT RANGE SYSTEM SPACE	A		95.0		131.8		108.3	U
60	MILSATCOM SPACE	A		24.6		15.9		45.7	U
61	SPACE MODS SPACE	A		26.8		31.7		10.9	U
ORGANIZATION AND BASE									
62	TACTICAL C-E EQUIPMENT	A		94.4		94.4		134.4	U
63	COMBAT SURVIVOR EVADER LOCATE	B		7.6				11.0	U
64	RADIO EQUIPMENT	A		16.5		13.8		8.8	U
65	TV EQUIPMENT (AFRTV)	A		2.0		2.6		2.6	U
66	CCTV/AUDIOVISUAL EQUIPMENT	A		1.9		3.3		3.3	U
67	BASE COMM INFRASTRUCTURE	A		80.0		76.4		202.9	U
68	CAP COM & ELECT	A		.4		7.0			U
69	ITEMS LESS THAN \$5,000,000	A		8.5		6.1		9.3	U
MODIFICATIONS									
70	COMM ELECT MODS	A		46.4		49.1		68.9	U
TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIP				1,113.5		1,177.2		1,384.5	

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DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	FY 2003 QUANTITY	FY 2003 COST	
BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIP									
TEST EQUIPMENT									
71	BASE/ALC CALIBRATION PACKAGE	A		10.0		12.0		13.8	U
72	PRIMARY STANDARDS LABORATORY	A		1.1		1.1		1.1	U
73	ITEMS LESS THAN \$5,000,000	A		9.5		17.5		8.1	U
PERSONAL SAFETY AND RESCUE EQUIP									
74	NIGHT VISION GOGGLES	A		2.9		3.3		3.8	U
75	ITEMS LESS THAN \$5,000,000	A		11.8		10.6		9.3	U
DEPOT PLANT + MATERIALS HANDLING EQ									
76	MECHANIZED MATERIAL HANDLING	A		22.9		19.4		25.6	U
77	ITEMS LESS THAN \$5,000,000	A		9.2		9.4		12.3	U
ELECTRICAL EQUIPMENT									
78	FLOODLIGHTS	A		17.3		6.9		11.0	U
79	ITEMS LESS THAN \$5,000,000	A		7.4		6.1		6.2	U
BASE SUPPORT EQUIPMENT									
80	BASE PROCURED EQUIPMENT	A		23.6		11.8		11.3	U
81	MEDICAL/DENTAL EQUIPMENT	A		16.3		15.4		14.0	U
82	ENVIRONMENTAL PROJECTS	A		.9		.9		.8	U
83	AIR BASE OPERABILITY	B		2.9		5.9		5.7	U
84	PHOTOGRAPHIC EQUIPMENT	A		6.0		5.8		5.9	U
85	PRODUCTIVITY ENHANCING CAPITA	A		8.2		7.9		7.8	U
86	MOBILITY EQUIPMENT	A		49.6		30.3		103.0	U

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DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			QUANTITY	FY 2001 COST	QUANTITY	FY 2002 COST	QUANTITY	FY 2003 COST	
87	AIR CONDITIONERS	A		9.2		7.1		9.6	U
88	ITEMS LESS THAN \$5,000,000	A		17.9		24.8		16.1	U
	SPECIAL SUPPORT PROJECTS								
89	INTELLIGENCE PRODUCTION ACTIV	A		40.9		56.7		47.2	U
90	TECH SURV COUNTERMEASURES EQ	A		2.9		4.2		4.1	U
91	DARP RC135	A		15.6		14.1		13.1	U
92	DARP, MRIGS	A		87.9		88.6		115.8	U
93	SELECTED ACTIVITIES	A		6,886.7		6,222.9		8,098.9	U
94	SPECIAL UPDATE PROGRAM	A		135.1		161.2		178.9	U
95	DEFENSE SPACE RECONNAISSANCE	A		8.9		6.8		6.7	U
96	INDUSTRIAL PREPAREDNESS	A		.9		1.1			U
97	MODIFICATIONS	A		.2		.2		.2	U
98	FIRST DESTINATION TRANSPORTAT	A		8.0		9.2		9.8	U
	TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIP			7,413.6		6,761.2		8,740.0	
	BUDGET ACTIVITY 05: SPARE AND REPAIR PARTS								
	SPARES AND REPAIR PARTS								
99	SPARES AND REPAIR PARTS	A		36.8		32.9		41.4	U
	TOTAL SPARE AND REPAIR PARTS			36.8		32.9		41.4	
	TOTAL OTHER PROCUREMENT, AIR FORCE			8,840.1		8,258.2		10,523.9	

## **VEHICULAR EQUIPMENT**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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VEHICULAR EQUIPMENT

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# UNCLASSIFIED

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SEDAN 4 DR 4x2				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		11	54	35	100	38	25	18
<b>COST</b> (in Thousands)		\$230	\$686	\$552	\$1,468	\$780	\$575	\$635
<p><b>Description:</b></p> <p>Sedans include the procurement of compact, mid-size and large sized vehicles. These vehicles are used to transport personnel in performance of official duties. Their use is general in nature from installation to installation, providing transportation for all levels of personnel to attend meetings, functions, make visits and the everyday use of travel from place to place. Each vehicle utilizes a four or six cylinder cost effective gasoline or compressed natural gas (CNG) engine. A portion of these is dedicated for use by the OSI.</p> <p>Failure to provide these vehicles can reduce military and civilian personnel response time in supporting their mission. Transportation of military and civilian dignitaries and top level leaders would be diminished if these vehicles were not purchased. The sedans are also able to be used as alternatively fueled vehicles which will impact our environment. Other vehicles would have to be used for transportation which would take them away from their original duties and expend man hours working around this situation. Further, these sedans are purchased overseas which make them indigenous to the local country. This allows Air Force vehicles to blend in with local national vehicles, thereby increasing safety of personnel from terrorist threats.</p> <p>Items requested in FY03 are identified on the following P-40a and are representative of Items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 964 vehicles against an inventory objective of 1126.</p> <p>Identification code: A</p>								
		<b>P-1 ITEM NO</b> 1			<b>PAGE NO:</b> 1			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SEDAN 4 DR 4x2					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
COMPACT UNITED STATES (BPAC 1012) (1)	A					25	\$311	20	\$286
COMPACT JAPAN (BPAC 1014)	A					14	\$144		
COMPACT UNITED KINGDOM (BPAC 1017)	A					2	\$34		
COMPACT KOREA (BPAC 101A)	A					3	\$34		
MID-SIZE AFE (BPAC 101C)	A							2	\$50
COMPACT SEDAN AFE (BPAC 101F)	A							10	\$148
COMPACT UNITED STATES BI-FUEL (BPAC 101H)	A			4	\$98	4	\$80		
SUB-COMP UNITED STATES (BPAC 101J) (2)	A					2	\$50	2	\$50
COMPACT SEDAN SINGAPORE (BPAC 101M)	A			2	\$33				
LARGE SEDAN UNITED STATES (BPAC 101X) (3)	A							1	\$18
MID-SIZE SEDAN GERMANY (BPAC 101Y) (4)	A			1	\$24				
COMPACT GERMANY (BPAC 101Z) (5)	A			4	\$75	4	\$33		
<b>Totals:</b>				11	\$230	54	\$686	35	\$552
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 1				<b>PAGE NO:</b> 2		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: SEDAN 4 DR 4x2						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
COMPACT UNITED STATES (BPAC 1012)										
FY02	25	12,427	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUL 02	Y		
FY03	20	14,285	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 03	JUL 03	Y		
COMPACT JAPAN (BPAC 1014)										
FY02	14	10,255	AFMC/WR-ALC	MIPR/OTH/FFP	OSI (UNKNOWN)	MAR 02	JUL 02	Y		
COMPACT UNITED KINGDOM (BPAC 1017)										
FY02	2	16,863	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	MAR 02	JUL 02	Y		
COMPACT KOREA (BPAC 101A)										
FY02	3	11,433	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	MAR 02	JUL 02	Y		
MID-SIZE AFE (BPAC 101C)										
FY03	2	25,200	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	MAR 03	JUL 03	Y		
P-1 ITEM NO		1		PAGE NO:		3		Page 1 of 3		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: SEDAN 4 DR 4x2						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
COMPACT SEDAN AFE (BPAC 101F)										
FY03	10	14,805	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWN)	MAR 03	JUL 03	Y		
COMPACT UNITED STATES BI-FUEL (BPAC 101H)										
FY01	4	24,500	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/GM DETROIT MI	DEC 01	APR 02			
FY02	4	19,979	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUL 02	Y		
SUB-COMP UNITED STATES (BPAC 101J)										
FY02	2	25,000	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUL 02	Y		
FY03	2	25,000	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 03	JUL 03	Y		
COMPACT SEDAN SINGAPORE (BPAC 101M)										
FY01	2	16,500	AFMC/WR-ALC	FCA/FFP	PACAF REGENT MOTORS/SINGAPORE	MAY 01	JUN 01			
LARGE SEDAN UNITED STATES (BPAC 101X)										
FY03	1	17,637	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	MAR 03	JUL 03	Y		
		<b>P-1 ITEM NO</b> 1				<b>PAGE NO:</b> 4		Page 2 of 3		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: SEDAN 4 DR 4x2						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
MID-SIZE SEDAN GERMANY (BPAC 101Y)										
FY01	1	24,000	AFMC/WR-ALC	FCA/FFP	OSI/MEURES OPAL/HEINSBERG GE	JUL 01	JAN 02			
COMPACT GERMANY (BPAC 101Z)										
FY01	4	18,750	AFMC/WR-ALC	FCA/FFP	OSI/FORD-WERKE/KOLN GE	SEP 01	JAN 02			
FY02	4	8,356	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	MAR 02	JUL 02	Y		
<b>REMARKS:</b>										
		P-1 ITEM NO 1				PAGE NO: 5	Page 3 of 3			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> STATION-WAGON, 4x2				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		0	8	28	99	5	8	11
<b>COST</b> (in Thousands)		\$0	\$124	\$476	\$1,642	\$84	\$137	\$194
<p><b>Description:</b></p> <p>This vehicle is a compact-size vehicle equipped with a fuel-efficient gasoline engine. Its primary purpose is for the transportation of personnel and light cargo within and between installations and to/from off-base locations in an urban environment. Without these vehicles, cargo and tools would not be delivered to the working units/field in a timely manner and may increase downtime for Maintenance/Transportation and/or Air Crews. The Air Force's policy is to lease general purpose vehicles (sedans, station wagons, etc.), however, it's the Air Force's objective to lease where it makes sense and buy where leasing is not feasible. Some areas determined to not be feasible include some overseas locations, "black world" compartmentalized programs and some high security areas located near missile installations. The requested replacement vehicles are to fill requirements for these situations. Failure to provide funds for this program could reduce military and civilian personnel response time in supporting their mission.</p> <p>Items requested in FY03 are identified on the P40a and are representative of items to be procured. Items procured during execution may be changed based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 278 against an inventory objective of 417. Fiscal constraints limit FY03 procurement to 28 units.</p> <p>Identification Code: A</p>								
	<b>P-1 ITEM NO</b> 2		<b>PAGE NO:</b> 6		Page 1 of 1			

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A) DATE: FEBRUARY 2002

APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT

P-1 NOMENCLATURE: STATION-WAGON, 4x2

PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
STATION WAGON UNITED STATES (BPAC 1111)	A					5	\$85	20	\$371
STATION WAGON JAPAN (BPAC 1112)	A					1	\$14	8	\$105
STATION WAGON SPAIN (BPAC 1115)	A					2	\$25		
<b>Totals:</b>						<b>8</b>	<b>\$124</b>	<b>28</b>	<b>\$476</b>

Remarks:

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: STATION-WAGON, 4x2						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
STATION WAGON UNITED STATES (BPAC 1111)										
FY02	5	17,095	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUL 02	Y		
FY03	20	18,539	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 03	JUL 03	Y		
STATION WAGON JAPAN (BPAC 1112)										
FY02	1	13,727	AFMC/WR-ALC	MIPR/OTH -	GSA (UNKNOWN)	MAR 02	SEP 02	Y		
FY03	8	13,100	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 03	SEP 03	Y		
STATION WAGON SPAIN (BPAC 1115)										
FY02	2	12,651	AFMC/WR-ALC	MIPR/OTH/FFP	AFE (UNKNOWN)	MAR 02	SEP 02	Y		
REMARKS:										
		P-1 ITEM NO 2			PAGE NO: 8			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BUSES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		68	72	120	166	37	93	101
<b>COST</b> (in Thousands)		\$5,471	\$4,307	\$7,982	\$10,273	\$2,571	\$4,889	\$7,207
<p><b>Description:</b></p> <p>These commercial buses address a broad range of mission related mass transit requirements, dictating the procurement of a variety of sizes, ranging from 14-52 passenger (pax) capacity. This program provides bases with a fuel efficient diesel vehicle for base shuttle bus operations and for transporting large aircraft crews together with their related flight gear during military exercises. Air Force buses are also used to support any official base function requiring transport of large groups of personnel. The bus family also offers a 52 pax dedicated Compressed Natural Gas (CNG) vehicle in order to accommodate Executive Order 13149. This vehicle group also provides transportation for protocol requirements and special events (e.g. Congressional, Executive and the highest levels of DoD). The various Air Force Bands are transported by intercity buses to appearances across the United States. Failure to fund this program of vehicles will result in restricting the transportation of training groups within the Air Education and Training Command (AETC), and transportation of air crews and passengers to and from the flight line. Shuttle bus service for temporary duty personnel within the base would be extremely limited. The non-availability of this vehicle will cause less economical means of transportation to be used. This vehicle is among the top four most critical items within AETC.</p> <p>Items requested in FY03 are identified on the P40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 923 vehicles against an inventory objective of 1392. Fiscal constraints limit the number of buses to be procured in FY03 to 120.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 3			<b>PAGE NO:</b> 9			
						Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT					<b>P-1 NOMENCLATURE:</b> BUSES					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
28 PAX US (BPAC 124A)	A			12	\$781	26	\$1,516	44	\$3,022	
28 PAX US CNG (BPAC 124B)	A					7	\$484	9	\$645	
41 PAX US (BPAC 124C)	A			5	\$1,419			1	\$312	
44 MED US (BPAC 124K)	A			6	\$467			1	\$85	
44 TRANS US (BPAC 124L)	A			31	\$2,079	24	\$1,425	32	\$2,030	
INTRA BUS US (BPAC 124N)	A					1	\$99			
44 PAX US CNG (BPAC 124P)	A					2	\$165	7	\$600	
28 PAX JAPAN (BPAC 124X)	A					7	\$436	8	\$393	
16 PAX CNG US (BPAC 1242)	A							1	\$54	
16 PAX US (BPAC 1243)	A			9	\$399	4	\$157	16	\$779	
16 PAX JAPAN (BPAC 1244)	A			1	\$34	1	\$25			
23 PAX SURREY (BPAC 1245)	A			1	\$57			1	\$62	
16 PAX GE (BPAC 1246)	A			3	\$235					
<b>Totals:</b>				68	\$5,471	72	\$4,307	120	\$7,982	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 3				<b>PAGE NO:</b> 10			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: BUSES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
28 PAX US (BPAC 124A)										
FY01	2	64,899	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/BLUE BIRD, FORT VALLEY GA	SEP 01	FEB 02			
FY01	10	65,112	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/THOMAS BUILT, HIGHPOINT NC	SEP 01	FEB 02			
FY02	26	58,293	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	44	68,692	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
28 PAX US CNG (BPAC 124B)										
FY02	7	69,122	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	9	71,666	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
41 PAX US (BPAC 124C)										
FY01	5	283,898	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (BLUE BIRD, FT VALLEY GA)	SEP 01	MAR 02			
FY03	1	312,052	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	JUN 03	OCT 03	Y		
44 MED US (BPAC 124K)										
FY01	6	77,831	AFMC/WR-ALC	MIPR/OPT/FFP	GSA (BLUE BIRD, FT VALLEY GA)	APR 01	AUG 01			
FY03	1	84,615	AFMC/WR-ALC	MIPR/OPT/FFP	GSA (UNKNOWN)	JUN 03	SEP 03	Y		
44 TRANS US (BPAC 124L)										
		<b>P-1 ITEM NO</b> 3		<b>PAGE NO:</b> 11		Page 1 of 3				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: BUSES						
ITEM / FISCAL 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	9	63,865	AFMC/WR-ALC	MIPR/OPT/FFP	GSA (BLUE BIRD, FT VALLEY GA)	OCT 01	DEC 01			
FY01	22	68,373	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (THOMAS BUILT, HIGHPOINT NC)	OCT 01	DEC 01			
FY02	24	59,376	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	32	63,438	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
INTRA BUS US (BPAC 124N)										
FY02	1	98,806	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
44 PAX US CNG (BPAC 124P)										
FY02	2	82,528	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	7	85,717	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
28 PAX JAPAN (BPAC 124X)										
FY02	7	62,324	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	8	49,127	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (UNKNOWN)	FEB 03	JUN 03	Y		
16 PAX CNG US (BPAC 1242)										
FY03	1	53,504	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
		<b>P-1 ITEM NO</b> 3				<b>PAGE NO:</b> 12				Page 2 of 3

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: BUSES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
16 PAX US (BPAC 1243)										
FY01	9	44,310	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (BLUE BIRD, FT VALLEY GA)	MAY 01	OCT 01			
FY02	4	39,219	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	MAR 02	JUN 02	Y		
FY03	16	48,673	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	FEB 03	JUN 03	Y		
16 PAX JAPAN (BPAC 1244)										
FY01	1	33,898	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (NISSAN TEKYO, JAPAN)	AUG 01	OCT 01			
FY02	1	25,000	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (UNKNOWN)	MAR 02	JUN 02	Y		
23 PAX SURREY (BPAC 1245)										
FY01	1	56,543	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (COLONIAL, FREDERICK MD)	FEB 01	JUN 01			
FY03	1	62,275	AFMC/WR-ALC	MIPR/OTH/FFP	GSA (UNKNOWN)	AUG 03	OCT 03	Y		
16 PAX GE (BPAC 1246)										
FY01	3	78,303	AFMC/WR-ALC	FCA/FFP	USAFE (MB-TRONIC, KLEINBLITTERSDORF, GE)	AUG 01	FEB 02			
REMARKS:										
		P-1 ITEM NO 3				PAGE NO: 13		Page 3 of 3		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AMBULANCES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		1	3	10	43	9	15	17
<b>COST</b> (in Thousands)		\$63	\$252	\$755	\$3,254	\$747	\$1,124	\$1,330
<p><b>Description:</b></p> <p>Ambulances include both bus ambulances (AMBUS) and modular ambulances. The bus ambulance is a 44-passenger bus converted to accommodate massive patient transport for medical emergency situations. Bus ambulances are used in medical evacuations, including Aerovac support. During peacetime they are primarily used for mass casualty situations during exercises and real world situations such as disaster relief and assistance. They are also used for training such as Combat Medical Readiness Training, contingency exercises such as Red Flag and other official functions. They are used to transport medical personnel to the accident site as well as to transport litter patients from injury sites to hospitals. For some customers such as Pacific Air Force users, the AMBUS is used for transporting medical personnel in support of Air Expeditionary Forces taskings during real world deployments. They are also used for War Readiness Material Support.</p> <p>The modular ambulances are standard commercial ambulances in both two and four wheel drive configurations. They also perform medical evacuation as well as movement of patients under field conditions, aircraft crash rescue operations, and both emergency and routine transportation of patients to and from field medical facilities and hospitals. Failure to provide sufficient quantities of these vehicles potentially could contribute to the loss of life by not providing the required level of medical support during emergency situations.</p> <p>Items requested in FY03 are identified on the P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 328 against an inventory objective of 722. Fiscal constraints limit the requested FY03 procurement quantity of 10.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 4			<b>PAGE NO:</b> 14			Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AMBULANCES					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AMB, MOD 4X2 (BPAC 1351)	A							1	\$64
AMB, MOD 4X4 (BPAC 1354)	A			1	\$63			4	\$260
BUS, AMB 44 PX CON US (BPAC 1359)	A					3	\$252	5	\$431
<b>Totals:</b>				1	\$63	3	\$252	10	\$755
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 4				<b>PAGE NO:</b> 15		Page 1 of 1	



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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: AMBULANCES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
AMB, MOD 4X2 (BPAC 1351)										
FY03	1	64,433	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	SEP 03	Y		
AMB, MOD 4X4 (BPAC 1354)										
FY01	1	63,000	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA/ WHEELED COACH WINTER PARK, FL	JUL 01	NOV 01			
FY03	4	65,000	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	SEP 03	Y		
BUS, AMB 44 PX CON US (BPAC 1359)										
FY02	3	83,900	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 02	SEP 02	Y		
FY03	5	86,200	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	SEP 03	Y		
<b>REMARKS:</b>										
				<b>P-1 ITEM NO</b> 4				<b>PAGE NO:</b> 16	Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> LAW ENFORCEMENT VEHICLE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		85	79	70	47	23	23	23
<b>COST</b> (in Thousands)		\$1649	\$1,531	\$1,910	\$875	\$483	\$495	\$499
<p><b>Description:</b></p> <p>This vehicle consists of commercial gasoline engine powered sedans equipped with a heavy duty component package for law enforcement and security missions. This vehicle is also available in bifuel/gasoline powered engines in order to accommodate Executive Order 13149, 21 Apr 00, which directed federal agencies to acquire specific minimum levels of alternate fuel vehicles. Due to high mileage vehicle usage, these vehicles have a four year life expectancy. Failure to provide a sufficient quantity of this type vehicle contributes to the compromise of military and civilian personnel safety. It also would hinder the response time to emergency situations as well as interfere with providing adequate traffic control, patrolling and securing of normal base operations. Force protection is a high priority at all installations Air Force wide. The use and visibility of Law Enforcement Vehicles is a primary deterrent to potential terrorism and crime.</p> <p>Items requested in FY03 are identified on the P40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 124 Law Enforcement Vehicles against an inventory objective of 498. Due to fiscal constraints, only 70 units can be procured in FY03.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 5			<b>PAGE NO:</b> 17			Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> LAW ENFORCEMENT VEHICLE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
UNITED STATES GAS (BPAC 1601)	A			80	\$1,549	70	\$1,343	65	\$1,785
JAPAN GAS (BPAC 1602)	A			5	\$100	9	\$188	5	\$125
<b>Totals:</b>				85	\$1,649	79	\$1,531	70	\$1,910
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 5				<b>PAGE NO:</b> 18		Page 1 of 1	

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> LAW ENFORCEMENT VEHICLE
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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
UNITED STATES GAS (BPAC 1601)									
FY01	80	19,362	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/GENERAL MOTORS DETRIOT, MI	DEC 01	APR 02		
FY02	70	19,180	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/GENERAL MOTORS DETRIOT, MI	DEC 01	APR 02		
FY03	65	27,462	AFMC/WR-ALC	MIPR/OTH/FFP	GSA/GENERAL MOTORS DETRIOT, MI	FEB 03	MAY 03	Y	
JAPAN GAS (BPAC 1602)									
FY01	5	20,000	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY/MAZDA ENFINITI TOKYO, JAPAN	JUL 01	OCT 01		
FY02	9	20,889	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (UNKNOWN)	MAR 02	JUL 02	Y	
FY03	5	25,000	AFMC/WR-ALC	MIPR/OTH/FFP	NAVY (UNKNOWN)	JAN 03	JUN 03	Y	

**REMARKS:**

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		0	3	2	1	1	1	1
<b>COST</b> (in Thousands)		\$0	\$684	\$465	\$250	\$250	\$250	\$250
<p><b>Description:</b></p> <p>The Air Force Office of Special Investigations (AFOSI) has responsibility for non-tactical Heavy Armored Vehicles (HAVs) for the US Air Force. The HAVs are used during Protective Service Operations (PSO) to transport permanent party, visiting senior U.S. military and DoD civilian officials, as well as senior U.S. executive and legislative branch dignitaries, within designated high terrorist threat areas. Examples of persons supported: The President of the United States, members of Congress, the Secretary of Defense, Under Secretaries of Defense and AF, Secretary of the Air Force, Secretary of the Army, Chief of Staff of the Air Force, Vice Chief of Staff of the Air Force, Army Chiefs of Staff, and other U.S. military command officials. During travel, HAVs provide protection to senior U.S. leaders against terrorist attacks involving blasts and bullets.</p> <p>HAV requirements are determined from threat assessment and vulnerability surveys of terrorist threats which are fully investigated and validated by U.S./foreign, federal and military (e.g. CIA and DoD) counterintelligence and anti-terrorism experts. Based on the current threat assessment, AFOSI continues to have a validated global requirement for 14 HAVs. All the vehicles are located in overseas locations. AFOSI has sole responsibility for the Air Force HAV assets and maintains a rapidly aging fleet.</p> <p>Vehicles with factory installed armor include a strengthened suspension and brakes required to hold the weight of armor, as well as a warranty. Purchasing HAVs with factory installed armoring reduces the risk of mechanical and armoring problems known to occur with after market HAVs.</p> <p>The Air Force currently has three HAVs requiring replacement in FY02 based on their poor condition. The first is a 1982 model that has exceeded its life expectancy and does not meet current HAV ballistic standards. The two remaining HAVs are 1992 after market armoring models that have a poor maintenance history, i.e. numerous mechanical and armoring problems due to the additional weight of armoring. To preclude degradation of PSO, the after market armoring company strongly recommends replacement of these vehicles every five to seven years.</p>								
	<b>P-1 ITEM NO</b> 6			<b>PAGE NO:</b> 20		Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLES		
<p><b>Description (continued):</b></p> <p>Restoration of the after market HAVs is not cost effective. Although an 8 year replacement cycle for factory HAVs is preferred, the current AF funding schedule replaces HAVs every 10 years. Failure to fund this request severely impacts AFOSI's ability to protect our senior military and civilian leaders. These vehicles are especially critical to the protection of senior US personnel in the aftermath of the September 11th and USS Cole terrorist attacks.</p> <p>In late FY01, Congress approved a reprogramming action, DD Form 1415-1, to procure 1 HAV for \$189,000. This amount/quantity is not reflected in ABIDES.</p> <p>Items requested in FY03 are identified on the P40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 7 against an inventory of 14. Fiscal constraints limit FY03 procurement to 2 units.</p> <p>Identification Code: A</p>				
	<b>P-1 ITEM NO</b> 6		<b>PAGE NO:</b> 21	Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLES						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
ARMORED SEDAN GERMANY (BPAC 1702)	A					3	\$684	2	\$465	
<b>Totals:</b>						3	\$684	2	\$465	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 6				<b>PAGE NO:</b> 22			
							Page 1 of 1			

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ARMORED VEHICLES
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ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
ARMORED SEDAN GERMANY (BPAC 1702)									
FY02 *	3	228,000	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	APR 02	DEC 02	Y	
FY03 *	2	232,500	AFMC/WR-ALC	FCA/FFP	OSI (UNKNOWN)	APR 03	DEC 03	Y	

**REMARKS:**  
 \* Procurement conducted through various vendors based on locality needs and specific requirements. Vendors such as Mercedes, BMW, and US companies used.



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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, CARGO-UTILITY, 3/4T, 4x4				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$189	\$5,733	\$9,681	\$6,358	\$10,087	\$9,341	\$8,756
<p><b>Description:</b></p> <p><b>Truck, Cargo-Utility, 3/4 Ton, 4x4</b> is a commercial four-door, six passenger cargo truck which equips our forces with a four-wheel-drive, automatic transmission vehicle. It permits crews and large cargo to travel together to off-highway sites. It has the capability for handling the more austere and rugged taskings. Four-wheel-drive capability is critical to off-highway winter operations to isolated missile, communications, weather and radar sites. It is primarily used by the Mobility Engineering Installation and Combat Communication Squadrons. This vehicle is used in support of world wide contingency situations as well as training and exercise missions. It is also used in direct operational support of Strategic Weapons Systems (silo crew changes), Fighter and Bomber Aircraft Crews. The Security Forces use it in a force protection role. Failure to fund sufficient quantities of this type vehicle would mean inadequate support for the Missile Maintenance Squadrons whose personnel must travel many unpaved roads to reach their designated sites. It would further lead to a lack of transportation for personnel and equipment necessary to maintain the needed cables between the missile launch and missile alert facilities, ensuring the integrity of the entire missile system.</p> <p>* FY01 funds are included in P-1 Line Item #13, Items Less Than \$5 million, Cargo &amp; Utility Vehicles category.</p> <p>Items requested in FY03 are identified on the P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 2578 against an inventory objective of 3488. Fiscal constraints limit the FY03 procurement to 327 units.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 7			<b>PAGE NO:</b> 24			Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, CARGO-UTILITY, 3/4T, 4x4					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
US GAS/DIESEL (BPAC 2061)	A			5	\$147	64	\$1,804	264	\$7,628
JAPAN GAS (BPAC 2062)	A			3	\$42	13	\$219	16	\$242
US BIFUEL (BPAC 2064)	A					100	\$3,710	47	\$1,811
<b>Totals:</b>				8	\$189	177	\$5,733	327	\$9,681
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 7				<b>PAGE NO:</b> 25		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK, CARGO-UTILITY, 3/4T, 4x4						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
US GAS/DIESEL (BPAC 2061)										
FY01	4	29,301	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (FORD) DEARBORN MI	MAR 01	JUN 01			
FY01 *	1	29,301	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (FORD) DEARBORN MI	SEP 01	DEC 01			
FY02	64	28,180	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 02	MAY 02	Y		
FY03	264	28,893	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	MAY 03	Y		
JAPAN GAS (BPAC 2062)										
FY01	3	14,165	AFMC/WR-ALC	MIPR/FP	NAVY (NISSAN) TOKYO, JAPAN	JUL 01	DEC 01			
FY02	13	16,877	AFMC/WR-ALC	MIPR/FP	NAVY (UNKNOWN)	JUN 02	SEP 02	Y		
FY03	16	15,148	AFMC/WR-ALC	MIPR/FP	NAVY (UNKNOWN)	JUN 03	SEP 03	Y		
US BIFUEL (BPAC 2064)										
FY02	100	37,104	AFMC/WR-ALC	MIPR/IDIQ	GSA (UNKNOWN)	JUN 02	SEP 02	Y		
FY03	47	38,538	AFMC/WR-ALC	MIPR/IDIQ	GSA (UNKNOWN)	JUN 03	SEP 03	Y		
<b>REMARKS:</b> * FY01 BPAC 2061- GSA left one vehicle off of an order. A separate MIPR was submitted.										
		<b>P-1 ITEM NO</b> 7			<b>PAGE NO:</b> 26			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, CARGO-UTILITY, 3/4T, 4x2				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$0	\$0	\$5,162	\$0	\$856	\$873	\$909
<p><b>Description:</b></p> <p><b>Truck, Cargo-Utility, 3/4 Ton, 4X2</b> is a commercial four-door, six passenger cargo truck which equips our forces with a two-wheel-drive automatic transmission vehicle. This vehicle is operated on a base where off-highway, four wheel drive capability is not required. It permits crews and cargo to travel together to assigned work-sites. It is used in direct support of weapons systems such as missiles, strategic aircraft and tactical fighter aircraft. For the Air National Guard, this vehicle is used for aircraft sorties generation and sortie containment on a daily basis. The vehicles support Flightline Maintenance Crews and their equipment, Aerial Ports and Flight line expedite functions along with Base Supply and Civil Engineering. For HQ AMC, this vehicle is the most versatile asset, utilized by almost every discipline. It is mission essential for Explosive Ordnance Disposal (EOD) and Security Forces Combat Arms Training (CATM). This vehicle is ideal for the Medical Bio-environmental personnel whose teams of 4-6 personnel are transported to inspection sites as one unit. For HQ USAFE, this vehicle provide intra-base and theater movement of personnel and cargo operating over a million miles per year supporting USAF, EUCOM and USAFE operational taskings. These vehicles are critical to the support of all facets of base support including Civil Engineering, Supply and Transportation. Failure to fund sufficient quantities of this vehicle would mean inadequate support for many diverse base operations.</p> <p>* FY01 and FY02 funds are included in P-1 Line Item #13, Items Less Than \$5 million, Cargo and Utility Vehicles category.</p> <p>Items requested in FY03 are identified on the P40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 1464 against an inventory objective of 2231. Fiscal constraints limit the requested FY03 procurement quantity to 199.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 8			<b>PAGE NO:</b> 27			
						Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, CARGO-UTILITY, 3/4T, 4x2					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
US GAS/DIESEL (BPAC 2071)	A							190	\$4,892
JAPAN GAS (BPAC 2074)	A							2	\$25
US BIFUEL (BPAC 2076)	A							7	\$245
<b>Totals:</b>								199	\$5,162
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 8				<b>PAGE NO:</b> 28		Page 1 of 1	

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, CARGO-UTILITY, 3/4T, 4x2						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
US GAS/DIESEL (BPAC 2071)										
FY03	190	25,747	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	JUN 03	Y		
JAPAN GAS (BPAC 2074)										
FY03	2	12,282	AFMC/WR-ALC	MIPR/FP	NAVY (UNKNOWN)	AUG 03	DEC 03	Y		
US BIFUEL (BPAC 2076)										
FY03	7	35,001	AFMC/WR-ALC	MIPR/OPT/IDIQ	GSA (UNKNOWN)	MAR 03	JUN 03	Y		
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 8				<b>PAGE NO:</b> 29				Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK MAINT/UTILITY/DELIVERY VAN				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$17,888	\$10,367	\$10,475	\$6,009	\$13,571	\$11,758	\$10,174
<p><b>Description:</b></p> <p>This program includes the procurement of a vehicle group consisting of commercial trucks with double rear doors as well as delivery vans with cut-off cabs and full-width rear doors and windows. Defining characteristics include two-wheel drive, automatic transmissions and diesel engines. The primary requirement for this vehicle is to support aircraft sortie generation. It also keeps cargo/supplies out of inclement weather, transports ammunition and weapons for combat training, provides mobile tool crib support for the flight line and serves as transportation for air/flight crew personnel and maintenance crews. Failure to provide this vehicle can diminish the Air Force's capability to support customer's need for repositioning assets for reception of forces supporting Air Expeditionary Forces (AEF).</p> <p>Items requested in FY03 are identified on the P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 1,496 vehicles against an inventory objective of 4,541. Fiscal constraints limit the FY03 procurement to 297 units.</p> <p>Identification Code: A</p>								
<b>P-1 ITEM NO</b> 9		<b>PAGE NO:</b> 30					Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK MAINT/UTILITY/DELIVERY VAN						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
DELIVERY VAN GERMANY (BPAC 216A)	A			30	\$920	26	\$819	50	\$1,415	
DELIVERY VAN JAPAN (BPAC 216C)	A			10	\$230			20	\$378	
DELIVERY VAN ITALY (BPAC 216E)	A			15	\$480	13	\$419			
DELIVERY VAN TURKEY (BPAC 216F)	A			15	\$480					
DELIVERY VAN UNITED STATES (BPAC 2165)	A			455	\$15,778	225	\$7,379	227	\$8,682	
DELIVERY VAN KC-10 (BPAC 2169)	A					53	\$1,750			
<b>Totals:</b>				525	\$17,888	317	\$10,367	297	\$10,475	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 9				<b>PAGE NO:</b> 31			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TRUCK MAINT/UTILITY/DELIVERY VAN						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
DELIVERY VAN GERMANY (BPAC 216A)										
FY01	30	30,667	AFMC/WR-ALC	FCA/FFP	USAFE/KEHRY AUTOHOUSE KAISERSLAUGHTERN, GERMANY	JUL 01	JUL 01			
FY02	26	31,502	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWM)	MAR 02	AUG 02	Y		
FY03	50	28,292	AFMC/WR-ALC	FCA/FFP	USAFE (UNKNOWM)	FEB 03	AUG 03	Y		
DELIVERY VAN JAPAN (BPAC 216C)										
FY01	10	23,000	AFMC/WR-ALC	MIPR/FFP	NAVY / ISUZU MOTORS LIMITED, TOKYO JAPAN	SEP 01	NOV 01			
FY03	20	18,886	AFMC/WR-ALC	MIPR/FFP	NAVY (UNKNOWN)	MAY 03	AUG 03	Y		
DELIVERY VAN ITALY (BPAC 216E)										
FY01	15	31,975	AFMC/WR-ALC	FCA/FFP	USAFE/FIAT AUTO SPA AVIANO, ITALY	JUL 01	OCT 01			
FY02	13	32,254	AFMC/WR-ALC	FCA/FFP	USAFE(UNKNOWN)	MAR 02	AUG 02	Y		
DELIVERY VAN TURKEY (BPAC 216F)										
FY01	15	31,975	AFMC/WR-ALC	FCA/FFP	USAFE/DAYEKO-CO-TAAHUP VETIC LTD STI ISTANBUL, TURKEY	JUL 01	OCT 01			
DELIVERY VAN UNITED STATES (BPAC 2165)										
FY01	455	34,678	AFMC/WR-ALC	MIPR/OTH/FP W/OPT	GSA/CARTER CHEVROLET OKARCHE, OK	APR 01	SEP 01			
		<b>P-1 ITEM NO</b> 9		<b>PAGE NO:</b> 32		Page 1 of 2				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK MAINT/UTILITY/DELIVERY VAN						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY02	225	32,796	AFMC/WR-ALC	MIPR/OTH/FP W/OPT	GSA/CARTER CHEVROLET OKARCHE, OK	MAR 02	SEP 02	Y		
FY03	227	38,248	AFMC/WR-ALC	MIPR/OTH/FP W/OPT	GSA/CARTER CHEVROLET OKARCHE, OK	MAR 03	SEP 03	Y		
DELIVERY VAN KC-10 (BPAC 2169)										
FY02	53	33,018	AFMC/WR-ALC	MIPR/OTH/FFP	UNKNOWN	MAR 02	AUG 02	Y		
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 9				<b>PAGE NO:</b> 33				Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HIGH MOBILITY VEHICLE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,183	\$6,390	\$11,881	\$9,399	\$4,135	\$5,191	\$6,175
<p><b>Description:</b></p> <p>This program includes the procurement of High Mobility Multi-Purpose Wheeled Vehicles (HMMWV). These vehicles have the capability to operate under tactical conditions in austere adverse terrain locations. They support security forces/force protection activities, civil engineering (including Red Horse Squadrons), combat communication flights, and Air Force Special Operation Forces (SOF) airlift units. The M1097A2 model serves as the prime tactical vehicle for the US Army. Requirements to conduct combined joint operations with the Army makes this vehicle the logical choice for fulfilling Air Force requirements due to the commonality and compatibility of parts, and standardized maintenance and supply support in a joint force environment. These vehicles are used in locations worldwide and in high intensity hostile environments (for example, Bosnia and Kosovo). They are used by Combat Communications Flights, Air Support Operations Squadrons (ASOS) and other tactical direct mission support units throughout Pacific Air Force (PACAF), Air Combat Command (ACC), and United States Air Force Europe (USAFE) as well as other commands in the Air Force. These tactical vehicles are critical to our war fighting capability. Current shortfalls of these vehicles negatively impact Operations Plan execution and has the potential to result in force protection degradation. This vehicle plays a vital role for personnel during deployments. There is not a work-around or suitable substitute item available for this tactical vehicle.</p> <p>Items requested in FY03 are identified on the following P-5a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 995 vehicles against an inventory objective of 1751. Fiscal restraints limit FY03 procurement to 191 units</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 11			<b>PAGE NO:</b> 34			Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HIGH MOBILITY VEHICLE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
M1097A2 HMMWV BPAC (2261)	A			121	\$7,183	105	\$6,390	191	\$11,881
<b>Totals:</b>				121	\$7,183	105	\$6,390	191	\$11,881
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 11				<b>PAGE NO:</b> 35		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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)										
FY01	121	59,363	AFMC/WR-ALC	MIPR/C/M-5 (YR1)	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	JUN 01	FEB 02			
FY02	105	60,857	AFMC/WR-ALC	MIPR/C/M-5 (YR2)	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	FEB 02	FEB 03	Y		
FY03	191	62,204	AFMC/WR-ALC	MIPR/C/M-5 (YR3)	ARMY/TACOM AM GENERAL, SOUTH BEND, IN	FEB 03	FEB 04	Y		
REMARKS:										
		P-1 ITEM NO 11			PAGE NO: 36			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CAP VEHICLES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$763	\$785	\$792	\$810	\$829	\$845	\$863
<p><b>Description:</b></p> <p>This program includes vehicles to support Civil Air Patrol (CAP) operational and management activities. The CAP program includes the procurement of seven passenger vans, fifteen passenger vans, 4X4 SUVs, four door mid-size vehicles, and five passenger vans. Their primary purpose is to provide transportation for cadet and senior members attending meetings and functions of the AF auxiliary. Operational support applications include command and control for search and rescue, counterdrug, disaster relief, and training missions authorized as AF missions for their auxiliary.</p> <p>AF has validated CAP's fleet at 980 vehicles. This procurement of 33 vehicles is consistent with AF vehicle replacement policies. Failure to provide these vehicles will increase average vehicle fleet age well over CAP's ten-year average and will more than double the AF average fleet age. As age increases safety risks and maintenance costs also increase.</p>								
	<b>P-1 ITEM NO</b> 12		<b>PAGE NO:</b> 37		Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$35,554	\$33,315	\$39,616	\$51,327	\$176,502	\$142,571	\$112,272
<p><b>Description:</b></p> <p>This P-1 line includes various Cargo-Utility Vehicles and Equipment with procurement value of less than \$5,000,000 and are Identification Code A. These items are critical across the spectrum of functional users throughout the Air Force and provide multi-purpose capabilities. These vehicles also support mission needs for light to heavy cargo transport, as well as transportation for Air/Flight Crew Personnel. In addition, these vehicles support Flightline Operations (Aircraft Maintenance ) and Air Base Civil Engineers performing base and airfield maintenance. Failure to provide this family of vehicles can diminish the Air Force's capability to support customers' need for various flightline/runway operations. The 1,496 vehicles requested for FY03 include alternative fuel vehicles that are required under Executive Order 13149, 21 April 2000. Items requested in FY03 are identified on the following P-40A I/L and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>In FY02, the AF Vehicle Replacement Program received \$.235M as part of the Defense Emergency Relief Fund (DERF). This funding was used to procure two armored Sports Utility Vehicles (SUV) in support of operation NOBLE EAGLE.</p>								
	<b>P-1 ITEM NO</b> 13		<b>PAGE NO:</b> 38		Page 1 of 1			

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
TRUCK, PICKUP 3/4T 4X4 (BPAC 2992002)	2320008116869			59	\$1,282
TRUCK, COMPACT PICKUP 4X4 (BPAC 2992003)	2320010878223			8	\$158
TRUCK, COMPACT PICKUP (BPAC 2992006)	2320010096194			170	\$2,393
TRUCK, PICKUP 1/2T 4X2 (BPAC 2992009) PEC 35205	2320005401428			174	\$3,182
TRUCK, PICKUP 1/2T 4X2 (BPAC 2992010)	2320005401428			6	\$104
TRUCK, PICKUP 3/4T 4X4 (BPAC 2992011)	2320008116869			12	\$314
TRUCK, PICKUP 3/4T 4X4 (BPAC 2992012)	2320008116869			7	\$160
TRUCK, PICKUP 1/2T 4X2 UNITED STATES (BPAC 2992014)	2320005401428			22	\$459
TRUCK, COMPACT PICKUP JAPAN (BPAC 2992015)	2310010096194			52	\$515
TRUCK, COMPACT PICKUP UNITED STATES (BPAC 2992016)	2320010096194			20	\$346
TRUCK, COMPACT PICKUP UNITED STATES (BPAC 2992017)	2320010096194			30	\$442
TRUCK, COMPACT PICKUP UNITED STATES (BPAC 2992024)	2320010096194			31	\$429
SEMI-TRAILER, FB 45T AIR RIDE (BPAC 2993001)	2330010618609			3	\$162
SEMI-TRAILER, 20TON 38FT (BPAC 2993004)	2330013819477			18	\$566
SEMI-TRAILER, T-DECK 22 TON (BPAC 2993005)	2330001383011			3	\$66
SEMI-TRAILER VAN CARGO 12 TON (BPAC 2993006)	2330008655443			1	\$22
SEMI-TRAILER LOW BED 35 TON (BPAC 2993007)	2330010516648			4	\$186
TRAILER, LOW BED 50 TON (BPAC 2993008)	2330010585911			1	\$49
		<b>P-1 ITEM NO</b> 13	<b>PAGE NO:</b> 39		Page 1 of 4

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
SEMI-TRAILER 40 TON W/463L RLRS (BPAC 2993009)	2330010940007			1	\$40
SEMI-TRAILER 60 TON DROP DECK (BPAC 2993014)	2330012521245			1	\$51
TRUCK, VAN BAND 24KGVW (BPAC 2994002)	2320010397929			1	\$44
TRK CHS 6X4 45K GVW (BPAC 2995004)	2320001010405			2	\$172
TRACTOR, 5 TON (MTV) (BPAC 2996009)	2320013554332			1	\$149
CUCV UTILITY M1009 (BPAC 2996024)	2320011232665			5	\$173
CUCV CARGO M1008 (BPAC 2996025)	2320011232671			6	\$204
HMMWV, M1114 (BPAC 2996027)	2320014133739			1	\$161
TRUCK, TRACTOR XM1070 (BPAC 2996031)	2320013189902			1	\$253
TRUCK, CARGO (MTV) 5 TON (BPAC 2996034)	2320013543386			9	\$1,395
TRUCK, CARGO MTV, 2.5 TON (BPAC 2996035)	2320013543385			21	\$2,846
TRAILER, HIGH MOBILITY, LIGHT (BPAC 2996036)	2330013886662			56	\$674
TRUCK TRAC 44.5K GVW (BPAC 2999005)	2320002711432			24	\$1,987
TRUCK TRAC 55K GVW (BPAC 2999006)	2320010585724			2	\$146
TRUCK TRAC 39.5 GVW (BPAC 2999007)	2320013417627			9	\$677
TRUCK TRAC 74K GVW (BPAC 2999008)	2320012186119			2	\$237
TRUCK TRAC 6X4 64K GVW (BPAC 2999009)	2320003444397			24	\$2,094
TRUCK TRAC 6X4 52K GVW (BPAC 2999011)	2320013571367			1	\$76
TRUCK TRAC 44.5K GVW (BPAC 2999015)	2320002711432			15	\$1,145
	<b>P-1 ITEM NO</b> 13		<b>PAGE NO:</b> 40	Page 2 of 4	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
TRUCK TRAC 6X4 64K GVW (BPAC 2999019)	2320003444397			10	\$763
TRAILER, FLAT BED 6 TON (BPAC 299A003)	2330008775646			1	\$9
TRAILER, FLAT BED 3-8 TON (BPAC 299A010)	2330000140494			5	\$62
TRUCK, UTILITY 4K 4X4 (299B001)	2320009889120			59	\$1,717
TRUCK, UTILITY 4X2 (4000) (BPAC 299B003)	2320012518501			11	\$208
TRUCK, UTILITY 4000 GROSS VEHICLE WEIGHT 4X4 (BPAC 299B005)	2320013386502			27	\$636
TRUCK, UTILITY 4X2 ITEM 100B (BPAC 299B022)	2320014416914			10	\$336
TRUCK, UTILITY 4X4 ITEM 105B (BPAC 299B023)	2320014416916			25	\$793
TRUCK, UTILITY 4X4 ITEM 105B (BPAC 299B025) OSI	2320014416916			2	\$64
TRUCK, PICKUP, CREWCAB, 1/2T, 4X4 (BPAC 299B036)	2320014846748			17	\$450
MINOR REPLACEMENT (BPAC 299C002)	299C002			1	\$1,909
TRUCK, STAKE & PLATFORM 19,000 GVW (BPAC 299C004)	2320010648540			1	\$37
TRUCK, CARRYALL 8 PAX ITALY (BPAC 299C006)	2320008797662			11	\$175
TRUCK, PU,4X2, 6 PAX DUAL REAR WHEELED (BPAC 299C010)	2320010107351			6	\$149
TRUCK, CARGO, 2.5T, 4X4 (BPAC 299C011)	2320008017593			2	\$130
TRUCK, CARGO, 6 PAX, 2.5T 4X2 (BPAC 299C012)	2320008790680			1	\$50
TRUCK, CARGO, 2.5T, 4X2 (BPAC 299C014)	2320007023537			2	\$93
TRUCK, PANEL 4X2 UNITED STATES (BPAC 299C018)	2320010432754			14	\$233
	P-1 ITEM NO 13		PAGE NO: 41		Page 3 of 4

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (CARGO-UTILITY)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
TRUCK, PANEL 4X2 JAPAN (BPAC 299C021)	2320010432754			5	\$70
TRUCK, CARRYALL 4X4 9 PAX (BPAC 299C024)	2320009504238			10	\$353
TRUCK, STAKE & PLATFORM 1 TON 4X2 (BPAC 299C026)	2320008518481			84	\$1,896
TRUCK, STAKE & PLATFORM 10,000 GVW (BPAC 299C027)	2320012507367			53	\$1,406
TRUCK, STAKE & PLATFORM 10, GVW 4X4 (BPAC 299C028)	2320013022698			3	\$82
TRUCK, CARRYALL 8 PAX UNITED STATES (BPAC 299C029)	2320008797662			88	\$1,634
TRUCK, CARRYALL 15 PAX (BPAC 299C030)	2320010366569			54	\$1,130
TRUCK, CARRYALL COMPACT (BPAC 299C031)	2320011736113			41	\$841
TRUCK, CARRYALL LOWPRO (BPAC 299C032)	2320004501005			5	\$149
TRUCK, CARRYALL 8 PAX JAPAN (BPAC 299C033)	2320008797662			2	\$29
TRUCK, CARRYALL A5 PAX JAPAN (BPAC 299C036)	2320010366569			3	\$50
TRUCK, CARRYALL 8 PAX UNITED STATES (BPAC 299C037)	2320008797662			14	\$285
TRUCK, STAKE & PLATFORM 4X2 JAPAN (BPAC 299C048)	2320008518481			1	\$19
TRUCK, PANEL 4X2 UNITED STATES (BPAC 299C049)	2320010132754			9	\$179
TRUCK, STAKE & PLATFORM 10,000 GVW (BPAC 299C027)	2320012507367			2	\$46
TRUCK, STAKE & PLATFORM 4X2 GERMANY (BPAC 299C058)	2320008518481			11	\$274
<b>TOTALS:</b>					<b>\$39,616</b>
		<b>P-1 ITEM NO</b> 13			<b>PAGE NO:</b> 42
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMMWW, ARMORED				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$13,701	\$1,000	\$1,019	\$1,862	\$15,874	\$9,377	\$3,621
<p><b>Description:</b></p> <p>This program provides funding for armored High Mobility Multipurpose Wheeled Vehicles (HMMWW). These vehicles consist of the standard diesel powered HMMWW utility trucks with armor plating to provide ballistic protection for armament components, crew, and ammunition.</p> <p>The Air Force and the US Army jointly program these requirements to provide an armored vehicle which will satisfy both services' requirements. This vehicle satisfies Air Force Explosive Ordnance Disposal (EOD), Civil Engineering (CE), Air Base Damage Assessment Team, Base Recovery After Attack Team (BRAAT) and Security Forces (SF) requirements as well as being essential to the ongoing Force Protection/Anti-Terrorism (FA/AT) effort. EOD employs this vehicle as an unexploded (UXO) team work platform; CE uses it to support damage assessment and as an Armored Personnel Carrier (APC); and SF requires this vehicle for force protection, nuclear weapon security, and Air Base Defense operations. In overseas locations (OCONUS), the Armored HMMWW is a must-have asset in meeting SF force protection needs. The diverse environments within Southwest Asia (SWA) require a vehicle that has a 4X4 capability (this vehicle is 4X4 capable) and provides adequate protection from hostile fire in dangerous situations. In stateside (CONUS) locations, the vehicle is used primarily in a nuclear support role as directed by DoD Directive 5210.41-M, Nuclear Weapon Security Manual, which requires suitable security vehicles be used to enhance mobility and all security force vehicles meet the highest standards of reliability and maintainability. The directive further states that vehicles should be capable of cross-country travel over difficult terrain and be operable by security force members in operational gear and protective clothing.</p> <p>Items requested in FY03 are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 759 against an inventory objective of 884; fiscal constraints limit the requested FY03 procurement quantity to 14 units.</p> <p>IDENTIFICATION CODE: A</p>								
<b>P-1 ITEM NO</b> 14		<b>PAGE NO:</b> 43			Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMMWW, ARMORED					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HMMWW, ARMORED (M1025A2) (BPAC 3202)	A			80	\$5,701	14	\$1,000	14	\$1,019
HMMWW, UPARMORED (M1116) (BPAC 3201)	A			48	\$8,000				
<b>Totals:</b>				128	\$13,701	14	\$1,000	14	\$1,019
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 14				<b>PAGE NO:</b> 44		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: HMMWW, ARMORED						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
HMMWV, ARMORED (M1025A2) (BPAC 3202)										
FY01	80	71,263	AFMC/WR-ALC	MIPR/M-5 (YR1)	ARMY/TACOM, AM GENERAL, SOUTH BEND, IN	JUN 01	FEB 02			
FY02	14	71,429	AFMC/WR-ALC	MIPR/M-5 (YR1)	ARMY/TACOM, AM GENERAL, SOUTH BEND, IN	APR 02	MAR 03	Y		
FY03	14	72,786	AFMC/WR-ALC	MIPR/M-5 (YR3)	ARMY/TACOM, AM GENERAL, SOUTH BEND, IN	APR 03	MAR 04	Y		
HMMWV, UPARMORED (M1116) (BPAC 3201)										
FY01	48	166,664	AFMC/WR-ALC	MIPR/M-5 (YR1)	ARMY/TACOM, AM GENERAL, SOUTH BEND, IN	AUG 01	FEB 02			
REMARKS:										
		P-1 ITEM NO 14			PAGE NO: 45			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMMWV, UPARMORED				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$0	\$0	\$3,629	\$0	\$354	\$5,949	\$10,852
<p><b>Description:</b></p> <p>This program provides funding for UpArmored High Mobility Multipurpose Wheeled Vehicles (HMMWV). These vehicles consist of the standard diesel powered HMMWV utility trucks with armor plating to provide ballistic protection for armament components, crew, and ammunition. The UpArmored HMMWV provides additional protection from land mines and aerial bursts of munitions in addition to the protection offered by the standard Armored HMMWV.</p> <p>This vehicle with the similar Armored HMMWV satisfies Air Force Explosive Ordnance Disposal (EOD), Civil Engineering (CE), Air Base Damage Assessment Team, Base Recovery After Attack Team (BRAAT) and Security Forces (SF) requirements as well as being essential to the ongoing Force Protection/Anti-Terrorism (FA/AT) effort. EOD employs this vehicle as an unexploded (UXO) team work platform; CE uses it to support damage assessment and as an Armored Personnel Carrier (APC); and SF requires this vehicle for force protection, nuclear weapon security, and Air Base Defense operations.</p> <p>In overseas locations (OCONUS), the UpArmored HMMWV is a must-have asset in meeting force protection needs. The diverse environments within Southwest Asia (SWA) require a vehicle that has a 4X4 capability, provides adequate protection from hostile fire, and increases the survivability of personnel from land mine and ordinance explosion/fragmentation hazards. In stateside (CONUS) locations, the vehicle is used primarily in a nuclear support role as directed by DoD Directive 5210.41-M, Nuclear Weapon Security Manual, which requires suitable security vehicles be used to enhance mobility and all security force vehicles meet the highest standards of reliability and maintainability.</p> <p>Beginning in FY03, procurement quantities and amounts for the UpArmored HMMWV will be documented under new BPAC 3230. Prior to FY03, procurement information on the UpArmored HMMWV was documented with the Armored HMMWV.</p>								
	<b>P-1 ITEM NO</b> 15			<b>PAGE NO:</b> 46				Page 1 of 2

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> HMMWW, UPARMORED			
<b>Description (continued):</b>  Items requested in FY03 are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 21 against an inventory objective of 432.  IDENTIFICATION CODE: A					
	<b>P-1 ITEM NO</b> 15		<b>PAGE NO:</b> 47		Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMWWV, UPARMORED						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
HMMWV, UPARMORED (M1116), (BPAC 3231)	A							21	\$3,629	
<b>Totals:</b>								21	\$3,629	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 15				<b>PAGE NO:</b> 48			
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HMMWW, UPARMORED						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
HMMVV, UPARMORED (M1116), (BPAC 3231)										
FY03	21	172,809	AFMC/WR-ALC	MIPR/C/M-5 (YR3)	ARMY/TACOM, AM GENERAL	MAY 03	FEB 04	Y		
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 15					<b>PAGE NO:</b> 49		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRACTOR, A/C TOW, MB-4				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$0	\$0	\$6,143	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>The MB-4 Tow Tractor tows aircraft up to and including the C-130 in all of its configurations. This tractor is required daily to support various types of command operations. The primary users are the Aircraft Maintenance and Munitions Squadrons. Equipped with a diesel engine, four wheel drive and four wheel steering, the base can safely move equipment and aircraft in direct support of sorties generations, i.e. launching and recovery of aircraft. Additionally, with the air brake systems on these vehicles the Combat Aerospace Ground Equipment (AGE) Teams assigned to Munitions Squadrons (MUNS) are able to tow large weapons trailers (MHU-196 and MU-204) in direct support of loading, maintenance, and transporting munitions to and from storage locations. This is a critical operation for our heavy bombers (B-52, B1, and B-2). This vehicle is also used to move aircraft around the flightline as well as during emergency situations such as towing stalled or disabled aircraft from active runways and taxi-ways. There are no work a rounds because this vehicle type is not readily available for rent, lease, nor is there a nuclear certification available on the local economy. The current age and condition of the MB-4 Fleet is such that if we fail to procure these assets it will adversely affect our ability to meet mission requirements whether, it's generating aircraft for it's mission in a timely manner or moving munitions. Assets currently requested under the FY03 buy will replace critical assets that are replacement eligible.</p> <p>FY01 and FY02 requirements are funded on Items Less Than \$5M Special Purpose Category P-1 Line #18.</p> <p>Items requested in FY03 are identified on the P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. Total Air Force requirement is 257 against an inventory objective of 1009.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 50			
							Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRACTOR, A/C TOW, MB-4						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
TRAC TOW, MB-4 (BPAC 3322)	A							57	\$6,143	
<b>Totals:</b>								57	\$6,143	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 17				<b>PAGE NO:</b> 51			
							Page 1 of 1			

# UNCLASSIFIED

<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRACTOR, A/C TOW, MB-4						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
TRAC TOW, MB-4 (BPAC 3322)										
FY03	57	107,772	AFMC/WR-ALC	DO/IDIQ	NORTHWESTERN, EAU CLAIR, WI	DEC 02	JUL 03		MAR 02	
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 17			<b>PAGE NO:</b> 52			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRACTOR, TOW, FLIGHTLINE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$5,881	\$6,035	\$7,928	\$9,893	\$1,378	\$2,267	\$3,086
<p><b>Description:</b></p> <p>The Flight Line Tow Tractor (FLTT) is a diesel engine, two and four wheel drive tow tractor. The FLTT tows aircraft (i.e., F15, F16, small passenger carrying aircraft and helicopters) Aerospace Ground Equipment (AGE) and munitions. The FLTT is the prime mover for powered and non-powered AGE for aircraft launch, recovery, and maintenance actions. The FLTT is essential for day to day flightline operations and is absolutely vital to sortie production during contingencies. Major Commands, including the Pacific Air Force, Air Force Material Command, United States Air Force Europe, Air Combat Command, and Air Mobility Command operate this vehicle in direct mission support roles. Depending on the terrain and the mission requirements, various configurations may be procured (e.g. heavy winterization, four-wheel drive).</p> <p>Items requested in FY03 on the P-40a are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The Total Air Force FY03 procurement requirement is 1734 tractors against an inventory objective of 3114. Fiscal constraints limit the requested FY02 procurement quantity to 170.</p> <p>IDENTIFICATION CODE: A</p>								
	<b>P-1 ITEM NO</b> 18		<b>PAGE NO:</b> 53		Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRACTOR, TOW, FLIGHTLINE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TRAC TOW FLTT (BPAC 3332)	A			171	\$5,881	155	\$5,560	215	\$7,928
TRAC TOW FLTT (BPAC 3336)	A					15	\$475		
<b>Totals:</b>				171	\$5,881	170	\$6,035	215	\$7,928
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 18				<b>PAGE NO:</b> 54		Page 1 of 1	

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
TRAC TOW FLTT (BPAC 3332)										
FY01	171	34,392	AFMC/WR-ALC	C/FFP W/OPT	STINAR CORP, ST PAUL, MN	JAN 02	JUL 02			
FY02	155	35,871	AFMC/WR-ALC	OPT/FFP W/OPT	UNKNOWN	JUL 02	APR 03	Y		
FY03	215	36,874	AFMC/WR-ALC	OPT/FFP W/OPT	UNKNOWN	DEC 02	NOV 03	Y		
TRAC TOW FLTT (BPAC 3336)										
FY02	15	31,666	AFMC/WR-ALC	OPT/FFP W/OPT	UNKNOWN	JUL 02	MAR 03	Y		
<b>REMARKS:</b>										
			<b>P-1 ITEM NO</b> 18				<b>PAGE NO:</b> 55	Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, HYDRANT FUEL				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$0	\$5,895	\$7,941	\$4,195	\$2,977	\$2,124	\$2,170
<p><b>Description:</b></p> <p>The Hydrant Fuel Truck is a truck-mounted piece of equipment designed to control fuel flow from an in-ground installed, pressurized fuel system into an aircraft or vice versa. Flowing up to 750 gallons of fuel per minute, it permits quicker loading (compared to above-ground R-11 Refueler Truck) of fuel onto large fuel capacity aircraft such as the C-5, C-17, C-141, B1, B-52, and C-130, supporting MAJCOMs worldwide. Without Hydrant Fuel Trucks, the pressurized fuel systems cannot be used, requiring the use of refueling tank vehicles. These vehicles would increase fuel loads and servicing time (compared to Hydrant Fuel Trucks) to load one aircraft with fuel, which could impact/delay the mission. FY01 funding is included in P-1 line Item #20, Items less Than \$5 Million (Special Purpose).</p> <p>Items requested in FY03 on the P-5a are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 146 against an inventory objective of 274. Funding constraints limit FY03 procurement to 56 units.</p> <p>Identification Code: A</p>								
	<b>P-1 ITEM NO</b> 19		<b>PAGE NO:</b> 56				Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT					<b>P-1 NOMENCLATURE:</b> TRUCK, HYDRANT FUEL					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
TRK HYDRANT FUEL 3581	A					39	\$5,895	56	\$7,941	
<b>Totals:</b>						39	\$5,895	56	\$7,941	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 19					<b>PAGE NO:</b> 57		Page 1 of 1

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, HYDRANT FUEL						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
TRK HYDRANT FUEL 3581										
FY02	39	151,154	AFMC/WR-ALC	OPT/FFP	WR-ALC (KOVATCH, NESQUEHONING PA)	FEB 02	MAY 02	Y		
FY03	56	141,804	AFMC/WR-ALC	C/FFP W/OPT	WR-ALC (UNKNOWN)	MAR 03	NOV 03	Y		
<b>REMARKS:</b>										
<b>P-1 ITEM NO</b> 19		<b>PAGE NO:</b> 58			Page 1 of 1					

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$15,907	\$19,818	\$24,755	\$73,456	\$59,513	\$54,296	\$52,450
<p><b>Description:</b></p> <p>This P-1 line includes special purpose vehicles with a procurement value of less than \$5,000,000. These vehicles include Flightline, Maintenance and Facility Vehicles essential to base and flying operations. Items requested in FY03 are identified on the following P-40A I/L and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>Identification Code: A</p>								
<b>P-1 ITEM NO</b> 20		<b>PAGE NO:</b> 59					Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
TRUCK, TANK A24 (BPAC 3993001)	2320000898979			3	\$169
TRUCK, TANK 1200 GAL 4X2 (BPAC 3993008)	2320001776777			12	\$889
TRUCK, TANK 1200 GAL 4X4 (BPAC 3993010)	2320001776778			9	\$791
TRUCK, TANK WATER (BPAC 3993015)	2320014652737			8	\$865
SEMI-TRAILER, WATER DIST 5500G (BPAC 3994010)	3825005703417			1	\$88
SEMI-TRAILER, COMP GAS 38 CYL (BPAC 3994018)	2330009955613			1	\$214
TRAILER, WATER M-149 400 GAL (BPAC 3996003)	2330000606511			2	\$25
TRAILER, CHASSIS M-103 (BPAC 3996004)	2330001418052			2	\$8
DOLLY SET, 1022A1 (BPAC 3996006)	2330013789997			1	\$47
TRUCK, DUMP (M1090) (BPAC 3996025)	2320013544529			3	\$607
TRAILER, ISO CONTAINER M872 (BPAC 3996053)	2330011421385			3	\$111
REFRIGERATOR VAN 19000 GVW (BPAC 3997001)	2320007704467			5	\$244
SHOP VAN 4X2 19 GROSS VEHICLE WEIGHT (BPAC 3997004)	2320008188015			2	\$77
SHOP VAN 4X4 (BPAC 3997005)	2320008562480			6	\$332
TRUCK, MISSILE VAN (BPAC 3997006) PEC 11213	2320013755833			3	\$282
TRUCK, SERVICING HI-LIFT 3T FOR C5A (BPAC 3999001)	2320013056339			3	\$499
TRUCK, HI-LIFT 9T STAKE & PLATFORM (BPAC 3999002)	2320005403991			2	\$307
TRUCK, TELEPHONE MAINTENANCE 6 PAX (BPAC 399A001) PEC 11213 (4EA)	2320004512184			7	\$279
	<b>P-1 ITEM NO</b> 20		<b>PAGE NO:</b> 60		Page 1 of 3

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
TRUCK, MAINTENANCE 3/4 T 4X4 (BPAC 399A006)	2320005411714			39	\$1,183
TRUCK, HI REACH 45 FT (BPAC 399A007)	2320009955610YW			8	\$895
TRUCK, HI REACH 65 FT (BPAC 399A008)	2320009897163YW			6	\$792
TRUCK, HI REACH 100 FT (BPAC 399A009)	2320004869951YW			2	\$210
TRUCK, TELEPHONE MAINTENANCE STANDARD UTIL (BPAC 399A010)	2320008019193			57	\$1,473
TRUCK, MOUNTED DIGGER DERRICK 6X4 (BPAC 399A012)	2320004558464			3	\$564
TRUCK, TELEPHONE MAINTENANCE 1 TON (BPAC 399A021)	2320013437375			20	\$809
TRUCK, MAINTENANCE DIGGER DERRICK 6X4 (BPAC 399A026)	2320013977528			5	\$832
SEMI-TRAILER, VAN REFRIG 7.5T (BPAC 399B011)	2330008815306			1	\$47
(BPAC 399B013)	2320NSL29			1	\$208
(BPAC 399B016)	2320RECRUIT			1	\$3,115
TRAILER, CABLE REEL 6-TON (BPAC 399B020)	2330005403732			2	\$62
AF PLANT 42 VEHICLES (BPAC 399B035)	399B035			1	\$531
SEMI-TRAILER, TANK HAULER 60 TONS LOW BED (BPAC 399B036)	2330000897265			1	\$125
TRACTOR, IW40 (BPAC 399C001)	2420001900054			2	\$34
TRACTOR, TOW MB-2 (BPAC 399C002)	1740001438464YW			24	\$2,020
TRACTOR, U30 AIRCRAFT TOWING AS32U (BPAC 399C003)	1740013679485YW			10	\$1,970
TRACTOR, FLIGHT TOW, 4X4 (BPAC 399C017)	1740014524117YW			44	\$1,181
CARRIER OSNOW, 6 PAX (BPAC 399D002)	2350010402945			1	\$87
	<b>P-1 ITEM NO</b> 20		<b>PAGE NO:</b> 61		Page 2 of 3

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>	<b>DATE: FEBRUARY 2002</b>
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (SPECIAL PURPOSE)
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PROCUREMENT ITEMS	NSN	FY2003			
		QTY.	COST	QTY.	COST
CARRIER OSNOW, 10 PAX (BPAC 399D003)	2350008931225			3	\$386
WRECKER, TILT BED (BPAC 399E001)	2320013804755			3	\$285
TRUCK, WRECKER 4X2 32GVW HYD TYPE 1 (BPAC 399E004)	2320013033010			14	\$1,678
TRUCK, WRECKER 6X4 44.5GVW (BPAC 399E005)	2320011306353			1	\$158
TRUCK, WRECKER 21,000 GVW (BPAC 399E006)	2320007264347			1	\$109
TRUCK, RETRIEVER, 4X2 (BPAC 3993007)	2320014540723			2	\$167
<b>TOTALS:</b>					\$24,755

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (FIRE FIGHTING)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$6,906	\$5,029	\$10,023	\$10,010	\$25,344	\$25,444	\$25,554
<p><b>Description:</b></p> <p>This P-1 line includes fire fighting vehicles with a procurement value of less than \$5,000,000 and are Code A items. These vehicles provide critical capability in support of Aircraft Crash/Recovery, Personnel Rescue, and Hazardous Material mishaps. Items requested in FY03 are identified on the following P-40A I/L and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>In FY02, the AF Vehicle Replacement Program received \$14.8M as part of the Defense Emergency Relief Fund (DERF). This funding was used to procure 50 Fire Fighting vehicles in support of operation NOBLE EAGLE.</p>								
<b>P-1 ITEM NO</b> 22		<b>PAGE NO:</b> 63					Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (FIRE FIGHTING)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
P-19 CRASH TRUCK (BPAC 499C)	4210004069615			6	\$2,522
P-26 WATER TRUCK (BPAC 499D)	4210013564907			8	\$1,910
TRUCK, FIRE FIGHTING MEDIUM RESCUE (BPAC 499J)	4210014525121			23	\$4,091
P-23 CRASH TRUCK (BPAC 499I)	4210007026801			2	\$1,040
TRUCK FIRE HI-REACH P-21 (BPAC 4993)	4210010570696			1	\$460
<b>TOTALS:</b>					\$10,023
	P-1 ITEM NO 22		PAGE NO: 64		Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, F/L 10,000 LB				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$5,459	\$6,914	\$14,572	\$3,137	\$5,184	\$10,231	\$14,721
<p><b>Description:</b></p> <p>This family of vehicles consists of commercial 10,000 pound forklifts with diesel engines and pneumatic tires. These vehicles are air transportable and nuclear certified. These forklifts constitute the basic 463L air cargo system support vehicles to handle the AF standard 108" X 88" pallets which lock in the flooring of all AF cargo aircraft. They are compatible with and support all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet (CRAF) aircraft. The standard configuration is the most widely used 463L asset in the fleet and is employed at every base with an air cargo mission. The all-terrain version is utilized in close combat support roles, at bare-base environments and provides support for the Rapid Deployment Force (RDF) and Central Air Force (CENTAF) Areas of Responsibility (AORs). The Air Mobility Command (AMC) and other commands must replace these assets to assure continued support of the airlift mission for all services.</p> <p>Over 50% of the current 10,000 LB forklift fleet is replacement eligible. Lack of these critical vehicles would cause major delays in loading outbound aircraft, particularly intra-theater C-130 re-supply missions. Base operations such as aircraft loading operations, cargo build-up and pre-positioning would be drastically affected by lack of 463L all-terrain forklifts. During a contingency, deploying units would not be able to meet taskings. At many forward operating locations there is no alternative vehicle to accomplish cargo loading. Loading ramps and cargo storage areas are unpaved and the AF has no aircraft loaders that operate in sand or off-road conditions. These all-terrain forklifts are the only forklifts capable of recovering air dropped munitions, supplies and equipment. Items requested in FY03 are identified on the P-40a and are representative of the items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The total Air Force FY03 procurement requirement is 1,240 units against an inventory objective of 2,367.</p> <p>Identification Code: A</p>								
	<b>P-1 ITEM NO</b> 23		<b>PAGE NO:</b> 65			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TRUCK, F/L 10,000 LB						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
TRUCK, FORKLIFT 10K ADVERSE TERRAIN (BPAC 5031)	A			38	\$3569	49	\$4,631	73	\$9,102	
TRUCK, FORKLIFT 10K STD (BPAC 5032)	A			32	\$1,890	17	\$1,008	84	\$5,470	
TRUCK, FORKLIFT 10K ADVERSE TERRAIN (BPAC 5038)	A					10	\$1,275			
<b>Totals:</b>				70	\$5,459	76	\$6,914	157	\$14,572	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 23				<b>PAGE NO:</b> 66			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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 ADVERSE TERRAIN (BPAC 5031)										
FY01	38	93,927	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (UNKNOWN)	MAR 02	AUG 02	Y		
FY02	49	94,510	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (UNKNOWN)	MAR 02	OCT 02	Y		
FY03	73	124,683	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (UNKNOWN)	FEB 03	OCT 03	Y		
TRUCK, FORKLIFT 10K STD (BPAC 5032)										
FY01	32	59,065	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (HYSTER, DANVILLE, IL)	NOV 01	MAY 02			
FY02	17	59,286	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (HYSTER, DANVILLE, IL)	FEB 02	OCT 02	Y		
FY03	84	65,115	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (HYSTER, DANVILLE, IL)	FEB 03	OCT 03	Y		
TRUCK, FORKLIFT 10K ADVERSE TERRAIN (BPAC 5038)										
FY02	10	127,500	AFMC/WR-ALC	MIPR/IDIQ	DLA/DSCP (UNKNOWN)	MAR 02	OCT 02	Y		
REMARKS:										
		P-1 ITEM NO 23			PAGE NO: 67			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TUNNER LOADER				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		47	44	38	0	0	0	0
<b>COST</b> (in Thousands)		\$96,056	\$90,132	\$84,329	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>The Tunner Aircraft Loader replaces the current 463L Material Handling Equipment (MHE) 40K Aircraft Loaders, Lower Lobe Aircraft Loaders, and Wide Body Elevator Loaders (WBEL). The Tunner is becoming the most critical asset of the strategic airlift MHE fleet by virtue of its capacity and rapid on/off load capability for strategic airlift including Civil Reserve Air Fleet (CRAF) aircraft. The Tunner expeditiously handles all configurations of air cargo. Manufactured by Systems and Electronics, Inc., St. Louis, Mo., it accommodates six pallets and carries a maximum of 30 tons to a height of 18.5 feet. It interfaces with all military and CRAF cargo aircraft and meets nuclear material handling safety criteria and certification. The Tunner is drive-on/drive-off and air transportable on C-141, C-5, and C-17 aircraft. It has reduced B-747 aircraft load times by 50 percent, reduced Wide Body Elevator deployment by nearly 50 percent and achieved a 100 percent mission effectiveness rate during Operation DESERT FOX. In addition, 27 Tunners successfully supported Operations ALLIED FORCE and SHINING HOPE. This budget request sustains efficient production. Programmed funding provides the total Tunner inventory objective of 318.</p> <p>Due to an administrative error, a reduction was applied to the equipment line instead of the spares line. A below threshold reprogramming of \$6.337M will be accomplished in execution to permit both the acquisition of 38 loaders and required support for the fleet.</p> <p>Identification Code: A</p>								
<b>P-1 ITEM NO</b> 24		<b>PAGE NO:</b> 68					Page 1 of 1	

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)						DATE: FEBRUARY 2002							
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT						P-1 NOMENCLATURE: TUNNER LOADER							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
60K A/C LOADER (BPAC 5121)	A				47	1,515,794	71,242	44	1,536,629	67,612	38	1,763,143	66,999
1. PROD SUPPORT (BPAC 5122)							{3,282}			{4,271}			{7,334}
A. ECO							669			1,521			4,334
B. SPO OPERATIONS/SUPT							2,613			2,750			3,000
2. DATA [BPAC 5123]										{1,683}			
A. TECHNICAL DATA PACKAGE (TDP)										1,683			
3. FLD SUPPLY SUPT (BPAC 5124)							{55}			{480}			
A. SPECIAL TOOLS							55						
B. MRSP										480			
4. TUNNER RELIABILITY SUPPORT PLAN (BPAC 5125)							21,477			16086			
													{9,996}
5. TUNNER INTERIM CONTRACT SUPPORT (ICS) [BPAC 5126]													9,996
		<b>P-1 ITEM NO</b> 24				<b>PAGE NO:</b> 69						Page 1 of 2	

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>										<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT					<b>P-1 NOMENCLATURE:</b> TUNNER LOADER								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
					47		96,056	44		90,132	38		84,329
<b>REMARKS:</b> Due to an administrative error, a reduction was applied to the equipment line instead of the spares line. A below threshold reprogramming of \$6.337M will be accomplished in execution to permit both the acquisition of 38 loaders and required support for the fleet.													
		<b>P-1 ITEM NO</b> 24				<b>PAGE NO:</b> 70					Page 2 of 2		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: TUNNER 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	
60K A/C LOADER (BPAC 5121)										
FY01	43	1515794	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONICS INC. ST. LOUIS, MO	JAN 01	APR 02			
FY01	4	1515794	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONICS INC. ST. LOUIS, MO	MAR 01	AUG 02			
FY02	44	1536629	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONIC INC. ST. LOUIS, MO	JAN 02	APR 03			
FY03	38	1763143	AFMC/WR-ALC	OPT/FFP	SYSTEMS & ELECTRONICS INC. ST. LOUIS, MO	JAN 03	APR 04	Y		
<b>REMARKS:</b> Due to an administrative error, a reduction was applied to the equipment line instead of the spares line. A below threshold reprogramming of \$6.337M will be accomplished in execution to permit both the acquisition of 38 loaders and required support for the fleet.										
		<b>P-1 ITEM NO</b> 24				<b>PAGE NO:</b> 71				Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> HALVORSEN LOADER				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>		42	101	86	30	0	0	0
<b>COST</b> (in Thousands)		\$23,922	\$53,090	\$49,554	\$19,928	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. The Halvorsen Loader (previously, Next Generation Small Loader (NGSL) will replace the oldest 25K loaders and remaining Wide Body Elevator Loader (WBEL) fleet. Unlike the Tunner (60K Aircraft Loader), the Halvorsen (NGSL) will be C-130 transportable, further enhancing the Air Force's ability to support rapid deployment to austere operating locations in accordance with Expeditionary Aerospace Force (EAF) doctrine. The Halvorsen, in conjunction with the Tunner, will be an integral part of the airlift system during peacetime logistics missions and assume minimum ground times for increased capability during wartime and contingency surges.</p> <p>2. The Halvorsen Loader handles all configurations of air cargo, including 463L pallets, commercial pallets, Army Type V airdrop platforms, container delivery systems loads, international standard organization containers, and rolling stock. The Halvorsen Loader accommodates three pallets, loads and off-loads a maximum of 25,000 pounds to a height of at least 18.5 feet (to accommodate 747 aircraft), and has a lowering capacity to 39 inches to accommodate C-130 aircraft. It will interface with current and planned military cargo aircraft, current civilian model aircraft utilized by commercial carriers, and the Civil Reserve Air Fleet.</p>								
	<b>P-1 ITEM NO</b> 25		<b>PAGE NO:</b> 72		Page 1 of 1			

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 2002				
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT					P-1 NOMENCLATURE: HALVORSEN LOADER									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
HALVORSEN LOADER (BPAC 5151)	A				42	428,721	18,006	101	411,599	41,571	86	414,357	35,635	
PRODUCT SUPPORT (BPAC 5152)							5,253			8,348			11,382	
DATA (BPAC 5153)							0			1,275			882	
SUPPLY SUPPORT (BPAC 5154)							663			1,896			1,655	
<b>TOTALS:</b>					42		23,922	101		53,090	86		49,554	
<b>REMARKS:</b>														
		<b>P-1 ITEM NO</b> 25				<b>PAGE NO:</b> 73				Page 1 of 1				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT				P-1 NOMENCLATURE: HALVORSEN LOADER						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
HALVORSEN LOADER (BPAC 5151)										
FY01 *	21	435,870	AFMC/ASC	OPT/FFP	FMC - ORLANDO, FLORIDA	OCT 00	AUG 01			
FY01 *	21	421,558	AFMC/ASC	OPT/FFP	FMC - ORLANDO, FLORIDA	OCT 01	MAR 02			
FY02	101	411,599	AFMC/ASC	OPT/FFP	FMC - ORLANDO, FLORIDA	NOV 01	JUN 02			
FY03	86	414,357	AFMC/ASC	OPT/FFP	FMC - ORLANDO, FLORIDA	OCT 02	MAY 03	Y		
<b>REMARKS:</b> * The FY01 contract includes Low Rate Initial Production (LRIP) buy of 21 units. A second buy of 21 units was exercised (Oct 01) following the successful completion of Operational Test, as well as Reliability and Maintainability Testing.										
P-1 ITEM NO		PAGE NO:		Page 1 of 1						
25		74								

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (MATERIALS HANDL EQUIP)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$4,642	\$4,106	\$10,922	\$4,846	\$6,208	\$19,116	\$29,850
<p><b>Description:</b></p> <p>This program includes various material handling vehicles with a procurement value of less than \$5,000,000. These vehicles consist of Lifting Trucks, Sequencing Trucks, and other warehouse equipment critical to depot and base supply operations. Items requested in FY03 are identified on the P-40A I/L and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>Identification Code: A</p>								
	<b>P-1 ITEM NO</b> 26		<b>PAGE NO:</b> 75		Page 1 of 1			

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (MATERIALS HANDL EQUIP)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
FORKLIFT, 13K ALL TERRAIN (BPAC 5991003)	3930011260457CT			2	\$270
FORKLIFT, 15K DED (BPAC 5991004)	3930010113650			18	\$1136
FORKLIFT, ELECTRIC 4K STANDARD 144 (BPAC 5991005)	3930000539175			12	\$306
FORKLIFT, ELECTRIC 2K STANDARD (BPAC 5991006)	3930006782580			8	\$184
FORKLIFT, NARROW AISLE ELECTRIC (BPAC 5991010)	3930011028906			8	\$250
FORKLIFT, 2500LB ELECTRIC PT (BPAC 3991012)	3930011040164			8	\$204
FORKLIFT, ELECTRIC 6K STANDARD (BPAC 5991013)	3930010471157			10	\$290
TRUCK, FORKLIFT NARROW AISLE 6K (BPAC 5991024)	3930014214083			11	\$1243
FORKLIFT, 25K (BPAC 5991025)	3930013904562			3	\$430
FORKLIFT, 6K DED (BPAC 5991026)	3930010525219			83	\$2,738
FORKLIFT, 4K DED (BPAC 5991027)	3930010130338			50	\$1297
FORKLIFT, 5K ALL TERRAIN 23.5FT RT BOOM (BPAC 5991033)	3930012104756			3	\$261
FORKLIFT, 5K COMMERCIAL (BPAC 5991035)	3930014330885			15	\$339
FORKLIFT, 6K COMMERCIAL (BPAC 5991036)	3930014330887			11	\$305
TRUCK, FORKLIFT 15K (BPAC 5991037)	3930014411597			6	\$359
FORKLIFT, 10K STANDARD (BPAC 5991043)	3930008566897CT			1	\$61
CRANE, WAREHOUSE GAS 10000LB (BPAC 5992005)	3950005555021			2	\$174
CRANE, WAREHOUSE ELECTRIC (BPAC 5992012)	3950005555022			2	\$102
		<b>P-1 ITEM NO</b> 26	<b>PAGE NO:</b> 76		Page 1 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (MATERIALS HANDL EQUIP)
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PROCUREMENT ITEMS	NSN	FY2003			
		QTY.	COST	QTY.	COST
TRACTOR, WAREHOUSE 4K (BPAC 5994007)	3930010070115			38	\$973
<b>TOTALS:</b>					\$10,922

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,150	\$12,484	\$15,466	\$8,107	\$11,888	\$14,762	\$18,558
<p><b>Description:</b></p> <p>This program includes the procurement of a vehicle group consisting of commercial sweepers and snow removal vehicles that are used on all airfield surfaces to help prevent 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 maintain airfields, roads, and grounds. Since fighter aircraft cannot land or take off with ice on the runway, snow removal vehicles provide critical mission support to airfield operations. Vacuum sweepers provide equally important support at all air bases due to the high cost of FOD and the potential for loss in FOD-related engine accidents. These assets are critical to the Air Force mission. They are the primary players in keeping runways safe and usable year round, especially in winter when snow and ice buildup can close down a runway.</p> <p>Failure to fund this request will severely jeopardize our users' ability to carry out any mission which requires the use of aircraft as well as compromise the safety of pilots using a runway which may be contaminated with FOD.</p> <p>Items requested in FY03 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The FY03 procurement requirement is 839 units against an inventory objective of 1,536. Fiscal constraints limit the FY03 procurement quantity to 76.</p> <p>Identification Code: A</p>								
		<b>P-1 ITEM NO</b> 28			<b>PAGE NO:</b> 78			
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
SNOW SWEEPER TRUCK MOUNTED (BPAC 621B)	A					15	\$2,369			
SWEEPER, ROT (BPAC 621E)	A			1	\$93					
45K REVERSIBLE PLOW (BPAC 621G)	A			12	\$2,405			25	\$5,274	
SNOW BROOM AND BLOWER (621H)	A			7	\$2,245			20	\$6,628	
CLEANER, VAC MULTIPURPOSE (BPAC 6211)	A			16	\$1,467	44	\$3,644	12	\$1,092	
SNOW REMOVAL UNIT 3K TON PER HOUR (BPAC 6214)	A					3	\$488	1	\$165	
RAPID RUNWAY REPAIR DIRT SWEEPER (BPAC 6215)	A			2	\$112	12	\$637	1	\$53	
DUMP W/SNOW PLOW (BPAC 6218)	A			4	\$475	4	\$482	15	\$1,916	
54K PLOW (BPAC 6219)	A			2	\$353	24	\$4,864	1	\$208	
TRACKED SNOW REMOVAL UNIT (BPAC 621D)	A							1	\$130	
<b>Totals:</b>				44	\$7,150	102	\$12,484	76	\$15,466	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 28				<b>PAGE NO:</b> 79			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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	
SNOW SWEEPER TRUCK MOUNTED (BPAC 621B)										
FY02	15	157,960	AFMC/WR-ALC	MIPR/IDIQ	GSA/UNKNOWN	MAR 02	AUG 02	Y		
SWEEPER, ROT (BPAC 621E)										
FY01	1	92,686	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/TENNANT CORP MINNEAPOLIS, MN	MAY 01	SEP 01			
45K REVERSIBLE PLOW (BPAC 621G)										
FY01	12	200,416	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/OSKOSH OSKOSH, WI	APR 01	JUN 01			
FY03	25	210,940	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/OSKOSH OSKOSH, WI	MAR 03	MAY 03	Y		
SNOW BROOM AND BLOWER (621H)										
FY01	7	320,714	AFMC/WR-ALC	MIPR/FPIS	GSA/OSKOSH OSKOSH, WI	JUN 01	NOV 01			
FY03	20	331,422	AFMC/WR-ALC	MIPR/FPIS	GSA/OSKOSH OSKOSH, WI	MAR 03	AUG 03	Y		
CLEANER, VAC MULTIPURPOSE (BPAC 6211)										
FY01 (4)	16	91,687	AFMC/WR-ALC	MIPR/OPT/IDIQ	DLA/TYMCO WACO, TX	OCT 01	NOV 01			
FY02	44	82,829	AFMC/WR-ALC	MIPR/OPT/IDIQ	DLA/UNKNOWN	MAR 02	SEP 02	Y		
FY03	12	91,031	AFMC/WR-ALC	MIPR/OPT/IDIQ	DLA/UNKNOWN	MAR 03	SEP 03	Y		
		<b>P-1 ITEM NO</b> 28				<b>PAGE NO:</b> 80				Page 1 of 3

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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	
SNOW REMOVAL UNIT 3K TON PER HOUR (BPAC 6214)										
FY02	3	162,688	AFMC/WR-ALC	MIPR/SS/IDIQ	GSA/UNKNOWN	MAR 02	SEP 02	Y		
FY03	1	165,459	AFMC/WR-ALC	MIPR/SS/IDIQ	GSA/UNKNOWN	MAR 03	SEP 03	Y		
RAPID RUNWAY REPAIR DIRT SWEEPER (BPAC 6215)										
FY01 (5)	2	56,080	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/SMITH EQUIP, LAKELAND FL	NOV 01	FEB 02			
FY02	12	53,058	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/UNKNOWN	MAR 02	JUN 02	Y		
FY03	1	53,164	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/UNKNOWN	MAR 03	JUN 03	Y		
DUMP W/SNOW PLOW (BPAC 6218)										
FY01	4	118,750	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/FREIGHTLINER PORTLAND, OR	AUG 01	NOV 01			
FY02	4	120,500	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/UNKNOWN	MAR 02	AUG 02	Y		
FY03	15	127,734	AFMC/WR-ALC	MIPR/C/IDIQ	GSA/UNKNOWN	MAR 03	AUG 03	Y		
54K PLOW (BPAC 6219)										
FY01	2	176,663	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/OSKOSH OSKOSH,WI	MAY 01	NOV 01			
FY02	24	202,648	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/UNKNOWN	MAR 02	SEP 02	Y		
FY03	1	207,736	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/UNKNOWN	MAR 03	SEP 03	Y		
		<b>P-1 ITEM NO</b> 28				<b>PAGE NO:</b> 81		Page 2 of 3		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT	<b>P-1 NOMENCLATURE:</b> RUNWAY SNOW REMOVAL AND CLEANING 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
TRACKED SNOW REMOVAL UNIT (BPAC 621D)									
FY03	1	129,571	AFMC/WR-ALC	MIPR/C/IDIQ	DLA/UNKNOWN	MAR 03	SEP 03	Y	

**REMARKS:**

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,131	\$3,360	\$5,000	\$347	\$349	\$625	\$1,276
<p><b>Description:</b></p> <p>This program includes permanent modifications that consist of configuration changes to in-service systems and equipment. These modifications correct deficiencies, (material, design, etc.) add or delete capability. Safety modifications correct deficiencies which would potentially produce hazards to personnel, systems or equipment. This budget line encompasses both new and on-going modification efforts for vehicular equipment. The funds budgeted in FY03 are for "P-23 Hub Retrofit".</p> <p>The P-23 fire truck modification is required as a result of critical failures in the hub assemblies due to cracks caused by metal fatigue. The modification consists of a redesigned, improved hub assembly and retrofit of the P-23 fleet, 250 trucks. One contract is presently being awarded for the redesign, testing, and manufacturing for the retrofit of the number 3 axle. Field level maintenance personnel will remove the old design and replace with the redesigned hub. Total estimated modification cost is \$8M.</p> <p>Items requested in FY03 are identified on the P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MISC LOW COST MODIFICATIONS	A				\$1,131		\$360		\$0
P-23 CRASH TRUCK MODIFICATION (BPAC 697P)	A						\$3,000		\$5,000
<b>Totals:</b>					\$1,131		\$3,360		\$5,000
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 29				<b>PAGE NO:</b> 84		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$15,554	\$11,943	\$24,369	\$18,570	\$34,074	\$68,175	\$98,656
<p><b>Description:</b></p> <p>This program includes various Base Maintenance Vehicles with a procurement value of less than \$5,000,000 and are Identification 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 materials, and repair and construct base physical plant requirements.</p> <p>Items requested in FY03 are identified on the following P40-A-IL and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/VEHICULAR EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
PAVING MACHINE RUBBER TIERED (BPAC 6992022)	3895010575288			3	\$429
SMALL UNIT SUPPORT VEHICLE (SUSV) (BPAC 6994002)	2350011329099			1	\$228
SCOOP LOADER 2.5 CUBIC YARD PT (BPAC 6995002)	3805002601967			12	\$1,763
SCOOP LOADER W/BACKHOE (BPAC 6995003)	3805001482169			25	\$2,483
SCOOP LOADER 2.5 CUBIC YARD FT (BPAC 6995005)	3805007289718			2	\$411
SCOOP LOADER 1.5 CUBIC YARD W/QUICK COUPLER (BPAC 6995007)	3805010748111			8	\$770
SCOOP LOADER 4 CUBIC YARD PNEUMATIC TIERED (BPAC 6995008)	3805010751816			7	\$1,515
ROLLER MOTORIZED PNEUMATIC TIERED SELF- PROPELLED 15T (BPAC 6997002)	3895000785898			1	\$67
ROLLER ROAD MOTORIZED TANDEM (BPAC 6997005)	3895002436797			1	\$28
ROLLER VIBRATING TYPE II (BPAC 6997006)	3895010715625			4	\$407
CRANE, 45 TON (BPAC 6998009)	3810002729031			1	\$400
CRANE, 7.5 TON (BPAC 6998010)	3810010673991			13	\$2,567
CRANE, 15 TON (BPAC 6998011)	3810003294154			3	\$733
CRANE, 8.5 TON (BPAC 6998014)	3810008279352			2	\$569
EXCAVATOR TRUCK MOUNTED (BPAC 6999001)	3805006187337			2	\$374
EXCAVATOR CRAWLER (BPAC 6999002)	3805010583562			2	\$316
EXCAVATOR DIESEL ENGINE DRIVEN PT (BPAC 3999003)	3805011067176			1	\$222
TRENCHER SELF-PROPELLED W/TRAILER (BPAC 699B002)	3805010329974			1	\$81
		<b>P-1 ITEM NO</b> 30	<b>PAGE NO:</b> 86		Page 1 of 3

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE MAINTENANCE SPT)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
DIGGER STRAINER TOWED (BPAC 699C002)	3805002027377			1	\$30
TRAILER DITCHING MACHINE (BPAC 699C015)	2330010794053			1	\$11
TRUCK, WASTE WATER 2000 (BPAC 699C037)	2320005802819			4	\$568
TRUCK, PIPE & SEWER CLEAN (BPAC 699C039)	2320001960811			3	\$452
HIGH PRESSURE SEWER & PIPE CLEANER (BPAC 699C041)	2320013721823			3	\$411
TRAILER, MANHOLE CLEANER (BPAC 699C042)	2330003073295			1	\$120
TRACTOR, IW90 INDUSTRIAL (BPAC 699E004)	2420014062995			9	\$450
TRACTOR, IW70 INDUSTRIAL (BPAC 699E005)	2420001138984			59	\$1,719
TRACTOR, WHEELED 85HP 4WD (BPAC 6993006)	2420012058579			11	\$623
TRUCK, DUMP 5T 4X2 UNITED STATES (BPAC 699F001)	2320008336117			9	\$368
TRUCK, DUMP 4X4 (BPAC 699F003)	2320007065348			16	\$1,192
TRUCK, DUMP 6X4 (BPAC 699F006)	2320013449282			25	\$2,031
TRUCK, DUMP 6X4 55K GVW (BPAC 699F008)	2320010585725			6	\$601
TRUCK, DUMP OFF ROAD (BPAC 699F010)	3805009310616			1	\$211
TRUCK, DUMP 5T 4X2 JAPAN (699F011)	2320008336117			1	\$41
T-4 TRACTOR (BPAC 699G001)	2410001664176			1	\$82
DOZER T7 (BPAC 699G002)	2410007561161			5	\$883
GRADER, SZ 2 TYPE III ARTICULATING (BPAC 699J003)	3805013374623			4	\$555
GRADER, SZ 5 TYPE III ARTICULATING (BPAC 699J004)	3805013374624			5	\$658
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**ELECTRONICS & TELECOMMUNICATION EQUIPMENT**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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ELECTRONICS & TELECOMMUNICATION EQUIPMENT

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$22,224	\$34,944	\$26,331	\$33,568	\$57,091	\$60,512	\$87,651
<p><b>Description:</b></p> <p>In FY02, the Communications Security Program received \$3.16 million as part of the Defense Emergency Relief Fund (DERF). Funding was used to restore depleted supplies of COMSEC equipment in support of operation ENDURING FREEDOM.</p> <p>In FY03 we anticipate receiving \$8.6 million from the Cost of War Transfer Account. These funds are not included in the baseline. Funding would be used to procure additional hardware for Computer Security Assistance Program (CSAP) (\$1.032 million), CSAP Countermeasures (\$3.870 million), CSAP Assessments (\$1.634 million), Information Warfare Country Builds (\$1.032 million), and Information Warfare reachback (\$1.032 million).</p> <p>This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices and related equipment. The program includes equipment upgrades and replacements which incorporate state-of-the-art technologies to provide critical mission war-fighter secure voice and data communications in space, tactical, strategic and network applications for globally deployed cryptologic assets supporting Air Force and DoD missions. Supported systems fall within Air Force Information Systems Security (INFOSEC) and Information Assurance (IA) arenas.</p> <p>Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p> <p>1. COMSEC EQUIPMENT: FY01-03 funding continues in the following three categories.</p> <p style="padding-left: 40px;">a. SPACE COMMUNICATIONS SECURITY PRODUCTS (SPECIAL PROJECTS): Includes mission critical command and control encryption products, telemetry and mission data decryption products and high-speed mission data downlink decryption products. The command</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT		
<b>Description (continued):</b> and control encryption products and the telemetry decryption products support the Space Based Infrared System (SBIRS) transition from multi-channel, multi-algorithm ground communication products. The transition in SBIRS system design was based on a system level technical risk assessment. Delivery of the new products is on the critical path for SBIRS system integration schedules. The high-speed mission downlink decryption products support two special projects performing national level missions to assure the military leaders and the warfighter have an integrated and interactive picture of the entire battle spaces.				
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b>					
<p>b. AIR AND GROUND COMMUNICATIONS PROGRAM: Includes a wide range of security products addressing a variety of applications and security levels, ranging from traditional COMSEC to embedded cryptographic modules for use in tactical and strategic environments.</p>					
<p>c. AIR FORCE ELECTRONIC KEY MANAGEMENT SYSTEM (AFEKMS): An Acquisition Category (ACAT) III acquisition and sustainment program providing secure, flexible and timely upgrades to existing key generation, distribution and management systems. (Reference Program Element 33401F of the Air Force Descriptive Summaries.)</p>					
<p>2. COMPUTER NETWORK SUPPORT: Provides Defensive Counter Information capability to protect Air Force computer systems and their information against unauthorized intrusion, corruption, and/or destruction, be it deliberate or unintentional. This program contains Air Force Information Warfare Center (AFIWC) and 67th Information Operations Wing (67th IW) programs and initiatives to protect Air Force computers, whether they are stand-alone, networked, telephone switches, or embedded in weapon systems, and provide Information Warfare (IW) threat prediction for AF systems. A brief description by program/initiative follows.</p>					
<p>a. COMPUTER SECURITY ASSISTANCE PROGRAM (CSAP) AF COMPUTER EMERGENCY RESPONSE TEAM (AFCERT): Through the CSAP, the warfighter can identify computer system intrusion attempts, conduct isolation and containment actions, and quickly determine the operational status of computer systems. AFCERT, the AF-level point of contact for reporting and handling computer security incidents/vulnerabilities, exercises operational control for the integration and implementation of Automated Security Incident Measurement (ASIM) intrusion detection monitoring, and performs ASIM data analysis and incident response (IR). IR consists of AFCERT's capability to isolate, contain and recover from unauthorized activity targeted at AF and related automated information systems before that activity impacts AF operations and mission capability. AFCERT coordinates the operational and technical resources needed to assess, analyze, and respond to computer security incidents detected by ASIM or reported by AF computer users, security managers, and system administrators. FY01-03 funding provides hardware/software necessary for intrusion detection monitoring and data analysis and incident response capability.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT			
<b>Description (continued):</b>					
<p>b. CSAP COUNTERMEASURES: The Countermeasures Engineering Team (CMET) provides technical support for CSAP. The team designs, develops, tests and deploys information protection tools, products and services as countermeasures for use by the AFCERT and the CSAP Assessments Teams, as well as AF, DoD, and authorized national agencies. Data collected by the AFCERT and Assessments Teams directly influence development of countermeasure tools and drive the near real-time implementation of countermeasures in the field. FY01-03 funding procures hardware/software necessary for vulnerability analysis, vulnerability identification and countermeasure development and tool prototyping and testing in an environment simulating the real-world operational environment.</p>					
<p>c. CSAP ASSESSMENTS: Responsibility for system vulnerability assessments falls to the Computer Security Engineering Teams (CSET) and the Security Technology and Test Team (STIT). The CSET, a deployable response force, technically assesses and identifies existing vulnerabilities in AF systems and helps units recover from intruder or virus incidents in AF systems. The CSET attempts to electronically penetrate AF computer systems and networks to assess their security posture and provide training and countermeasures to correct identified problems. The STIT performs product assessments; develops, tests and integrates solutions for security deficiencies in AF systems; performs Security Test and Evaluation; and participates with the System Program Office (SPO) in the acquisition of new systems to eliminate known vulnerabilities prior to system deployment. The team enhances the security posture of AF networks through assessment of known risks and application of the best available technologies. The STIT also provides technical oversight and performs emissions security (EMSEC) testing to control all compromising emanations to afford protection to facilities, systems and equipment that process classified information. FY01-03 funding purchases equipment used to assist MAJCOMs, SPOs, and field units in identifying security flaws and requirements; performing security engineering tasks; testing products in an effort to provide security product compatibility across the AF and DoD; performing analysis and reporting on the AF security posture; and conducting EMSEC testing.</p>					
<p>d. SENSOR SHADOW: Provides intelligence support to the CSAP as well as strategic and tactical commanders for protection of USAF information systems. The program provides a phased implementation of automated tools and analytical capabilities leading to IW threat prediction, as well as threat tracking and analysis. This analytical product supports the war fighting community via electrical message and via intelligence communities' secure compartmented information (SCI) network and secret Internet protocol router network (SIPRNet) web sites</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT		
<b>Description (continued):</b> implemented and maintained by the SHADOW program. FY01-03 funding procures new client systems, server systems, system storage devices and system network devices to support threat analysis database capability.  e. IW COUNTRY BUILDS (CTAS): This program conducts integrated command and control warfare (C2W) intelligence analysis on countries in support of the Joint Forces Air Component Commander. FY01-03 funding procures automated information systems, upgrades/replacements for UNIX workstations, server hardware upgrades, SCI data, and servers.  f. IW REACHBACK (CI LAN): This program procures a deployable IW reachback capability for deployed teams supporting information protect and attack functions. FY01-03 funding procures a follow-on processor, back channel communications designed to support IW requirements and S-Band Tactical Automated Receive (STAR) terminal systems.  3. US SPACE COMMAND (USSPACECOM): FY02/03 funds procure communications infrastructure and systems security equipment, to include data networking hardware, telephones, and multi-level security workstations required to support USSPACECOM's Computer Network Defense (CND) and Computer Network Attack (CNA) missions. Previous funding (FY01 and prior) for the USSPACECOM Headquarters facility was provided in General Information Technologies (formerly known as Automatic Data Processing Equipment), P-1 line item 41.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. COMSEC EQUIPMENT (1) (2)					\${17,647}		\${20,816}		\${20,112}
A. SPACE COMSEC PRODUCTS					\${5,365}		\${8,810}		\${8,912}
KGR-247	A					3	\$6,000	3	\$6,000
KGR-247 LOGISTICS	A					1	\$2,000		
VPC	A							100	\$2,000
VPC LOGISTICS	A							1	\$410
KGV-136	A					4	\$195		
KI-17	A			16	\$1,201				
KIV-7	A			100	\$407				
MYK-16	A			30	\$1,067				
MYK-16 LOGISTICS	A			1	\$1,000				
MYK-17	A			11	\$428				
KI-17 MAINTENANCE MANUAL	A			1	\$650				
KIT-223A	A			2	\$118				
MYK-7	A			4	\$121				
MYK-7F	A			2	\$50				
MYK-5	A			1	\$52				
R-BATSON	A			1	\$193				
EKMS (DTD)	A			23	\$78				
EKMS (MYK)	A					40	\$615	33	\$502
B. AIR & GROUND COMM PROGRAM					\${8,689}		\${8,752}		\${8,909}
FASTLANE TESTER	A			1	\$653				
		<b>P-1 ITEM NO</b> 32		<b>PAGE NO:</b> 6				Page 1 of 3	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT					P-1 NOMENCLATURE: COMSEC EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
KG-68B	A			246	\$111	101	\$83	156	\$94	
KG-75	A			108	\$3,181	125	\$3,756	149	\$4,484	
KG-175	A			385	\$3,259	397	\$3,573	399	\$3,596	
ULTRA FASTLANE (KG-75A)	A			1	\$50					
MITRE BILLET (E-CRYPTO)	A			1	\$190	1	\$196			
CAR	A			104	\$242	180	\$750	147	\$735	
DIWS (MITRE PROJECT)	A			1	\$80					
NAVY SETTLEMENT	A			1	\$8					
ITAC	A			1	\$703	1	\$159			
C-1 13 CONTRACT SETTLEMENT	A			1	\$12					
1/2 MITRE BILLET (E-CRYPTO)	A			1	\$200	1	\$125			
KL-86A						90	\$110			
C. AFEKMS					\${3,593}		\${3,254}		\${2,291}	
AFEKMS (MITRE)	A			3	\$820	1	\$196			
AFEKMS (PC S)	A			375	\$671					
AFEKMS (CM2)	A			1	\$454					
AFEKMS (TIER 2 LAN)	A							1	\$200	
AFEKMS (HW/SW UPGRADE)	A			1	\$38	1	\$202	1	\$25	
AFEKMS (DEPLOYABLE DMD WORKSTATIONS)	A			272	\$1,090	714	\$2,856	304	\$1,066	
AFEKMS (KOV-21 CARDS)	A							1000	\$1,000	
AFEKMS (OVER-RUN)	A			1	\$20					

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMSEC EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFEKMS (DIRECTORY SERVICES)	A			1	\$200				
AFEKMS (EKMS BILL)	A			1	\$300				
2. COMPUTER NETWORK SUPPORT (1) (2)					\${4,577}		\${14,128}		\${6,219}
A. CSAP (AFCERT)	A				\$240		\$252		\$257
B. CSAP COUNTERMEASURES	A				\$2,054		\$2072		\$2103
C. CSAP ASSESSMENTS	A				\$899		\$905		\$923
D. SENSOR SHADOW	A				\$846		\$861		\$878
E. IW COUNTRY BUILDS (CTAS)	A				\$317		\$323		\$329
F. IW REACHBACK (CI LAN)	A				\$221		\$225		\$229
3. USSPACECOM (1) (2)	A						\$9,490		\$1,500
<b>Totals:</b>					\$22,224		\$34,944		\$26,331
<b>Remarks:</b>									
<ol style="list-style-type: none"> <li>1. Multiple quantities and unit costs associated with COMSEC equipment.</li> <li>2. Multiple contracts and delivery dates exist for the various types of equipment throughout the fiscal years.</li> </ol>									
<b>P-1 ITEM NO</b> 32					<b>PAGE NO:</b> 8		Page 3 of 3		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS (COMSEC)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$264	\$465	\$460	\$0	\$480	\$487	\$498
<p><b>Description:</b></p> <p>The Communications Security (COMSEC) Modification program provides for retrofit and modification of selected equipment. FY01-03 funds procure the ELWELL (this is not an acronym) power supply modification, which will extend the life cycle of the ELWELL units to support customer mission life requirements and reduce maintenance cost.</p>								
<b>P-1 ITEM NO</b> 33		<b>PAGE NO:</b> 9					Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE TRAINING EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,484	\$1,228	\$1,310	\$3,025	\$3,011	\$4,903	\$5,326
<p><b>Description:</b></p> <p>The Intelligence Training Equipment funds procure equipment for military personnel to receive initial, intermediate, and advanced training in the General Intelligence and Cryptologic/Signals Intelligence (SIGINT) related career fields. General intelligence is comprised of all imagery, analysis, indications and warning, fusion, targeting, and weaponeering training. Cryptologic/SIGINT skills related training includes all communications (except communications security) and electronic intelligence as well as intelligence systems maintenance training. Major procurement items support generic functional training on new generations intelligence systems. No operational equipment is procured. The emphasis is on computer-based training systems which allow simulation of operational equipment functions through software manipulation. This equipment is essential for preparing intelligence personnel to support war fighting commanders. The equipment is located at Goodfellow AFB, TX where intelligence training is conducted. These systems support Air Force responsible training authority and executive agency training for the DoD and all Services.</p> <p>Items requested in FY03 are identified on the P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <ol style="list-style-type: none"> <li>1. AUTOMATIC MESSAGE HANDLING SYSTEM (AMHS) TRAINING SYSTEM: No FY03 funding requested.</li> <li>2. SENTINEL II TRAINING SYSTEM: No FY03 funding is requested.</li> <li>3. GOODFELLOW INTELLIGENCE TRAINING SYSTEM (ITS) INFRASTRUCTURE UPGRADE: FY02/03 funds procure the ITS infrastructure upgrade, which consists of the hardware and associated software needed to improve/upgrade the training network backbone. This funding includes the General Intelligence lifecycle procurement of replacement servers and workstations to include imagery servers and workstations, switches, printers, and software support. FY03 funds will also procure replacement hardware for modernizing interactive courseware (ICW) development labs, and lifecycle procurement of operational exercise workstations and related equipment.</li> </ol>								
	<b>P-1 ITEM NO</b> 34		<b>PAGE NO:</b> 10			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE TRAINING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AMHS TRAINING SYS	A				\$237				
2. SENTINEL II TRNG SYS	A				\$1,247				
3. GOODFELLOW ITS UPGRADE	A						\$1,228		\$1,310
<b>Totals:</b>					\$1,484		\$1,228		\$1,310
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 34				<b>PAGE NO:</b> 11		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$18,501	\$3,432	\$9,043	\$3,803	\$3,972	\$5,917	\$6,080
<p><b>Description:</b></p> <p>The Intelligence Communications Equipment program procures various communications equipment required to disseminate intelligence information to the warfighter across the spectrum of Air Force (AF) intelligence, surveillance, and reconnaissance (ISR) mission areas. Program Items requested in FY03 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. JOINT TACTICAL TERMINAL/COMMON INTEGRATED BROADCAST SERVICE MODULES (JTT/CIBS-M): JTT is a member of the Congressionally-mandated family of terminals delivering CIBS-M capability. The JTT/CIBS-M must meet all requirements stated in the JTT Joint Operational Requirements Document (JORD).</p> <p style="margin-left: 40px;">A. JTT/CIBS-M UNITS: FY03 funding will procure the full size JTT with CIBS-M and additional JTT configurations as required, and funds direct mission support. This JTT family of equipment transmits and receives intelligence broadcasts over ultra high frequency, line of sight, and satellite communications channels, and allows dynamic configuring of channels without affecting operations. The software is transportable across widely used commercial processors, provides channel isolation to preclude interference, and accommodates all Tactical Related Information Exchange Systems (TRIXS), Tactical Information Broadcast Service (TIBS), Tactical Related Application Program (TRAP) Data Dissemination System (TDDS), and Tactical Data Information Exchange System B (TADIX-B) information broadcast service formats and protocols. The configuration of JTTs procured will be dependent on Air Force requirements, type platform, and availability of JTT contract options. Funding for the JTT/CIBS-M integration on aircraft platforms is the responsibility of each platform.</p> <p style="margin-left: 40px;">B. CRYPTO DEVICES: FY03 funding will procure critical cryptologic collection, processing, and dissemination equipment to support the JTT Communications Security (COMSEC) requirements. This equipment will be integrated into the JTT units.</p>								
	<b>P-1 ITEM NO</b> 35		<b>PAGE NO:</b> 12			Page 1 of 3		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT	
<b>Description (continued):</b>			
<p>2. AIR FORCE TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (AF TENCAP): This program was established in 1977, based on a Congressional mandate, to improve AF tactical warfighting operations through effective use of national space system resources. It accomplishes this through three specific endeavors: a) rapid-prototyping of new and unique methods with potential for improving tacticalwarfighting operations, then exploiting the true utility of the prototyped methods through one-to-two year demonstrations; b) influencing the design and operation of future space systems for tactical applications through close involvement with those government agencies andcommercial companies who design, build, and operate US space systems; and c) developing and implementing educational and training programs that inform Combat Air Forces (CAFs) how to use and benefit from available space-based resources. FY01-03 funding continues procurement of the AF TENCAP LAN equipment.</p>			
<p>3. SPACE WARFARE CENTER (SWC): The SWC, located at Shriever AFB, CO, develops, evaluates, and tests space application and utility concepts, new technologies, and tactics that enable AF Warfighters to realize the full potential of existing and planned space-based resources and to better defend against hostile space activities. FY01-03 funding continues procurement of equipment for implementation of the SWC LAN Upgrade (SLU), and to accommodate the increases in SWC personnel computer network and telecommunication system requirements. The primary focus of the SLU is to improve user accessibility to the SECRET level networks; establish connection with existing high speed development networks available in the Joint National Test Facility (JNTF); and continue the consolidation of backbone infrastructure to improve reliability, reduce maintenance costs, optimize available in-place cabling use, and simplify communications infrastructure.</p>			
<p>4. AIR NATIONAL GUARD (ANG) TACTICAL CRYPTOLOGIC SUPPORT: FY01 funding integrated eight Tasking, Exploitations, Processing, and Dissemination (TPED) positions using the Air Force SENIOR YEAR Gateway (SYGATE) system. This real time SIGINT exploitation and processing capability provides the AF Distributed Common Ground Stations (DCGS) access to the linguistic resources available in the 169th Intelligence Squadron located in Salt Lake City, UT. FY02 funding provides an additional three TPED positions for initial operations. FY03 funding will provide for final four TPED positions for the ANG DCGS remote system.</p>			
<p>5. EAGLE VISION IV: No FY03 funding is requested.</p>			
<p>6. INFORMATION ASSURANCE: Information Assurance (IA) is the operations that protect and defend information and information systems</p>			
	<b>P-1 ITEM NO</b> 35	<b>PAGE NO:</b> 13	Page 2 of 3

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> INTELLIGENCE COMMUNICATIONS EQUIPMENT			
<p><b>Description (continued):</b></p> <p>by ensuring their availability, to include providing for the restoration of information systems by incorporating protection, detection, and reaction capabilities. IA hardware and software protect Air Force computer systems and their information against unauthorized intrusion, corruption, and/or destruction, be it deliberate or unintentional.</p> <p>A. NETWORK INTRUSION DETECTION DEVICE: No FY03 funding is requested.</p> <p>B. SECURE TERMINAL EQUIPMENT (STE): In FY02, Congress added \$1.5 million for STE. Reference Appropriations Conference Report 107-350, Dec 19, 2001, page 293.</p>					
	<b>P-1 ITEM NO</b> 35		<b>PAGE NO:</b> 14		Page 3 of 3

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: INTELLIGENCE COMMUNICATIONS EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
1. JOINT TACTICAL TERMINAL/COMMON INTEGRATED BROADCAST SERVICE MODULES (JTT/CIBS-M)														{7,112}
A. JTT/CIBS-M UNITS (1)	A													6,675
B. CRYPTO DEVICES	A													437
2. AF TENCAP	A						195			197				197
3. SPACE WARFARE CTR (SWC)	A						736			773				756
4. ANG TACTICAL CRYPTOLOGIC SPT	A						924			962				978
5. EAGLE VISION IV	A						5,000							
6. INFORMATION ASSURANCE							{11,646}			{1,500}				
A. NETWORK INTRUSION DETECT DEV	A						4,710							
B. STE	A						6,936			1,500				
<b>TOTALS:</b>							18,501			3,432				9,043
<b>REMARKS:</b>														
(1) JTT units refer to the full size end item plus auxillary items such as power amps, radio trays, and antenna installation kits.														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: INTELLIGENCE COMMUNICATIONS EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. JOINT TACTICAL TERMINAL/COMMON INTEGRATED BROADCAST SERVICE MODULES (JTT/CIBS-M) (1)										
A. JTT/CIBS-M UNITS										
FY03			AFMC/ESC	MIPR/FFP	ARMY/CECOM, RAYTHEON, ST. PETERSBURG, FL	JUN 03	DEC 04	Y		
B. CRYPTO DEVICES										
FY01			AFMC/ESC	MIPR/FFP	ARMY/CECOM, RAYTHEON, ST. PETERSBURG, FL	SEP 01	JUN 02			
FY03			AFMC/ESC	MIPR/FFP	ARMY/CECOM, RAYTHEON, ST. PETERSBURG, FL	JUN 03	DEC 04	Y		
2. AF TENCAP (1)										
FY01			HQ AFSPC	DO/FP	INFORMATION TECH & APPLICATIONS CORP, COLORADO SPRINGS, CO	JAN 01	JUN 01			
FY02			HQ AFSPC	DO/FP	INFORMATION TECH & APPLICATIONS CORP, COLORADO SPRINGS, CO	JAN 02	JUN 02			
FY03			HQ AFSPC	DO/FP	INFORMATION TECH & APPLICATIONS CORP, COLORADO SPRINGS, CO	JAN 03	JUN 03	Y		
3. SPACE WARFARE CTR (SWC) (1)										
FY01			HQ AFSPC	DO/FP	BTG, COLORADO SPRINGS, CO	JAN 01	APR 01			
FY02			HQ AFSPC	DO/FP	BTG, COLORADO SPRINGS, CO	JAN 02	APR 02			
FY03			HQ AFSPC	DO/FP	BTG, COLORADO SPRINGS, CO	JAN 03	APR 03	Y		
		<b>P-1 ITEM NO</b> 35		<b>PAGE NO:</b> 16		Page 1 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: INTELLIGENCE COMMUNICATIONS EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
4. ANG TACTICAL CRYPTOLOGIC SPT (1)										
FY01			AFMC/WR-ALC	DO/FFP	RAYTHEON SYS, FALLS CHURCH, VA	NOV 00	DEC 00			
FY02			AFMC/WR-ALC	DO/FFP	RAYTHEON SYS, FALLS CHURCH, VA	NOV 01	DEC 01			
FY03			AFMC/WR-ALC	DO/FFP	RAYTHEON SYS, FALLS CHURCH, VA	NOV 02	JUL 03	Y		
5. EAGLE VISION (1)										
FY01			AFMC/ESC	MIPR/FFP	MULTIPLE (2)	JUL 01	AUG 01			
6. INFORMATION ASSURANCE (1)										
A. NETWORK INTRUSION DETECT DEV (3)										
FY01			AFMC/ESC	DO/FFP	EDS, HERNDON, VA TRW, SAN ANTONIO TX	NOV 00	JAN 01			
B. STE										
FY01			AFMC/ESC	MIPR/FFP	NSA, L-3 COMMUNICATIONS, CAMDEN, NJ	OCT 00	DEC 00			
FY02			AFMC/ESC	MIPR/FFP	NSA, L-3 COMMUNICATIONS, CAMDEN, NJ	JAN 02	JUL 02			
<b>REMARKS:</b> 1. Quantity/unit costs vary because of different types/configurations of equipment being procured. 2. Various contract methods and types of contracts support Eagle Vision: Matra System & Information, Velizy, FR; ERIM International, Inc., Ann Arbor, MI; and other contractors. Award date reflects exercise of the option on the Matra contract. 3. Option to ULANA II contract at SSG, Gunter Annex, Maxwell AFB AL.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCALs)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,979	\$4,666	\$52,038	\$82,899	\$83,908	\$11,537	\$4,902
<p><b>Description:</b></p> <p>In FY02, ATCALs received \$480,000 as part of the Defense Emergency Relief Fund (DERF). Funding was used to install new Instrument Landing System (ILS) at Dobbins Air Reserve Base (ARB), GA. This effort is in support of Operation NOBLE EAGLE and HOMELAND DEFENSE.</p> <p>Air Traffic Control and Landings Systems (ATCALs) procures and supports fixed-base and tactical radars, navigational aids, voice communications (radio and telephone), and data processing/automation capabilities. ATCALs enables United States Air Force (USAF) air traffic controllers the ability to provide advisory, sequencing, separation, and landing guidance services to all aircraft in USAF-assigned airspace. The weapon system includes operational equipment, training systems for air traffic controllers and equipment required to interface USAF systems with systems operated and maintained by other services, the Federal Aviation Administration (FAA), or host-nations.</p> <ol style="list-style-type: none"> <li>1. RADAR APPROACH CONTROLS (RAPCONs): No FY03 funds are requested.</li>   <li>2. INSTRUMENT LANDING SYSTEM (ILS): The ILS consists of two subsystems, a localizer that provides runway alignment information and a glideslope to provide vertical descent angle information. ILS provides horizontal and vertical guidance to allow aircraft to make a precision approach to a runway in inclement weather. The current operational ILS systems are approaching the end of their intended life cycle. FY02/03 funds will procure and install seven ILS, 3/4 respectively, at key Air Force locations.</li>   <li>3. TOWER SIMULATION SYSTEM (TSS): The TSS is a realistic visual control tower simulation tool to train Air Force air traffic controllers at their respective field locations. The TSS will use voice recognition technology to accurately replicate voice communications between the controller and simulated aircraft. An Air Force shortfall of qualified controllers has reduced the operating hours at thirty Air Traffic Control Flights (ATCFs). The TSS will provide a means to accelerate the training of controllers towards a</li> </ol>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL)			
<b>Description (continued):</b> 5/7-level certification. FY02/03 funds will procure and install thirty-four TSS, 3/31 respectively, at key Air Force locations.  4. <b>MOBILE APPROACH CONTROL SYSTEM (MACS):</b> The MACS provides the next generation mobile radar approach controlsystem. MACS will provide air traffic control services, day and night, in all weather conditions, to military and civil aircraft. The system will be tailored to meet requirements of the theater commander and must operate within FAA and International Civil Aviation Organization (ICAO) performance parameters. US military forces are required to be highly mobile and capable of rapid response on a global basis in response to the full spectrum of Smaller-Scale Contingencies (SSC) and Major Theater War (MTW) operations. A mobile air traffic control system is essential to support this objective. The current mobile air traffic control system needs to be thoroughly modernized to support military and civil aircraft operations at deployed locations and in the US. FY03 funds will procure and install two air surveillance radars and operations shelters.  5. <b>AIR FORCE TERMINAL INSTRUMENT PROCEDURES REPLACEMENT (AFTERPS-R):</b> AFTERPS-R is a software based program used to develop and evaluate instrument approach procedures for all airfields used by USAF aircraft. AFTERPS-R contributes to the Air Force mission by ensuring terrain/obstacle clearance is maintained in accordance with national and international aviation organization standards. AFTERPS-R provides the Air Force the capability to safely launch and recover aircraft at airfields worldwide. FY03 funds procure 400 site licenses.  Items requested in FY03 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL)					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. RADAR APPROACH CONTROL	A				\$7,979				
2. INSTRUMENT LANDING SYSTEM	A						\$1,487		\$1,980
3. TOWER SIMULATION SYSTEM	A					3	\$3,179	31	\$25,919
4. MOBILE APPROACH CONTROL SYSTEM	A							2	\$20,166
5. AIR FORCE TERMINAL INSTRUMENT PROCEDURES REPLACEMENT									\$3,973
<b>Totals:</b>					\$7,979		\$4,666		\$52,038
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 36				<b>PAGE NO:</b> 20		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL5)						
ITEM / FISCAL 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. RADAR APPROACH CONTROL (1)										
FY01			AFMC/ESC	OPT (2)/FFP	RAYTHEON CORP, MARLBORO, MA	MAY 01	AUG 04			
FY01			AFMC/OC-ALC	OTH (3)/FFP	GOVERNMENT OF AUSTRALIA	JUN 01	OCT 01			
2. INSTRUMENT LANDING SYSTEM (1)										
FY02			AFMC/ASC	C/FFP	UNKNOWN	FEB 02	FEB 03	Y		
FY03			AFMC/ASC	C/FFP	UNKNOWN	JAN 03	JAN 04	Y		
3. TOWER SIMULATION SYSTEM (1)										
FY02	3		AFMC/ASC	C/FFP	UNKNOWN	MAR 02	NOV 02	Y		
FY03	31		AFMC/ASC	C/FFP	UNKNOWN	NOV 02	MAY 03	Y		
4. MOBILE APPROACH CONTROL SYSTEM (1)										
FY03	2		AFMC/ESC	OPT (4)/FFP	ITT GILFILLAN, VAN NUYS CA	JUN 03	DEC 04	Y		
<b>REMARKS:</b> 1. System equipment quantity and configurations are tailored to meet specific site requirements, resulting in varying unit costs. 2. Option to the Air Force Digital Airport Surveillance Radar contract awarded in August 1996 to Raytheon Corp., Marlboro, MA. 3. These precision radars were purchased directly from the Government of Australia. A Miscellaneous Obligation/Reimbursement Document was posted in June 2001. 4. Option to the Air Force Mobile Approach Control System contract awarded in October 2000 to ITT Gilfillan, Van Nuys, CA.										
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PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)																		DATE: FEBRUARY 2002									
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT										P-1 NOMENCLATURE: AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL)																	
ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	CALENDAR 2002												CALENDAR 2003									Later	
					FY2002												FY2003										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL
TOWER SIMULATION SYSTEM																											
FY02	AF	3		3																							
FY03	AF	31		31																							
TOTALS		34	0	34																							
ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	CALENDAR 2004												CALENDAR 2005									Later	
					FY2004												FY2005										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL
TOWER SIMULATION SYSTEM																											
FY02	AF	3	3	0																							
FY03	AF	31	13	18	3	3	3	3	3	3																	
TOTALS		34	16	18	3	3	3	3	3	3																	
MANUFACTURER'S NAME AND LOCATION		PRODUCTION RATES												PROCUREMENT LEAD TIME													
UNKNOWN		MIN SUST	1-8-5	MAX										ADMIN LEAD TIME		MANUFACT.	TOTAL										
														PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT										
														INITIAL	0	5	8	13									
														REORDER	0	1	6	7									
REMARKS:																											
				P-1 ITEM NO: 36								PAGE NO: 22				Page 1 of 1											

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)** **DATE: FEBRUARY 2002**

**APPROP CODE/BA:**  
OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT

**P-1 NOMENCLATURE:**  
AIR TRAFFIC CONTROL/LANDING SYSTEM (ATCAL)

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2001	CALENDAR 2002												CALENDAR 2003									Later	
					FY2002												FY2003											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG
MACS																												
FY03	AF	2		2																							C	2
TOTALS		2	0	2																								2

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2003	CALENDAR 2004												CALENDAR 2005									Later	
					FY2004												FY2005											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG
MACS																												
FY03	AF	2	0	2															1	1								
TOTALS		2	0	2															1	1								

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			PROCUREMENT LEAD TIME			
	MIN SUST	1-8-5	MAX	ADMIN LEAD TIME		MANUFACT.	TOTAL
				PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT
ITT GILFILLAN, CA	1		1				
				INITIAL	0	8	18
				REORDER	UNK	UNK	UNK

**REMARKS:**

# UNCLASSIFIED

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$55,339	\$46,604	\$55,561	\$43,883	\$40,800	\$56,477	\$63,633
<b>Description:</b>								
<p>The National Airspace System (NAS) program modernizes the Department of Defense (DoD) Air Traffic Control (ATC) system, in conjunction with the Federal Aviation Administration (FAA) modernization effort. NAS will increase safety of flight; provide systems and facilities interoperable with FAA modernization; replace aging DoD ATC systems; provide identical service to military and civilian aircraft; reduce DoD flight cancellations/delays; and reduce maintenance. Equipment procured includes fixed site approach control and control tower automation systems, radars, voice switches, site preparation, installation support, ancillary supplies and direct production support. Use of Non-Developmental Items (NDI) has been maximized. Current systems are approaching the end of their planned life cycle and have become increasingly more expensive and difficult to repair. As the FAA modernizes the nation's air traffic control system, DoD must remain operationally compatible to continue to provide service to the military and the civilian users who depend on DoD's ATC services.</p> <p>The Air Force is the lead service for the NAS program. NAS will modernize 92 DoD sites with a site-unique array of equipment. Some of these sites include the major range and test facility bases, which may require procurement of non-standard communications and automation equipment through separate contracts. Of these 92 DoD sites, 44 constitute Air Force sites requiring Air Force funding.</p> <p>1. DOD ADVANCED AUTOMATION SYSTEM (DAAS): The DAAS is comprised of equipment tailored to support the operation of two types of ATC facilities: Radar Approach Controls (RAPCONs) and military control tower facilities. DAAS provides digital controller displays, consoles, automation hardware and software to replace those systems approaching the end of their life cycle. DAAS replaces the current generation air traffic control automation system in DoD RAPCONs. FY01-03 funds procure and install 8 DAAS (3/4/1 respectively) at key Air Force locations.</p> <p>2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR): The DASR consists of two subsystems: a primary and a secondary surveillance</p>								
	<b>P-1 ITEM NO</b> 37			<b>PAGE NO:</b> 24				Page 1 of 2

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM			
<p><b>Description (continued):</b></p> <p>radar. DASR provides aircraft position and other data to the controller displays in the RAPCON and at select control tower locations. DASR replaces the DoD current generation of analog ATC surveillance radars. FY01-03 funds procure and install 13 DASRs (5/1/7 respectively) at key Air Force locations. FY02 radar will be purchased following operational user analysis of test data. This will cause the least disruption to the end user's planned upgrade of their deteriorating legacy systems and prevent having to reaccomplish site survey and environmental assessment work.</p> <p>3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS): VCSS equipment is tailor-made to support communications in a variety of facilities ranging from low-volume ATC to large radar approach control facilities. VCSS provides the connectivity for controllers to communicate via land lines and radios with requisite aircraft, vehicles, and agencies. VCSS replaces current analog switches with new digital voice switches for DoD RAPCONs and some stand-alone control towers. FY01-03 funds procure and install 74 VCSS (29/30/15 respectively) at key Air Force locations.</p> <p>Items requested in FY03 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>					
	<b>P-1 ITEM NO</b> 37		<b>PAGE NO:</b> 25		Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NATIONAL AIRSPACE SYSTEM					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. DOD ADVANCED AUTOMATION SYSTEM	A				\$10,759		\$21,006		\$10,497
2. DIGITAL AIRPORT SURVEILLANCE RADAR	A				\$20,174		\$4,473		\$32,646
3. VOICE COMMUNICATIONS SWITCHING SYSTEM	A				\$24,406		\$21,125		\$12,418
<b>Totals:</b>					\$55,339		\$46,604		\$55,561
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 37				<b>PAGE NO:</b> 26		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
1. DOD ADVANCED AUTOMATION SYSTEM (1)										
FY01			AFMC/ESC	OPT/FFP(2)	RAYTHEON CORP., MARLBORO, MA	DEC 00	JUN 01			
FY02			AFMC/ESC	OPT/FFP(2)	RAYTHEON CORP., MARLBORO, MA	JAN 02	JUL 02			
FY03			AFMC/ESC	OPT/FFP(2)	RAYTHEON CORP., MARLBORO, MA	DEC 02	JUN 03	Y		
2. DIGITAL AIRPORT SURVEILLANCE RADAR (1)										
FY01			AFMC/ESC	OPT/FFP(3)	RAYTHEON CORP., MARLBORO, MA	MAR 01	AUG 02			
FY02			AFMC/ESC	OPT/FFP(3)	RAYTHEON CORP., MARLBORO, MA	JUN 02	NOV 03	Y		
FY03			AFMC/ESC	OPT/FFP(3)	RAYTHEON CORP., MARLBORO, MA	DEC 02	MAY 04	Y		
3. VOICE COMMUNICATIONS SWITCHING SYSTEM (1)										
FY01			AFMC/ESC	OPT/FFP(4)	LITTON-DENRO, GAITHERSBURG, MD	JAN 01	JUL 01			
FY02			AFMC/ESC	OPT/FFP(4)	LITTON-DENRO, GAITHERSBURG, MD	JAN 02	JUL 02			
FY03			AFMC/ESC	OPT/FFP(4)	LITTON-DENRO, GAITHERSBURG, MD	DEC 02	JUN 03	Y		
<b>REMARKS:</b> 1. System equipment quantity and configurations are tailored to meet specific site requirements. The result is varying unit costs in all systems. 2. Option to the FAA Standard Terminal Automated Replacement System contract awarded in September 1996. 3. Option to the Air Force Digital Airport Surveillance Radar contract awarded in August 1996. 4. Option to the FAA Enhanced Terminal Voice Switch contract awarded in July 1995.										
		<b>P-1 ITEM NO</b> 37				<b>PAGE NO:</b> 27				
						Page 1 of 1				

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)** **DATE: FEBRUARY 2002**

**APPROP CODE/BA:**  
OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT

**P-1 NOMENCLATURE:**  
NATIONAL AIRSPACE SYSTEM

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2001	CALENDAR 2002												CALENDAR 2003									Later
					FY2002												FY2003										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DAAS																											
FY01	AF	3	3	0																							
FY01	N	8	4	4		1	1	1	1																		
FY01	A	3	3	0																							
FY02	AF	4	0	4									1	1	1	1											
FY02	N	1	0	1									1														
FY02	A	3	0	3									1	1	1												
FY03	AF	1	0	1														C				1					
FY03	N	3	0	3														C				1	1	1			
FY03	A	4	0	4														C				1	1	1	1		
TOTALS		30	10	20		1	1	1	1				3	2	2	1					3	2	2	1			

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2003	CALENDAR 2004												CALENDAR 2005									Later
					FY2004												FY2005										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DAAS																											
FY01	AF	3	3	0																							
FY01	N	8	8	0																							
FY01	A	3	3	0																							
FY02	AF	4	4	0																							
FY02	N	1	1	0																							
FY02	A	3	3	0																							
FY03	AF	1	1	0																							
FY03	N	3	3	0																							
FY03	A	4	4	0																							
TOTALS		30	30	0																							

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			PROCUREMENT LEAD TIME			
	MIN SUST	1-8-5	MAX	ADMIN LEAD TIME		MANUFACT.	TOTAL
				PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT
RAYTHEON CORP, MARLBORO, MA	1		10				
				INITIAL	7	2	6
				REORDER	0	2	6

**REMARKS:**  
QUANTITIES REFLECT DOD REQUIREMENTS ONLY

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)** **DATE: FEBRUARY 2002**

**APPROP CODE/BA:**  
OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT

**P-1 NOMENCLATURE:**  
NATIONAL AIRSPACE SYSTEM

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2001	CALENDAR 2002												CALENDAR 2003									Later
					FY2002												FY2003										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DASR																											
FY01	AF	5		5																							
FY01	N	1	0	1																							
FY01	OTH	9	0	9																							
FY02	AF	1	0	1																							
FY02	N	1	0	1																							
FY02	OTH	3	0	3																							
FY03	AF	7	0	7																							
FY03	A	3	0	3																							
FY03	N	4	0	4																							
ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2003	CALENDAR 2004												CALENDAR 2005									Later
					FY2004												FY2005										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DASR																											
FY01	AF	5	5	0																							
FY01	N	1	1	0																							
FY01	OTH	9	9	0																							
FY02	AF	1	0	1																							
FY02	N	1	0	1																							
FY02	OTH	3	0	3																							
FY03	AF	7	0	7																							
FY03	A	3	0	3																							
FY03	N	4	0	4																							

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			TOTAL	PROCUREMENT LEAD TIME				
	MIN SUST	1-8-5	MAX		ADMIN LEAD TIME		MANUFACT.	TOTAL	
RAYTHEON CORP, MARLBORO, MA	0		3		PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT	
					INITIAL	3	2	18	20
					REORDER	0	2	18	20

**REMARKS:**  
IN THE SERV COLUMN, OTH IS THE FEDERAL AVIATION ADMINISTRATION. FAA QUANTITIES ARE INCLUDED BECAUSE THE AIR FORCE IS THE LEAD AGENCY FOR DASR ACQUISITION.

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)** **DATE: FEBRUARY 2002**

**APPROP CODE/BA:**  
OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT

**P-1 NOMENCLATURE:**  
NATIONAL AIRSPACE SYSTEM

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2001	CALENDAR 2002												CALENDAR 2003									Later
					FY2002												FY2003										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DASR																											
FY03	OTH	23	0	23															C								23
TOTALS		57	0	57																1	1	1	1				42

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2003	CALENDAR 2004												CALENDAR 2005									Later
					FY2004												FY2005										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
DASR																											
FY03	OTH	23	0	23									3						3	1	1	3	3	3	3	3	
TOTALS		57	15	42		3	1	1					3	3	3	3	3	3	3	2	3	4	4	3	3		

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			PROCUREMENT LEAD TIME			
	MIN SUST	1-8-5	MAX	ADMIN LEAD TIME		MANUFACT.	TOTAL
RAYTHEON CORP, MARLBORO, MA	0		3	PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT
				INITIAL	3	2	18
				REORDER	0	2	18

**REMARKS:**  
IN THE SERV COLUMN, OTH IS THE FEDERAL AVIATION ADMINISTRATION. FAA QUANTITIES ARE INCLUDED BECAUSE THE AIR FORCE IS THE LEAD AGENCY FOR DASR ACQUISITION.

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)** **DATE: FEBRUARY 2002**

**APPROP CODE/BA:**  
OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT

**P-1 NOMENCLATURE:**  
NATIONAL AIRSPACE SYSTEM

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2001	CALENDAR 2002												CALENDAR 2003									Later			
					FY2002												FY2003													
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP	
VCSS																														
FY01	AF	29	3	26	2	3	3	3	3	3	3	3	3	3																
FY01	A	14	3	11	1	1	2	2	2	3																				
FY02	AF	30	0	30				C						3	3	3	3	3	3	4	2	2	1							
FY02	A	12	0	12				C						2	2	2	2	1	1	1	1									
FY03	AF	15	0	15														C					3	3	3	3				
FY03	A	6	0	6														C					1	1	1	1				
TOTALS		106	6	100	3	4	5	5	5	6	3	3	3	5	5	5	5	5	4	4	4	5	2	2	1	4	4	4	4	5

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	2003	CALENDAR 2004												CALENDAR 2005									Later	
					FY2004												FY2005											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG
VCSS																												
FY01	AF	29	29	0																								
FY01	A	14	14	0																								
FY02	AF	30	30	0																								
FY02	A	12	12	0																								
FY03	AF	15	12	3	2	1																						
FY03	A	6	4	2	1	1																						
TOTALS		106	101	5	3	2																						

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			PROCUREMENT LEAD TIME			
	MIN SUST	1-8-5	MAX	ADMIN LEAD TIME		MANUFACT.	TOTAL
				PRIOR TO 1 OCT	AFTER 1 OCT	PLT	1 OCT
LITTON-DENRO INC, GAITHERSBURG	0		10				
				INITIAL	2	2	6
				REORDER	0	2	6

**REMARKS:**

# UNCLASSIFIED

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$14,732	\$19,421	\$16,713	\$36,518	\$41,518	\$60,144	\$61,171
<p><b>Description:</b></p> <p>The Theater Air Control System Improvements (TACSI) program acquires state-of-the-art equipment and capabilities essential to the survival and combat effectiveness of tactical air command and control (C2). Collectively, they provide the flexibility, responsiveness, reliability and maintainability necessary for effective C2. Additionally, TACSI provides funding for procurement of the Air Force Mission Support System which provides unit level mission planning systems for pilots and supports all current/future aircraft and associated weapons.</p> <p>1. GROUND THEATER AIR CONTROL SYSTEM (GTACS): The GTACS Control and Reporting Center (CRC) Modular Control Equipment (MCE) supports the roles of aerospace control, force application, force enhancement, and force support. The system supports worldwide operations ranging from military-operations-other-than-war and peacetime contingencies to projecting decisive force into one or more major regional conflicts, simultaneously, to support a strategic war. The CRC deploys rapid reaction capability into a theater, then to forward locations within that theater, to establish autonomous and self-sufficient bases of operations. CRC elements accomplish five core competencies: theater air defense, datalink management, surveillance, identification and air battle execution. The CRC program provides the Joint Task Force/Joint Force Air Component Commander a deployable critical Theater Battle Management C2 capability to execute theater air operations with connectivity and interoperability among elements of the Theater Air Control System (TACS) within a designated Area of Interest (AOI) to include United States Air Force, Navy, Marine Corps, Army, and allied/coalition assets. It supports both the Active Duty and National Guard requirements.</p> <p style="margin-left: 40px;">a. MODULAR CONTROL EQUIPMENT (MCE) PRE-PLANNED PRODUCT IMPROVEMENTS (P3I) MCE UPGRADES: FY01 funding provided for ongoing P3I equipment upgrades, to include Operations Modules interface kits, installation site support and computer based operator training. No FY02 funding requested. FY03 funding will continue the P3I evolutionary upgrades.</p> <p style="margin-left: 40px;">b. AN/TPS-75 EQUIPMENT IMPROVEMENT/UPGRADES: No FY03 funding is requested.</p>								
	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 32		Page 1 of 3			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT			
<b>Description (continued):</b>					
<p>c. AN/TYQ-23 MODULAR CONTROL EQUIPMENT (MCE): In FY02, Congress added \$10.5 million for the AN/TYQ-23 MCE operations modules for the ANG. Reference Appropriation Conference Report 107-350, Dec. 19, 2001, page 293.</p>					
<p>2. AIR FORCE MISSION SUPPORT SYSTEM (AFMSS): This program provides a suite of mission planning systems that can be integrated with Theater Battle Management (TBM) systems for aircrews to electronically receive tasking orders, intelligence information, and imagery; prepare and calculate flight and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predictions); and electronically transfer this information to the aircraft and weapons. These systems increase the combat effectiveness of Air Force (active duty, guard, and reserve forces) aircraft and weapons by increasing wartime sortie rates, supporting sophisticated avionics and precision/autonomous guided munitions, and providing the ability to analyze and defeat complex threats. The program procures Unix-based mission planning workstations and PC-based mission planning workstations as well as engineering support to meet the varied requirements of Combat Air Forces and Air Mobility Command platforms. These systems provide a flexible, configurable, and cost effective range of increasing capability to meet the continuum of peacetime, contingency, and wartime mission planning requirements. The AFMSS program recently made a shift in the mission planning hardware emphasis from a small number of large, complex planning systems to a larger number of smaller, more personal planning devices tailored to the users' needs. These adjustments were made for the following technologically-driven reasons: the evolutionary nature of the AFMSS mission requires hardware changes to meet overall system requirements; advances in commercial-off-the-shelf (COTS) technology makes available new capabilities which may lower component costs or address component obsolescence; and changes in number, type, and deployment of aircraft/weapons require changes in the number and mix of Unix-based and PC-based mission planning computers and their concept of operation. Each year, a variety of hardware platforms will be procured to meet the varied needs of the Air Force mission planners. Market surveys and analysis of COTS products support procurement decisions.</p>					
a. MISSION PLANNING SYSTEM (MPS): No FY03 funding requested.					
b. MPS UPGRADES: No FY03 funding requested.					
c. PORTABLE FLIGHT PLANNING SOFTWARE-RUGGEDIZED (PFPS-R): No FY03 funding requested.					
	<b>P-1 ITEM NO</b> 38		<b>PAGE NO:</b> 33		Page 2 of 3

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER AIR CONTROL SYSTEM IMPROVEMENT	
<b>Description (continued):</b>  d. PFPS-NON-RUGGEDIZED (PFPS-NR): No FY03 funding requested.  e. UNIX-BASED MISSION PLANNING COMPUTER (UMPC): UMPC consists of a transportable, network-capable system integrated with AFMSS MPS software to provide basic mission planning capability as well as mission planning for precision guided munitions, large data storage, and full interoperability with TBM systems. Additionally, color laser printers are included with the system to allow the user to produce charts and other mission-specific products. FY02/03 funding will procure these systems and associated hardware.  f. PC-BASED MISSION PLANNING COMPUTER (PMPC): PMPC consists of a portable, tailorable, network-capable system integrated with AFMSS PFPS software to provide basic mission planning capability, large data storage, and full interoperability with TBM systems. PMPCs can also be networked with UMPCs to further tailor a platform's mission planning environment. Additionally, color laser printers are included with the system to allow the user to produce charts and other mission-specific products. FY02 funding procures these systems and associated hardware. FY03 funding will continue procurement of these systems and associated hardware, as well as software licenses associated with the Joint Mission Planning System (JMPS).  g. PROGRAM/ENGINEERING SUPPORT: FY01-03 funding continues program/engineering support for AFMSS.			
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)							DATE: FEBRUARY 2002						
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT							P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENT						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. GROUND THEATER AIR CONTROL SYSTEM (GTACS)						{2,030}			{10,500}			{3,295}	
A. MCE P3I/UPGRADES	A					1,332						3,295	
B. AN/TPS-75 EQUIP IMPROVEMENT/UPGRADES	A					698							
C. AN/TYQ-23 MCE FOR ANG	A								10,500				
2. AIR FORCE MISSION PLANNING SYSTEM (AFMSS)						{12,702}			{8,921}			{13,418}	
A. MISSION PLANNING SYSTEM (MPS)	A					1,728							
B. MPS UPGRADES	A					287							
C. PORTABLE FLIGHT PLANNING SOFTWARE RUGGEDIZED (PFPS-R)	A					6,599							
D. PFPS-NON-RUGGEDIZED (NR)	A					2,118							
E. UNIX-BASED MISSION PLANNING COMPUTER (UMPC)	A								3,315			3,731	
F. PC-BASED MISSION PLANNING COMPUTER (PMPD)	A								4,655			8,096	
G. PROGRAM/ENGINEERING SUPPORT						1,970			951			1,591	
<b>TOTALS:</b>						14,732			19,421			16,713	
<b>REMARKS:</b>													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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. GROUND THEATER AIR CONTROL SYSTEM (GTACS)										
A. MCE P31/UPGRADES (1)										
FY01			AFMC/ESC	OTH/OTH (2)	MULTIPLE	FEB 01	JUL 01			
FY03			AFMC/ESC	OTH/OTH (2)	MULTIPLE	FEB 03	AUG 03	Y		
B. AN/TPS-75 EQUIP IMPROVEMENT/UPGRADES										
FY01			AFMC/OO-ALC	C/FFP	RAYTHEON, FULLERTON, CA	APR 01	NOV 01			
C. AN/TYQ-23 MCE FOR ANG										
FY02			AFMC/ESC	OTH/OTH (2)	MULTIPLE	NOV 01	AUG 02			
2. AIR FORCE MISSION PLANNING SYSTEM (AFMSS)										
A. MISSION PLANNING SYSTEM (MPS) (1)										
FY01			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 00	FEB 01			
B. MPS UPGRADES										
FY01			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 00	FEB 01			
C. PORTABLE FLIGHT PLANNING SOFTWARE RUGGEDIZED (PFPS-R) (1)										
FY01			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 00	MAR 01			
D. PFPS-NON-RUGGEDIZED (NR) (1)										
FY01			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 00	FEB 01			
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
E. UNIX-BASED MISSION PLANNING COMPUTER (UMPC) (1)										
FY02			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 01	FEB 02			
FY03			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 02	MAR 03	Y		
F. PC-BASED MISSION PLANNING COMPUTER (PMPC) (1)										
FY02			AFMC/ESC	OPT/FFP	MULTIPLE (3)	DEC 01	MAR 02			
FY03			AFMC/ESC	OPT/FFP	MULTIPLE (3)	NOV 02	MAR 03	Y		
<b>REMARKS:</b> (1) Quantity and unit cost vary because of different types/configuration of equipment being procured or equipment procured is site specific. (2) Various contract methods and types will be utilized. Examples of contractors include Litton Data Systems, Agoura Hills, CA; Scientech, Inc. Idaho Falls, ID; Lear Seigler Services, Annapolis, MD; and Motorola, Inc., Scottsdale, AZ. Award/delivery dates reflect date of first award and delivery. (3) AFMSS components are procured as commercial-off-the-shelf equipment available through various contract sources, e.g. GSA, IDIQ contracts, blanket purchase agreements. Examples of contractors including Beyond Technology (BTG), Fairfax VA; Government Technology Services, Inc (GTSI), Chantilly VA; and Tracor Enterprise solutions, Reston, VA. Award/delivery dates reflect date of first award and delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION/FORECAST				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$26,519	\$33,531	\$29,071	\$22,642	\$23,063	\$23,451	\$23,928
<p><b>Description:</b></p> <p>This is a continuing program for acquisition of meteorological and space environmental equipment supporting the global missions of the Air Force (AF), Army, Special Operations Forces, unified commands, and other government agencies. Fixed and transportable equipment will provide observing and forecasting capabilities at in-garrison and deployed locations for support of the Expeditionary Aerospace Force (EAF). Weather system technological upgrades have emerged as critical for support of modern air combat operations. These systems enhance the lethality of Air Force weapon systems and precision munitions by accurately predicting weather to provide optimal targeting conditions and to ensure effective bomb damage assessment.</p> <p>Air Force Weather (AFW) programs are aligned under the five core competency areas of weather data collection, forecasting, product tailoring/warfighter applications, weather data analysis, and dissemination as described in the AFW Mission Support Plan. Through this alignment, AFW ensures an integrated and systems-oriented approach to program management decisions.</p> <p>1. <b>WEATHER DATA COLLECTION:</b> Combines weather radars and meteorological sensors into an integrated meteorological sensing and instrumentation approach for battlefield and in-garrison operations. Components include the following capabilities:</p> <ul style="list-style-type: none"> <li>a. <b>TACTICAL WEATHER RADAR (TWR):</b> No FY03 funding is requested.</li> <li>b. <b>OBSERVING SYSTEM 21ST CENTURY (OS-21):</b> Provides state-of-the-art life-cycle replacement through off-the-shelf acquisition for weather observing/sensor equipment approaching 20 years old. OS-21 includes five different configurations: fixed, deployable, remote, manual, and upper air. FY01-03 funding procures fixed, in-garrison weather observing/sensor systems.</li> <li>c. <b>SMALL TACTICAL TERMINAL (STT):</b> No FY03 funding is requested.</li> </ul>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION/FORECAST			
<b>Description (continued):</b>					
<p>2. WEATHER FORECASTING: Provides strategic, operational, and tactical level weather forecasting models and the computational capability needed to support worldwide military operations of the Air Force, Army, Special Operations Forces, and other government agencies. Hardware upgrades and replacements provide streamlined computer and communications architectures at forecast centers, ensuring weather system interoperability with Department of Defense (DoD) standard communications and command, control, communications, computers and intelligence (C4I) systems. Components include:</p> <ul style="list-style-type: none"><li>a. GLOBAL THEATER WEATHER ANALYSIS AND PREDICTION SYSTEM (GTWAPS): No FY03 funding is requested.</li><li>b. SPACE WEATHER ANALYSIS AND FORECAST SYSTEM (SWAFS): No FY03 funding is requested.</li></ul>					
<p>3. PRODUCT TAILORING/WARFIGHTER APPLICATIONS: Provides operational weather support to warfighters at the theater and tactical levels. At the theater level, Operational Weather Squadrons (OWSs) provide timely, focused, fine-scale weather products and services to support operational commanders within a given Area of Responsibility. At the tactical level, Combat Weather Teams (CWTs) [formerly named Weather Flight/Detachments (WF/Dets)] provide front-line weather information to AF and Army warfighters in direct support of combat operations. CWTs operate at both in-garrison and deployed locations. FY01-03 funding procures integrated computer hardware and software suites and associated communications interfaces for operational weather support at fixed and deployed AF and Army locations in the Continental United States and overseas.</p>					
<p>4. WEATHER DATA ANALYSIS: Implements AFW Reengineering at the strategic level. AFW Strategic Centers provide global-scale atmospheric data and forecast and analysis products required by regional OWSs and CWTs for AF and Army customers worldwide. Other customers for global products include DoD and Department of Commerce agencies and national programs. FY01 funding purchased engineering management services to produce systems specification technical documentation. This documentation is necessary to support development of the Technical Requirements Document and the Request for Proposal. FY02 funding procures computer hardware for unclassified and classified environments, enterprise database and data management software, and upgrades to the internal communications network to support modernization of the AFWA strategic center communications and data infrastructure. FY03 funding will procure computer</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION/FORECAST			
<b>Description (continued):</b> hardware and associated integration software and communications interfaces for database expansion and ingest of weather satellite data.  5. WEATHER DATA DISSEMINATION: Provides for timely and reliable transmission of weather data and products to intermediate and end users through both intra- and internets while ensuring data integrity and continuity of service. Ensures data formats and transmission protocols conform to Joint Technical Architecture (JTA) standards for integration into the warfighter's Command and Control and mission planning and rehearsal systems. FY03 funding will procure commercial off-the-shelf computer hardware and software and associated communications equipment.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
1. WEATHER DATA COLLECTION							{13,359}			{18,196}			{14,832}	
A. TWR							{4,197}							
PRIME MISSION EQUIPMENT (1)	A						3,437							
ENGR/PROGRAM MGT							760							
B. OS-21							{7,362}			{17,496}			{14,832}	
PRIME MISSION EQUIPMENT (1)	A						5,727			13,429			11,795	
ENGR/PROGRAM MGT							1,635			4,067			3,037	
C. SMALL TACTICAL TERMINAL (STT)							{1,800}			{700}				
PRIME MISSION EQUIPMENT	A						1,505			542				
ENGR/PROGRAM MGT							295			158				
2. WEATHER FORECASTING							{3,981}							
A. GTWAPS							{2,000}							
PRIME MISSION EQUIPMENT (1) (2)	A						2,000							

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
B. SWAFS							{1,981}							
PRIME MISSION EQUIPMENT (1)	A						1,773							
ENGR/PROGRAM MGT							208							
3. PRODUCT TAILORING & WARFIGHTER APPLICATIONS							{8,037}			{6,139}			{8,256}	
PRIME MISSION EQUIPMENT (1)	A						7,204			4,308			6,440	
ENGR/PROGRAM MGT							833			1,831			1,816	
4. WEATHER DATA ANALYSIS							{1,142}			{9,196}			{4,943}	
PRIME MISSION EQUIPMENT (1)	A									7,976			4,195	
ENGR/PROGRAM MGT							1,142			1,220			748	
5. WEATHER DATA DISSEMINATION													{1,040}	
PRIME MISSION EQUIPMENT (1)	A												1,040	
<b>TOTALS:</b>							26,519			33,531			29,071	
<b>REMARKS:</b>														
(1) Prime Mission Equipment (PME) line includes Tech Data.														
(2) PME line includes Engineering/Program Management.														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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. WEATHER DATA COLLECTION										
A. TWR (1)										
FY01			AFMC/ESC	MIPR/OTH/OTH (2)	NAVY/RAYTHEON, INDIANAPOLIS, IN	NOV 00	APR 01			
B. OS-21 (1)										
FY01			AFMC/ESC	C/IDIQ	COASTAL ENVIRONMENTAL SYSTEMS, SEATTLE, WA	AUG 01	JUN 02			
FY02			AFMC/ESC	C/IDIQ	COASTAL ENVIRONMENTAL SYSTEMS, SEATTLE, WA	MAY 02	AUG 02	Y		
FY03			AFMC/ESC	C/IDIQ	COASTAL ENVIRONMENTAL SYSTEMS, SEATTLE, WA	NOV 02	FEB 03	Y		
C. STT (1)										
FY01			AFSPC/SMC	OPT/FFP (3)	HARRIS CORP, MELBOURNE, FL	DEC 00	JUN 01			
FY02			AFSPC/SMC	OPT/FFP (3)	HARRIS CORP, MELBOURNE, FL	DEC 01	JUN 02			
2. WEATHER FORECASTING										
A. GTWAPS (1)										
FY01			AFMC/ESC	OPT/FFP (4)	TRW, BELLEVUE, NE	DEC 00	MAR 01			
B. SWAFS (1)										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
FY01			AFSPC/SMC	MIPR/FP	GSA, KANSAS CITY, MO/AEROSPACE CORP, EL SEGUNDO, CA	JAN 01	MAY 01			
3. PRODUCT TAILORING & WARFIGHTER APPLICATIONS (1)										
FY01			AFMC/ESC	OPT/OTH (5)	MULTIPLE	MAR 01	JUN 01			
FY02			AFMC/ESC	OPT/OTH (5)	MULTIPLE	NOV 01	JAN 02			
FY03			AFMC/ESC	OPT/OTH (5)	MULTIPLE	NOV 02	FEB 03	Y		
4. WEATHER DATA ANALYSIS (1)										
FY02			AFMC/ESC	C/CPFF	UNKNOWN	APR 02	SEP 02	Y		
FY03			AFMC/ESC	C/CPFF	UNKNOWN	MAR 03	AUG 03	Y		
5. WEATHER DATA DISSEMINATION (1)										
FY03			HQ AFWA	MIPR/FP	GSA, KANSAS CITY, MO	JAN 03	AUG 03	N	OCT 02	
<b>REMARKS:</b> 1. Quantity and unit cost vary due to site specific configurations. 2. Delivery order on U. S. Navy contract to Raytheon, Indianapolis, IN. Contract type is Time and Materials. 3. Option to Harris contract awarded Jun 94. 4. TRW, Redondo Beach, CA selected through pre-competed Command and Control Product Line (CCPL) contract vehicle. Contract to TRW was awarded Oct										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> WEATHER OBSERVATION/FORECAST						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
<p>97. TRW, Redondo Beach, delegated GTWAPS project to TRW, Bellevue, NE.</p> <p>5. Multiple contractors: Command and Control Product Line (CCPL) is a pre-competed contract vehicle that was awarded Feb 97. Contractors: TRW, Redondo Beach, CA and Raytheon, Fullerton, CA. Also Information Technology Contract with General Dynamics through GSA Kansas City, MO. Award and delivery dates reflect first contract award date and delivery date.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$20,189	\$20,930	\$23,889	\$25,494	\$25,695	\$24,965	\$26,449
<p><b>Description:</b></p> <p>The Strategic Command and Control program procures mission critical communications and computer systems required to ensure 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. Additionally, the program supports life-cycle replacement of outdated and unreliable communications equipment in support of the B-2 Program.</p> <p>1. <b>NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES):</b> NPES is the single, survivable national command and control (C2) automated information system (AIS) supporting the President, Secretary of Defense, Joint Staff, and nuclear Commanders-in-Chief (CINCs) in the transition/post phases of nuclear conflict. The NPES requirement includes fixed command center and mobile applications. This funding covers only the fixed command center and mobile (non-aircraft) applications. Prior year funding has provided operational suites. FY02 funding procures the hardware for the NPES software development systems. FY03 funding will procure an NPES software test suite (hardware) supporting Formal Qualification Testing (FQT) and follow-on software maintenance.</p> <p>2. <b>MOBILE CONSOLIDATED COMMAND CENTER (MCCC):</b> The United States Strategic Command (USSTRATCOM) Mobile Consolidated Command Center (MCCC), Offutt AFB, NE provides contingency communications capable of accomplishing all CINC command and control, reconstitution and continuity of operations missions in the event primary C2 facilities are incapacitated. FY01/02 funding continues the multi-year Radio Frequency (RF) Databus replacement. FY02 funding also supports replacement/upgrade of other critical components. These include remaining High Frequency/Ultra High Frequency (HF/UHF) radios, message switching, Global Command and Control System (GCCS) and GCCS-Top Secret (GCCS-T), Global Broadcast System (GBS) and a second MILSTAR terminal with a trailerized antenna. Improvements to data/message transfer capability are also funded in FY02. FY03 funds will continue to modernize the platform with enhancements to the message system, power system and beyond line of sight communications. In addition, these funds will provide for weather</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b> system replacement and the integration of command and control systems. FY03 will also see the completion of system and radio upgrades as well as telephone switch integration.					
<p>3. C2 MODERNIZATION: USSTRATCOM's Command and Control (C2) Modernization is a program for employing a set of underlying information services, technologies, and tools that enable the Commander-in-Chief, United States Strategic Command (CINCSTRAT) to achieve the broad operational warfighting capabilities described in Joint Vision 2020. This is a spiral development effort visualized as a collection of distributed databases and applications, integrated through a grid of supporting services. C2 Modernization provides the hardware to acquire, process and deliver information, as needed, to enhance decision-making. FY02 funds begin the procurement of servers and associated hardware for the Collaboration Environment, Command Enterprise Database architecture, MultiSecure Level/Multi Level Secure(MSL/MLS) environment, Fused Battlespace View (FBV) project, Command Enterprise Database (EDB), Access &amp; Security architecture, and Force Status/Readiness project. Test servers, desktops with storage area network (SAN) storage, and network equipment for the STRATCOM Integration Lab (SIL) contractors to integrate and interface STRATCOM systems with external databases are also included in FY02 funding. FY02 funds also procure the Decision Support project servers, desktops, SAN storage and network equipment for the next version of the Knowledge Wall that presents integrated data in the SIL. Similar to the accomplishments of FY02 in the Secret environment, FY03 will begin procurement of a complimentary infrastructure within the Top Secret-Single Integrated Operational Plan (TS-SIOP) environment. FY03 increment procures high availability mid-tier servers to provide a centralized platform for C2 mission applications and associated services. This includes the ability to support a synchronized flow of information from the Secret environment to the TS-SIOP environment. FY03 will also begin Spiral 2 of the FBV in both the Secret and TS-SIOP networks. Integration planning and early integration activities will also move toward encompassing the STRATCOM mobile environment.</p>					
<p>4. STRATEGIC WAR PLANNING SYSTEM (SWPS): Funding continues the phased modernization, sustainment 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.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL			
<b>Description (continued):</b> USSTRATCOM developed a hardware life-cycle replacement plan to replace servers, storage devices, workstations, PCs and network upgrades over multiple years. This life-cycle replacement plan eliminates the peaks and valleys to better utilize existing manpower to install and configure the replacement hardware. Thus providing an incremental and manageable life-cycle replacement of critical infrastructure components. <ul style="list-style-type: none"><li>- FY01/02 funding procures the network infrastructure upgrade (e.g., routers, hubs, cabling, servers and blades required to meet Full Operational Capability (FOC).</li><li>- FY01-03 funding procures the server and high availability storage arrays replacement project.</li><li>- A major PC life-cycle refreshment began in FY01 and will be completed in FY02.</li><li>- FY02/03 funds begin procurement of the next iteration of the life-cycle workstation (UNIX platform) replacement.</li></ul>					
5. 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: <ul style="list-style-type: none"><li>a. ENGINEERING DATA SYSTEMS (EDS): EDS provides engineers with specialized computers for on-line access to B-2 aircraft data. This data consists of items such as engineering analysis, manufacturing data, aircraft designs, and software documentation to help solve technical issues on B-2 aircraft in the field, which are integral to strategic C2. Locations with EDS computers include: Langley AFB, VA; Whiteman AFB, MO; Wright-Patterson AFB, OH; Oklahoma City Air Logistics Center, OK; and Northrop Grumman Corp in CA. FY02 funds will upgrade EDS servers (total of 12) and peripheral equipment to support Windows 200X technology. FY03 funds will also continue procurement and installation of backbone infrastructure hardware and software required to conduct communications in the B-2 community, and to manage and distribute B-2 technical data (drawings, engineering data, etc) and buying commercial-off-the-shelf (COTS) products to integrate them with existing systems. This includes data link infrastructure.</li><li>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 will be accomplished and tested with the</li></ul>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL		
<b>Description (continued):</b> use of the WSSC's Software Development System (SDS), an integration and test computer laboratory complex, by analyzing and designing fixes to existing aircraft software. FY01-03 funding continues the replacement of computer upgrades and enhancements to existing computer equipment (i.e. computer hardware, terminals, printers, disk and tape drives, workstations, commercial software, etc.) at existing subcontractor software laboratories relocated as part of the long-term software support effort.				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT					<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	A				\$200		\$259		\$158	
2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A				\$1,547		\$4,577		\$5,545	
3. C2 MODERNIZATION	A						\$2,204		\$1,942	
4. STRATEGIC WAR PLANNING SYSTEM (SWPS)	A				\$12,399		\$5,611		\$8,640	
5. B-2 SUPPORT					\${6,043}		\${8,279}		\${7,604}	
A. ENGINEERING DATA SYSTEMS (EDS)	A				\$1,471		\$4,350		\$3,749	
B. WEAPON SYSTEM SUPPORT CENTER (WSSC)	A				\$4,572		\$3,929		\$3,855	
<b>Totals:</b>					\$20,189		\$20,930		\$23,889	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 40				<b>PAGE NO:</b> 50			

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> STRATEGIC COMMAND AND CONTROL						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
<b>1. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)</b>										
FY01 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 00	JAN 01			
FY02 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 01	JAN 02			
FY03 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	NOV 02	JAN 03	Y		
<b>2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC)</b>										
FY01 (1)			AFMC/ESC	OPT (3)/CPAF	JAYCOR, ALBUQUERQUE, NM	OCT 00	JAN 01			
FY02 (1)			AFMC/ESC	OPT (3)/CPAF	JAYCOR, ALBUQUERQUE, NM	OCT 01	JAN 02			
FY03 (1)			AFMC/ESC	OPT (3)/CPAF	JAYCOR, ALBUQUERQUE, NM	OCT 02	JAN 03	Y		
<b>3. C2 MODERNIZATION</b>										
FY02 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	JAN 02	FEB 02			
FY03 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	JAN 03	FEB 03	Y		
<b>4. STRATEGIC WAR PLANNING SYSTEM (SWPS)</b>										
FY01 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	JAN 01	FEB 01			
FY02 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	APR 02	MAY 02	N	FEB 02	
FY03 (1)			USSTRATCOM	C/FP	MULTIPLE (2)	JAN 03	FEB 03	N	DEC 02	
<b>5. B-2 SUPPORT</b>										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
A. ENGINEERING DATA SYSTEMS (EDS)										
FY01 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	MAR 01	APR 01			
FY02 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	NOV 01	DEC 01			
FY03 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	MAR 03	APR 03	Y		
B. WEAPON SYSTEM SUPPORT CENTER (WSSC)										
FY01 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	JUL 01	JUL 01			
FY02 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	MAR 02	JUL 02	Y		
FY03 (1)			AFMC/OC-ALC	C/FP	MULTIPLE (4)	MAR 03	JUL 03	Y		
<b>REMARKS:</b> (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; Storage Area Networks, Castle Rock, CO; and Gateway 2000, North Sioux City, SD. Award/delivery dates are the date of first contract award and delivery. (3) Jaycor contract first awarded June 1, 1995. (4) Procurement through various GSA contract sources and contractors. Contractors include: Transtel, Inc., Oklahoma City, OK; TRW, Oklahoma City, OK; Telos, Oklahoma City, OK; DEC Microsystems, Oklahoma City, OK; IBM, Oklahoma City, OK. Award/delivery dates are the date of first contract award and delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$597	\$30,429	\$17,588	\$15,238	\$14,379	\$15,808	\$15,225
<p><b>Description:</b></p> <p>This program supports acquisition for the Cheyenne Mountain Complex (CMC). Cheyenne Mountain Systems provide real-time ballistic missile warning, air defense, force management, battle management and command control and communications for the United States Space Command (USSPACECOM) and North American Air Defense (NORAD) missions. The program also provides Air Force Space Command (AFSPC) with communications and computer equipment in Defense Message System and Base Network Control Center, USSPACECOM Mobile Consolidated Command Center and the Cheyenne Mountain Training System.</p> <p>1. <b>COMMANDER-IN-CHIEF (CINC) MOBILE CONSOLIDATED COMMAND CENTERS (MCCCs):</b> The CINC MCCC provides contingency reconstitution and continuity of command capabilities to accomplish directed CINC missions in the event primary command and control facilities are incapacitated. FY02/03 funds upgrade the current messaging capability to keep in pace with the required communication capabilities, replace existing generators with a new power generation structure, upgrade communication systems, and replace mission recovery equipment. These new capabilities will significantly reduce the platform's footprint, enhance operations, and provide a source of an uninterruptable power supply.</p> <p>2. <b>TACTICAL WARNING/ATTACK ASSESSMENT (TW/AA) INTERFACE NETWORK:</b> No FY 03 funding requested.</p> <p>3. <b>NORAD CHEYENNE MOUNTAIN COMPLEX-TACTICAL WARNING/ATTACK ASSESSMENT (NCMC-TW/AA) SYSTEMS:</b> AFSPC approved an update to the Integrated Master Evolutionary Plan (IMEP) to better manage configuration control of legacy mission systems and manage Integrated Space Command and Control (ISC2) hardware and software migration. The various projects include:</p> <p>(a) <b>Integrated Space Command and Control (ISC2) Migration:</b> This project delivers ISC2 hardware and associated software to Cheyenne Mountain operating locations, to include remote interfacing sites essential for support to USSPACECOM and NORAD missions as exercised</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX			
<b>Description (continued):</b> from the Cheyenne Mountain Operations Center (CMOC) and forward operating locations. ISC2 Migration includes installation and check out actions for ISC2 components and interfaces within the CMOC, at sensor sites, at forward user sites, and at other command center locations. FY02 funds procure an application/database server that will be the foundation of the ISC2 Target System enterprise server infrastructure at Cheyenne Mountain, and will initially support a robust air mission capability with approximately twenty-eight Air Mission Evolution (AME) workstations. FY02 funds also procure client workstations as well as a communications processing system that will process and forward messages from sensor sites. FY03 funds will add seven additional client workstations at various forward locations. (b) Integrated Test, Training, and Exercise Facility: This project provides for the planning, delivery, installation, and support of commercial off-the-shelf (COTS) hardware and associated software which, together with developed and/or integrated software, will provide AFSPC the capability to conduct system integration and testing as well as operator training and exercises. FY02 funds procure application/data base servers to support AME integration and testing as well as the migration of additional mission areas to the enterprise infrastructure. FY02 funds also procure Communications Processing System equipment, to include servers, client workstations, installations and upgrades. (c) Missile Analysis and Reporting System (MARS): FY02 funds procure this project, which consists of a single architecture that provides both strategic and theater warning capabilities. The MARS project will deliver enhanced missile warning functionality by providing improved situational awareness, more timely and accurate assessments and will evolve to provide multi-source data correlation. This integrated approach to achieving a single integrated missile warning capability will extend from sensor to decision-maker, and will result in great efficiencies in assessments during crisis operations. MARS will provide a platform to further integrate Space Based Infrared Sensor, Ground-based Midcourse Missile Defense and other sensors. MARS will insure accuracy of predicted launch and impact points by correlating infrared spatial observation with radar observations. This DoD data will eliminate repetitive or redundant track reports and event messages, and will be distributed to the users faster than is currently accomplished today. It also will replace the current Integrated TW/AA Missile Warning System that is past its planned life cycle. (d) Temporary Command Center: FY03 funds will provide for the planning, engineering design and drawing preparation of the Temporary Command Center in addition to the coordination of work with CMOC and 721st Support Group staffs. This project will include preparation of the allocated floor space and equipping the Temporary Command Center with fully functional enterprise workstations and integrated communications suites for up to 15 personnel. FY04 funds will also provide for initial checkout, testing and certification for operation of ISC2 equipment, and cut-over of the CMOC mission functions from legacy systems in the current command center to the ISC2 temporary command center in preparation for eventual movement to the Objective Command Center beginning in FY05.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CHEYENNE MOUNTAIN COMPLEX					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. CINC MOBILE CONSOLIDATED COMMAND CENTER (MCCC)	A						\$2,961		\$3,775
2. TW/AA INTERFACE NETWORK	A				\$597		\$601		
3. NORAD CHEYENNE MOUNTAIN COMPLEX -TACTICAL WARNING/ATTACK ASSESSMENT SYSTEMS	A						\$26,867		\$13,813
<b>Totals:</b>					\$597		\$30,429		\$17,588
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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. CINC MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)										
FY02 (1)			AFMC/ESC	OPT(2)/CPAF	LOCKHEED MARTIN, COLORADO SPRINGS CO	OCT 01	FEB 02			
FY03 (1)			AFMC/ESC	OPT(2)/CPAF	LOCKHEED MARTIN, COLORADO SPRINGS CO	OCT 02	FEB 03	Y		
2. TW/AA INTERFACE NETWORK										
FY01 (1)			HQ AFSPC	OTH (3)/OTH	MULTIPLE	FEB 01	JUL 01			
FY02 (1)			HQ AFSPC	C/FP	UNKNOWN	OCT 01	FEB 02			
3. NCMC-TW/AA SYSTEMS										
FY02 (1)			AFMC/ESC	OPT(2)/CPAF	LOCKHEED MARTIN, COLORADO SPRINGS CO	OCT 01	FEB 02			
FY03 (1)			AFMC/ESC	OPT(2)/CPAF	LOCKHEED MARTIN, COLORADO SPRINGS CO	OCT 02	FEB 03	Y		
<b>REMARKS:</b> 1. Various quantities and unit costs due to different site configurations. 2. Option to basic contract awarded Feb 00 to Lockheed Martin, Colorado Springs, CO. 3. Contract method and type consists of a combination of sole source contracts and MIPRs. Contractors include Compax Federal LLC, Colorado Springs, CO and SI International Telecommunications Corp., Colorado Springs, CO. Award/delivery dates reflect date of first award and delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TACTICAL SIGINT SUPPORT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,659	\$969	\$406	\$401	\$401	\$431	\$439
<p><b>Description:</b></p> <p>In FY03, we anticipate receiving \$10 million from the Cost of War Transfer Account. These funds are not included in the baseline. Funding would be used to procure hardware and associated software, and engineering support for installation at Air Force intelligence community data storage sites.</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. Items procured in FY03 are identified on the attached P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <ol style="list-style-type: none"> <li>1. <b>SENSOR ACE PROGRAM IMPROVEMENTS:</b> This program procures specialized signals processing equipment and computer hardware for testing hardware and software algorithms designed to detect and exploit target nation proforma (machine-to-machine) signals. Rapid information age innovations highlight the criticality of modernizing proforma detection and processing equipment. Without accurate proforma data, situational awareness at all levels of command would degrade to an unacceptable level for security requirements. FY01-03 funding provides high speed digitizers for emerging higher data rates and pulsed signals in targeted countries.</li> <li>2. <b>TACTICAL ANALYSIS AND REPORTING PROGRAM (TARP) IMPROVEMENTS:</b> No FY03 funding is requested.</li> <li>3. <b>USAFE TACTICAL SUPPORT PROCESSOR:</b> No FY03 funding requested.</li> </ol>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: TACTICAL SIGINT SUPPORT									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003				
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
1. SENSOR ACE IMPROVEMENTS							{1,434}			{969}			{406}		
SIGNAL PROCESSORS	A						843			478			406		
2. TACTICAL ANALYSIS AND REPORTING PROGRAM (TARP) IMPROVEMENTS							{591}			{491}					
VIDEO PROCESSING EQUIPMENT	A						81			168					
COMPUTER EQUIPMENT	A						510			323					
3. USAFE TACTICAL SUPPORT PROCESSOR	A						225								
<b>TOTALS:</b>							1,659			969			406		
<b>REMARKS:</b> Quantity/unit costs vary according to the site and different types/configurations of equipment being procured.															
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGIES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$88,205	\$59,401	\$55,789	\$58,642	\$59,384	\$70,952	\$87,529
<p><b>Description:</b></p> <p>This program provides for commercially available automatic data processing equipment (ADPE) acquisitions and equipment additions to government-owned computer systems. Items to be purchased include: desktop computers and associated peripheral devices (keyboards, monitors, printers); file servers; local area networks; gateways; and routers. New systems and system upgrades directly support operational mission requirements. All programs in this line improve Air Force automated capabilities via specific hardware and software tools. Many support and enhance war fighting capability and all enhance productivity in support of Air Force weapon systems and personnel. Funds will support a standard system infrastructure allowing major commands to purchase computer equipment capabilities and quality networking. Items requested in FY03 are identified on the P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>In FY03 we anticipate receiving \$10.8 million from the Cost of War Transfer Account for the Integrated Broadcast Service (IBS). These funds are not included in the baseline. Funding would be used to procure IBS operational baseline and management consolidation &amp; integration enablers, including but not limited to servers, associated ancillary equipment and software licenses, translators/routers and other communications infrastructure hardware, and desktop workstations.</p> <p><b>11TH WING (11WG)</b></p> <p>1. HEADQUARTERS INFORMATION TECHNOLOGY (IT) INVESTMENT: FY01-03 funding provides 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. 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGIES			
<b>Description (continued):</b> USAF personnel will also receive centralized services such as business-quality electronic mail and network management through programs such as the Network File Sharing System. Other investments include World Wide Web services, remote computing services, and video teleconferencing.  2. HEADQUARTERS MAINFRAME SYSTEM SUPPORT: Numerous ADPE upgrades will be accomplished with FY01-03 funding. Magnetic tape systems will be upgraded to meet increasing data storage requirements and enhance the read/write capability and archival storage capacity. FY01-03 funding also addresses mainframe communications equipment upgrades in order to maintain computer system and network interface compatibility and provide ADPE technology user enhancements. Mainframe hardware upgrades meet required ADP technology enhancements for customers and maintain operating system and application software compatibility. Upgrades to open systems architecture meet mandated ADP enhancements and improve system performance capabilities. Computer operations equipment (hardware/software) will be updated to improve management of multiple ADP functions, and print output media systems will be enhanced to improve operational throughput capacity.  3. NATIONAL MILITARY COMMAND CENTER (NMCC): No FY03 funding requested.  4. TRANSPORTATION COORDINATORS-AUTOMATED INFORMATION FOR MOVEMENT SYSTEM II (TC-AIMS II): No FY03 funding requested.  5. FINANCIAL INFORMATION RESOURCE SYSTEM (FIRST): FY03 funds will procure hardware for deployment of the FIRST application, an effort aimed at providing an integrated, modern, seamless financial management system that enables authorized users from Air Staff to base level to plan, program, and execute their budgets. FIRST is ultimately envisioned to be the foundation for the AF's Planning, Programming and Budgeting System (PPBS). The system, which will be developed using the spiral development approach and integrated onto the GCSS-AF architecture, includes five increments: Acquire Accounting, Budget Formulation, Funds Management, Budget Execution, and Cost Modeling.  <b>AIR COMBAT COMMAND (ACC)</b>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGIES			
<b>Description (continued):</b>					
<p>6. BASE OPERATIONS: FY01-03 funds procure systems to build Part Task Trainers (PTT) for aircrew training. In-house fabrication of these trainers allows for a more timely and cost effective response to training requirements than having private industry produce small numbers of non-commercial use training devices.</p>					
<p>7. INTEGRATED BROADCAST SYSTEM (IBS): The IBS is a multi-sensor, multi-source integrated interactive dissemination capability which provides intelligence producers and information sources the means to massage and disseminate strategic, operational, and tactical intelligence information to the warfighter. The IBS Operational Baseline represents the migration, integration, and consolidation of existing tactical data dissemination capabilities to a common architecture and message format. The IBS will also provide an SCI network capability to permit coordination and tip-offs between intelligence producers and users. FY03 funds will begin procurement of basic hardware and associated software upgrades/licenses for the IBS operational baseline critical physical components which have become non-supportable.</p>					
<p>8. COMBINED AIR OPERATIONS CENTER-EXPERIMENTAL (CAOC-X): The CAOC-X at Langley AFB, VA supports air operations center (AOC) development efforts under the weapon system block construct. FY03 funding will begin procurement of communications-computer infrastructure components to accommodate spiral development and integration of capabilities into the AOC weapon system. FY03 funding will also procure instrumentation and test equipment to capture data on system, network, and operator performance during assessments.</p>					
<p>9. INTELLIGENCE SURVEILLANCE RECONNAISSANCE (ISR) MANAGER: The ISR Manager is a revolutionary approach for providing synergized planning, visualization, sensor control and exploitation of ISR assets in the theater. The ISR Manager provides time-critical-target support by shortening sensor-to-shooter "kill chain" inside the enemy's decision cycle. FY03 will fund equipment in support of fielding the ISR Manager, which will integrate the Air Operations Center with the Distributed Common Ground Systems.</p>					
<b>AIR EDUCATION AND TRAINING COMMAND (AETC)</b>					
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<b>Description (continued):</b>					
<p>10. TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS, formerly ADVANCED TRAINING SYSTEM (ATS)): FY03 funds will provide Automatic Data Processing Equipment modernization systems, to include workstations, servers, software, and secure communications for TTMS between the technical training bases and their respective field training detachments, operating locations, and basic military training organizations. TTMS is a tool for the management of all technical training students and resources, design &amp; development of courses, evaluation of training to include testing and critiques, and management of employee records. This hardware is required to meet advanced technical training requirements for 175,000 trainees per year in 20 different career fields.</p>					
<p>11. AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) EDUCATION AND RESEARCH SYSTEM (EARS): No FY03 funding requested.</p>					
<p>12. 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. FY01-03 funds continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality.</p>					
<p>13. 333rd TRAINING SQUADRON (TS) TECHNICAL REFRESH/EXPANSION: No FY03 funding requested.</p>					
<p>14. GENERAL SKILLS TRAINING (formerly known as Intelligence Training): No FY03 funding requested.</p>					
<p>15. AIR UNIVERSITY (AU): These funds will support efforts to migrate to the Air University (AU) Education Management System (EMS). EMS implements effective and efficient education information management practices at AU. EMS supports federal law, and compliance with Defense Information Infrastructure Common Operating Environment (DIICOE) directives. EMS encompasses the management of an information infrastructure targeting major common business processes (Student Administration-including registrar functions, Curriculum Management and Delivery and Resource Management) employed throughout AU. FY01-03 funds will establish information infrastructure (local networks and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation of war games (i.e., Tandem Challenge), and to provide information required to execute the education mission. The purchase of this enhanced hardware and</p>					
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> GENERAL INFORMATION TECHNOLOGIES			
<b>Description (continued):</b> associated software will improve the quality of professional military education provided to the war fighter.					
16. AIR FORCE RECRUITER INFORMATION SUPPORT SYSTEM (AFRISS): AFRISS is the Air Force's modernization program to replace the legacy system, Procurement Management Information System. FY01-03 funds purchase hardware and associated software necessary to automate and streamline the recruiting processes to provide improved integration with the Air Force Personnel Data System (PDS). AFRISS will provide the capability to process recruits much faster, an important capability in an increasingly competitive market. Additionally, FY03 funding will procure three telecommunications modules and other required enhancements necessary to support recruiting business practices. FY03 funding also supports critical recruiting business practices, applicant entry into active duty, and increased number of recruiters.					
<b>AIR FORCE COMMUNICATIONS AGENCY (AFCA)</b>					
17. KEESLER COMPUTER NETWORK TRAINING: FY01-03 funds will provide for the purchase of communications-computer equipment at Keesler AFB, MS, to meet training requirements for specialized computer operators and tech controllers. Funding will replace the current outdated network and tech control training equipment and provide vital remote training capability. Failure to provide funds in this area will weaken the professional skill level of computer operators maintaining AF networks, inhibiting the ability to properly manage and protect critical information systems vital to national security.					
<b>AIR FORCE MANPOWER &amp; INNOVATION AGENCY (AFMIA) (formerly called the Air Force Center for Quality and Management Innovation (AFCQMI))</b>					
18. MANPOWER DATA SYSTEM (MDS): FY01-03 funds will provide replacement/refreshment computer servers for every major command. MDS processes 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, the Air Force will be unable to					
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<b>Description (continued):</b> accomplish accurate and timely personnel assignments, recruiting projections, and training planning.					
<b>AIR FORCE MATERIEL COMMAND (AFMC)</b>					
<p>19. COMPREHENSIVE ENGINE TRENDING AND DIAGNOSTICS SYSTEM (CETADS) (formerly COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS)): CETADS, the USAF's Jet Engine Trending and Diagnostics System, supports the engine test software for the Air Forces' On-Condition Maintenance (OCM) Program. CETADS has been designated a mission-critical computer resource. CETADS is a stand-alone computer system, deployed at over 110 bases worldwide (Air Combat Command (ACC), Air Mobility Command (AMC), Air National Guard (ANG), Air Force Reserve Command (AFRC), Pacific Air Forces (PACAF), United States Air Forces in Europe (USAFE), Air Force Materiel Command (AFMC) and AETC) and currently supports 13 different types of jet engines. The CETADS information storage and retrieval system manages over 400,000 critical parts in the Air Force's large fleet of 22,000 active turbine engines. CETADS provides an invaluable tool at base level to discover, diagnose, and prevent engine problems. FY01-03 funds provide for continued CETADS upgrades, replacing outdated computers in the field with modern systems appropriate to manage engine analysis.</p>					
<p>20. COMPUTER RESOURCES SUPPORT IMPROVEMENT PROGRAM (CRSIP) (formerly EMBEDDED (COMPUTER RESOURCES) SUPPORT IMPROVEMENT PROGRAM (ESIP)): CRSIP utilizes specific hardware and software tools to improve the quality, productivity, and accessibility of weapon system software and minimize increasing backlogs of weapon system software requirements. CRSIP consists of three primary domains or tasks: Applied Research &amp; Development at the Air Force Research Lab (AFRL), Wright-Patterson AFB, OH; Software Technology Support at the Software Technology Support Center (STSC), Hill AFB, UT; and Software Readiness managed by the CRSIP program office at Hill AFB, UT. Standard configuration off-the-shelf hardware does not fulfill the requirements inherent in these functions. FY01-03 funds continues procurement of a wide range of special configurations of mini/macro computers and commercial/peculiar hardware devices essential for weapon system support.</p>					
<p>21. F-117A TACTICAL DATA PROCESSOR SUITE (TDPS): No FY03 funding requested.</p>					
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<b>Description (continued):</b>					
<p>22. NETWORK SERVICES (Formerly ENTERPRISE DATA INTEGRATION SYSTEM (EDIS)): Network Services expands EDIS' focus to include network infrastructure requirements through standardization, centralization/consolidation, proactive network management and defense in depth. FY01-03 funding provides information assurance software and Consolidated Network Control Center (CNCC) server hardware upgrades at highest priority AFMC bases.</p>					
<p>23. 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. FY01-03 funds procure computer hardware and associated peripheral equipment for the transition to WSMIS web-enabled capability Readiness Spares Packages (RSP), Computation and Assessment System (RCAS), and the Supportability Analysis Visibility (SAV) while also supporting legacy systems. Funds will satisfy new WSMIS decision support processes, and ensure these implementations maintain the foundation infrastructure to achieve DIICOE/Global Command and Control System (GCCS) compatibility.</p>					
<p>24 SPARE PARTS PRODUCTION AND REPROCUREMENT SYSTEM (SPARES): No FY03 funding requested.</p>					
<p>25. RELIABILITY AND MAINTAINABILITY MANAGEMENT INFORMATION SYSTEM (REMIS): In FY02, Congress added funds for \$3 million for this project. Reference Appropriations Conference Report 107-350, December 19, 2001, page 293. REMIS is a legacy system for maintaining equipment maintenance data that provides weapon system availability, trend analysis, and failure prediction information. FY02 funding purchases hardware and software conversion support for migration to the Global Combat Support System-AF framework.</p>					
<p>26. NATIONAL AIR AND SPACE MODEL (NASM): NASM is the USAF Modeling and Simulation (M&amp;S) program to develop the Air Force aerospace portion of the Joint Simulation System (JSIMS), allowing customization by other services for their Service-specific requirements. NASM will ensure the full range of AF aerospace roles and missions are accurately represented in JSIMS, including accurate portrayal of strategic and cascading effects. JSIMS will be the sole readiness training simulation used at service/joint simulation centers to train CINCS, Joint Task Force commanders, component commanders, and their staffs. FY01-03 funds provide processors, workstations, local network upgrades, simulation security hardware and test stations required at the Software Support Facility (SSF), Orlando, FL and the</p>					
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<b>Description (continued):</b> Command and Control Training and Innovation Group (C2TIG), Hurlburt Field, FL. FY03 also funds the Warrior Preparation Center (WPC) in Einsiedlerhof, Germany. Additionally, FY03 funds will provide NASM capability at a Joint Forces Command joint training event and achieve initial operating capability (IOC) for the JSIMS system in November 2002.  27. INTEGRATED MAINTENANCE DATA SYSTEM (IMDS): IMDS is an integrated information system for aircraft maintenance and communications-electronics. It will replace numerous legacy systems and interface with many others, cutting across multiple functions to provide the maintainers the ability to obtain the required information supporting their daily maintenance activities. Managers and commanders will be able to retrieve real-time equipment status from a single system instead of several. All IMDS data will be stored and processed via a central server located at Maxwell AFB, Gunter Annex, AL. FY01-03 funding purchases computer hardware, local area networks and servers, and software licenses in support of testing and fielding of IMDS.  28. EAGLE VISION: Eagle Vision is a family of systems that provide commercial imagery to operational commanders for mission planning, rehearsal, visualization, and intelligence gathering purposes. Eagle Vision is composed of the Data Acquisition System (DAS) and Data Ingest System (DIS). FY02/03 funds will support Eagle Vision (DAS and DIS) upgrades. These upgrades will support improved processing capability, additional satellite capabilities and baseline upgrades.  <b>AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)</b>  29. AFOSI COMPUTER NETWORK: The Air Force Office of Special Investigations (AFOSI) Communications and Information Directorate is responsible for centralized management of sensitive-but-classified (SBC), classified (CINet), and SCI computer and information management systems necessary to achieve the command's operational objectives in support of the AF and Office of the Secretary of Defense (OSD). FY02/03 funding will provide for the replacement of vital computer equipment to include servers and mass storage devices. This will enable AFOSI to stay current in IT technology supporting some 2000 agents world-wide and effectively process, track, and disseminate perishable investigative information to affected AF commanders and national level customers.					
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<b>Description (continued):</b>					
30. DEFENSE COMPUTER INVESTIGATION TRAINING PROGRAM WORKSTATION: The mission of the DoD Computer Forensic Laboratory (DCFL) is to maintain a joint DoD capability for counterintelligence, criminal, and fraud computer evidence processing. FY02/03 funds will procure media analysis workstations, peripherals, and software, all of which are essential tools for conducting computer forensics analysis. If new equipment is not funded, a state-of-the-art laboratory and schoolhouse cannot be maintained.					
<b>AIR FORCE PERSONNEL CENTER (AFPC)</b>					
31. PERSONNEL DATA SYSTEM (PDS): PDS encompasses personnel data processing from all current Active, Guard, and Reserve units. FY01-03 funding upgrades PDS by replacing two tiers of the legacy PDS systems. It consolidates two mainframe computing environments into a client-server, relational database system incorporating state-of-the-art transaction processing and reporting database technology and upgrading core components of the communications network and replacing current data storage architecture with a centralized redundant storage system.					
32. REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: FY01-03 funding continues to support PALACE COMPASS regionalization and modernization of 97 worldwide AF Civilian Personnel Operations (CPOs) and one Regional Service Center (RSC) at Randolph AFB, TX. The hardware associated with PALACE COMPASS implementation and the subsequent technology refresh support a variety of AF network applications such as: Personnel Process Improvements (PPIs), Oracle HR (Modern Defense Civilian Personnel Data System), Personnel Automated Records Information System (PARIS), Civilian Personnel Decision Support System (CPDSS), Employee Benefits and Information System (EBIS), Interactive Voice Response System (IVRS) and RESUMIX.					
<b>AIR INTELLIGENCE AGENCY</b>					
33. TAILORED INTELLIGENCE MATERIALS PRODUCTION PROGRAM: This program procures hardware and software necessary to provide aircrews with worldwide virtual intelligence mission planning capabilities. FY01-03 funds will continue expansion of high speed classified data transfer capability for tailored intelligence production at the 20th Intelligence Squadron, Offutt AFB, NE, and the 27th Intelligence Squadron, Langley AFB, VA.					
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<b>Description (continued):</b>					
<b>US AIR FORCE ACADEMY (USAFA)</b>					
34. AIR FORCE ACADEMY COMPUTER SUPPORT: FY01-03 funding continues the modernization of the Cadet Administrative Management Information System (CAMIS) from the legacy platform to an upgraded platform supporting migration to Windows NT. CAMIS supports all facets of student management.					
<b>UNITED STATES AIR FORCES EUROPE (USAFE)</b>					
35. INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): This project provides continued equipment upgrades for USAFE intelligence ADP systems and communications networks. FY01-03 funds will upgrade the 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.					
36. 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 have become too costly to repair. FY01-03 funds continue procurement of simulation workstations, terminal and peripheral equipment to meet USAFE mission needs.					
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<b>Description (continued):</b>					
<b>US SPACE COMMAND (USSPACECOM)</b>					
37. PETERSON AFB COMPUTER SUPPORT: No FY03 funding requested.					
<b>US STRATEGIC COMMAND (USSTRATCOM)</b>					
38. 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. FY01-03 funding continues infrastructure and component upgrades for network file servers, mail servers, and printer servers; stratus servers and Standard Query Language (SQL) servers; and gateways, hubs, routers and other associated network peripherals.					
<b>US TRANSPORTATION COMMAND (USTRANSCOM)</b>					
39. SCHEDULE DECISION SUPPORT SYSTEM (SDSS): No FY03 funding requested.					
<b>AIR FORCE SAFETY CENTER</b>					
40. AUTOMATED SAFETY SYSTEMS: FY03 funding will procure network hardware and provide for implementation of three safety programs AF wide -- the Automated System for Hazard Surveys (ASHS), Safety Automated System (SAS) and Avian Hazard Advisory System (AHAS). The AHAS combines the historical bird hazard information in the Bird Avoidance Model (BAM) with weather forecasts and radar data to provide near-real time bird hazard advisories. This system allow the safer utilization of airspace, previously restricted by the BAM, by more accurately identifying periods of increased bird hazards to routine low-level and range flight operations. The AF averages \$22 million annually in damage from bird strikes during low-level and range flight operations. AHAS will significantly reduce these annual losses, possibly					
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<p><b>Description (continued):</b></p> <p>as much as 60 percent. The SAS is a globally accessible web-based network for reporting and analyzing ground, flight &amp; weapons mishaps. This system will make data readily accessible to all authorized USAF and DoD personnel for mishap analysis, trending, prevention/risk management. The SAS will be key to hazard/risk assessments, mission planning, weapon system acquisition, and execution decision-making. The ASHS will automate explosives site planning. All AF explosives site plans must be updated by end of FY03 to incorporate new hazard classification requirements, and reaccomplished by the end of FY05 to obtain DoD Explosives Safety Board approval. ASHS and SAS are driven by DoD requirements.</p> <p><b>AIR FORCE SPACECOM/SPACE &amp; MISSILE CENTER</b></p> <p>41. RDT&amp;E SUPPORT COMPLEX (RSC)/CENTER FOR RESEARCH SUPPORT (CERES) UPGRADES: FY01-03 funding continues RSC/CERES computer and hardware upgrade efforts to improve the consolidated telemetry, tracking, and commanding (TT&amp;C) facilities at Kirtland AFB, NM and Schriever AFB, CO. Additionally, FY01-03 funding supports upgrades to worldwide deployable ground systems. The deployable ground systems support the space test research and readiness control mode, and interface with the Air Force Satellite Control Network (AFSCN) and other agencies in support of space system testing.</p>					
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
11 WG					\${22,305}		\${7,688}		\${10,782}
1. HQS IT INVESTMENT	A				\$14,499		\$7,365		\$8,970
2. HQS MAINFRAME SYS SPT	A				\$3,524		\$323		\$623
3. NMCC	A				\$484				
4. TC-AIMS II	A				\$3,798				
5. FIRST	A								\$1,189
ACC					\${250}		\${259}		\${4,468}
6. BASE OPERATIONS	A				\$250		\$259		\$259
7. IBS	A								\$2,819
8. CAOC-X	A								\$993
9. ISR MANAGER	A								\$397
AETC					\${16,549}		\${10,181}		\${7,709}
10. TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS)	A						\$2,960		\$1,153
11. AFIT EARS	A				\$578				
12. EDUCATION AND TRAINING TECH APPLICATIONS PRGM	A				\$1,878		\$1,863		\$2,498
13. 333RD TS TECH REFRESH/EXPANSION	A				\$409				
14. GENERAL SKILL TRAINING	A				\$8,239				
15. AU	A				\$1,639		\$1,749		\$1,125
16. AFRISS	A				\$3,806		\$3,609		\$2,933
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
AFCA					\${2,947}		\${1,653}		\${1,941}	
17. KEESLER COMPUTER NETWORK TRAINING	A				\$2,947		\$1,653		\$1,941	
AF MANPOWER & INNOVATION AGENCY (AFMIA)					\${717}		\${740}		\${506}	
18. MDS	A				\$717		\$740		\$506	
AFMC					\${18,389}		\${15,600}		\${12,232}	
19. CETADS	A				\$208		\$169		\$178	
20. CRSIP	A				\$2,138		\$2,312		\$2,069	
21. F-117A TDPS	A				\$2,242					
22. NETWORK SERVICES (EDIS)	A				\$560		\$310		\$327	
23. WSMIS	A				\$557		\$373		\$417	
24. SPARES	A				\$7,000					
25. REMIS	A						\$3,000			
26. NATIONAL AIR AND SPACE MODEL (NASM)	A				\$3,212		\$3,428		\$2,923	
27. INTEGRATED MAINTENCE DATA SYSTEM (IMDS)	A				\$2,472		\$2,612		\$2,570	
28. EAGLE VISION	A						\$3,396		\$3,748	
AFOSI							\${1,983}		\${2,540}	
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
29. AFOSI COMPUTER NETWORK	A						\$1,488		\$2,278
30. DEF COMPUTER INVESTIGATION TRNG PRGM WORKSTATION	A						\$495		\$262
AFPC					\${8,947}		\${9,365}		\${9,540}
31. PDS	A				\$1,499		\$1,498		\$1,518
32. REGIONALIZATION OF CIVILIAN PERSONNEL SPT	A				\$7,448		\$7,867		\$8,022
AIR INTELLIGENCE AGENCY					\${584}		\${625}		\${626}
33. TAILORED INTELLIGENCE MATERIALS PRODUCTION PRGM	A				\$584		\$625		\$626
USAFA					\${2,493}		\${2,860}		\${2,891}
34. USAFA COMPUTER SPT	A				\$2,493		\$2,860		\$2,891
USAFE					\${857}		\${1,093}		\${1,247}
35. INTELLIGENCE ADPE	A				\$318		\$552		\$702
36. WPC	A				\$539		\$541		\$545
USSPACECOM					\${12,512}		\${6,416}		
37. PETERSON AFB COMPUTER SUPPORT	A				\$12,512		\$6,416		
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
USSTRATCOM					\${551}		\${706}		\${777}	
38. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE	A				\$551		\$706		\$777	
USTRANSCOM					\${904}					
39. SCHEDULE DECISION SUPPORT SYSTEM (SDSS)	A				\$904					
AIR FORCE SAFETY CENTER									\${298}	
40. AUTOMATED SAFETY SYSTEMS	A								\$298	
AIR FORCE SPACE COMMAND/SPACE & MISSILE CENTER					\${200}		\${232}		\${232}	
41. RSC/CERES UPGRADES	A				\$200		\$232		\$232	
<b>Totals:</b>					\$88,205		\$59,401		\$55,789	
<b>Remarks:</b>										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: GENERAL INFORMATION TECHNOLOGIES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
11 WG (1)										
1. HQS IT INVESTMENT										
FY01			11WING	C/FP	MULTIPLE (2)	MAR 01	JUN 01			
FY02			11WING	C/FP	MULTIPLE (2)	MAR 02	JUN 02	Y		
FY03			11WING	C/FP	MULTIPLE (2)	MAR 03	JUN 03	Y		
2. HQS MAINFRAME SYS SPT										
FY01			11WING	C/FP	MULTIPLE (2)	MAR 01	JUL 01			
FY02			11WING	C/FP	MULTIPLE (2)	MAR 02	JUL 02	Y		
FY03			11WING	C/FP	MULTIPLE (2)	MAR 03	JUL 03	Y		
3. NMCC										
FY01			11WING	C/FP	MULTIPLE (2)	JAN 01	MAY 01			
4. TC-AIMS II										
FY01			11WING	C/FP	MULTIPLE (2)	JUN 01	AUG 01			
5. FIRST										
FY03			11WING	OPT (16)/CPAF	ACCENTURE, DAYTON, OHIO	OCT 02	MAR 03	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	
ACC (1)										
6. BASE OPERATIONS										
FY01			HQ ACC	C/FP	MULTIPLE (2)	MAY 01	AUG 01			
FY02			HQ ACC	C/FP	MULTIPLE (2)	MAY 02	AUG 02	Y		
FY03			HQ ACC	C/FP	MULTIPLE (2)	MAY 03	AUG 03	Y		
7. IBS										
FY03			HQ ACC	C/FFP	MULTIPLE (17)	DEC 02	MAY 03	N	JUN 02	
8. CAOC-X										
FY03			HQ ACC	OPT/IDIQ	GSA, MULTIPLE (18)	JAN 03	MAY 03	Y		
9. ISR MANAGER										
FY03			HQ ACC	OPT/IDIQ	GSA, MULTIPLE (18)	FEB 03	JUN 03	Y		
AETC (1)										
10. TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS)										
FY02			HQ AETC	C/FP	MULTIPLE (2)	MAR 02	MAY 02	Y		
FY03			HQ AETC	C/FP	MULTIPLE (2)	MAR 03	MAY 03	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	
11. AFIT EARS										
FY01			AFMC/ASC	C/FP	MULTIPLE (2)	FEB 01	APR 01			
12. EDUCATION AND TRAINING TECH APPLICATIONS PRGM										
FY01			HQ AETC	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
FY02			HQ AETC	C/FP	MULTIPLE (2)	JAN 02	MAR 02	Y		
FY03			HQ AETC	C/FP	MULTIPLE (2)	JAN 03	MAR 03	Y		
13. 333RD TS TECH REFRESH/EXPANSION										
FY01			HQ AETC	C/FP	MULTIPLE (2)	FEB 01	MAY 01			
14. GENERAL SKILL TRAINING										
FY01			HQ AETC	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
15. AU										
FY01			HQ AETC	C/FP	MULTIPLE (2)	DEC 00	FEB 01			
FY02			HQ AETC	C/FP	MULTIPLE (2)	NOV 01	JAN 02			
FY03			HQ AETC	C/FP	MULTIPLE (2)	JAN 02	JAN 03	Y		
16. AFRISS										
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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	
FY01			HQ AETC	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
FY02			HQ AETC	C/FP	MULTIPLE (2)	JAN 02	MAR 02			
FY03			HQ AETC	C/FP	MULTIPLE (2)	JAN 03	MAR 03	Y		
AFCA (1)										
17. KEESLER COMPUTER NETWORK TRAINING										
FY01			HQ AFCA	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
FY02			HQ AFCA	C/FP	MULTIPLE (2)	JAN 02	MAR 02			
FY03			HQ AFCA	C/FP	MULTIPLE (2)	JAN 03	MAR 03	Y		
AFMIA (1)										
18. MDS										
FY01			11WING	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
FY02			11WING	C/FP	MULTIPLE (2)	JAN 02	MAR 02			
FY03			11WING	C/FP	MULTIPLE (2)	JAN 03	MAR 03	Y		
AFMC (1)										
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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	
19. CETADS										
FY01			AFMC/SA-ALC	DO/FFP	GSA, SAN ANTONIO, TX	JUN 01	OCT 01			
FY02			AFMC/SA-ALC	DO/FFP	GSA, SAN ANTONIO, TX	DEC 01	MAR 02			
FY03			AFMC/SA-ALC	DO/FFP	GSA, SAN ANTIONIO, TX	DEC 02	MAR 03	Y		
20. CRSIP										
FY01			AFMC/ASC	DO/CPFF	MULTIPLE (3)	MAR 01	AUG 01			
FY02			AFMC/ASC	DO/CPFF	MULTIPLE (3)	MAR 02	AUG 02	Y		
FY03			AFMC/ASC	DO/CPFF	MULTIPLE (3)	MAR 03	AUG 03	Y		
21. F-117A TDPS										
FY01			AFMC/ASC	MIPR/CPFF	ARMY, FT BELVOIR, VA (14)	JUL 01	APR 02			
22. NETWORK SERVICES (EDIS)										
FY01			AFMC/ASC	MIPR/FFP	GSA, DIGITAL CONSULTING SERVICES, NEWBURY PARK, CA.	JAN 01	FEB 01			
FY02			AFMC/ASC	MIPR/FFP	GSA, DIGITAL CONSULTING SERVICES, NEWBURY PARK, CA.	JAN 02	FEB 02			
FY03			AFMC/ASC	MIPR/FFP	GSA, DIGITAL CONSULTING SERVICES, NEWBURY PARK, CA.	JAN 03	FEB 03	Y		
23. WSMIS										
FY01			AFMC/ASC	MIPR/FFP	DECC-D, DAYTON, WPAFB, OH (4)	JAN 01	APR 01			
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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	
FY02			AFMC/ASC	MIPR/FFP	DECC-D, DAYTON, WPAFB, OH (4)	FEB 02	APR 02	Y		
FY03			AFMC/ASC	MIPR/FFP	DECC-D, DAYTON, WPAFB, OH (4)	FEB 03	APR 03	Y		
24. SPARES										
FY01			AFMC/OO-ALC	MIPR/OTH (6)	GSA, ES3, SOLANA BEACH, CA	FEB 01	MAR 01			
25. REMIS										
FY02			AFMC/ESC	OPT(20)/IDIQ	NORTHROP GRUMMAN, BEAVERCREEK, OH	MAR 02	MAY 02	Y		
26. NATIONAL AIR AND SPACE MODEL (NASM)										
FY01			AFMC/ESC	OPT/CPFF	RAYTHEON, MARLBOROUGH, MA (7)	FEB 01	MAY 01			
FY02			AFMC/ESC	OPT/CPFF	RAYTHEON, MARLBOROUGH, MA (7)	DEC 02	MAR 03	Y		
FY03			AFMC/ESC	OPT/CPFF	RAYTHEON, MARLBOROUGH, MA (7)	OCT 03	JAN 04	Y		
27. INTEGRATED MAINTENCE DATA SYSTEM (IMDS)										
FY01			AFMC/SSG	OPT/FP	MULTIPLE (2)	FEB 01	APR 01			
FY02			AFMC/SSG	OPT/FP	MULTIPLE (2)	JAN 02	MAR 02			
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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	
FY03			AFMC/SSG	OPT/FP	MULTIPLE (2)	JAN 03	APR 03	Y		
28. EAGLE VISION										
FY02			AFMC/ESC	MIPR/FFP	MULTIPLE(8)	JUL 02	JUL 03	Y		
FY03			AFMC/ESC	MIPR/FFP	MULTIPLE(8)	JUL 03	AUG 03	Y		
AFOSI (1)										
29. AFOSI COMPUTER NETWORK										
FY02			11WING	OPT (9)/FP	FEDSIM, ALEXANDRIA, VA	JAN 02	MAY 02			
FY03			11WING	OPT (9)/FP	FEDSIM, ALEXANDRIA, VA	JAN 03	JAN 03	Y		
30. DEF COMPUTER INVESTIGATION TRNG PRGM WORKSTATION										
FY02			11WING	OPT (9)/FP	FEDSIM, ALEXANDRIA, VA	NOV 02	JAN 03	Y		
FY03			11WING	OPT (9)/FP	FEDSIM, ALEXANDRIA, VA	NOV 03	JAN 04	Y		
AFPC (1)										
31. PDS										
FY01			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 01	APR 01			
FY02			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 02	APR 02	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	
FY03			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 03	APR 03	Y		
32. REGIONALIZATION OF CIVILIAN PERSONNEL SPT										
FY01			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 01	JAN 01			
FY02			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 02	JAN 02	Y		
FY03			HQ AFPC	OPT/FP	MULTIPLE (10)	NOV 03	JAN 03	Y		
AIA (1)										
33. TAILORED INTELLIGENCE MATERIALS PRODUCTION PRGM										
FY01			HQ ACC	C/FP	MULTIPLE (11)	MAR 01	APR 01			
FY02			HQ ACC	C/FP	MULTIPLE (11)	JAN 02	MAR 02			
FY03			HQ ACC	C/FP	MULTIPLE (11)	FEB 03	FEB 03	Y		
USAFA (1)										
34. USAFA COMPUTER SPT										
FY01			HQ USAFA	C/FP	MULTIPLE (2)	FEB 01	APR 01			
FY02			HQ USAFA	C/FP	MULTIPLE (2)	FEB 02	APR 02	Y		
FY03			HQ USAFA	C/FP	MULTIPLE (2)	FEB 03	APR 03	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	
USAFE (1)										
35. INTELLIGENCE ADPE										
FY01			HQ USAFE	C/FP	MULTIPLE (2)	FEB 01	MAY 01			
FY02			HQ USAFE	C/FP	MULTIPLE (2)	FEB 02	MAY 02	Y		
FY03			HQ USAFE	C/FP	MULTIPLE (2)	FEB 03	MAY 03	Y		
36. WPC										
FY01			HQ USAFE	OPT/FP	GTE,WARNER-ROBINS AFB, GA (11)	FEB 01	MAY 01			
FY02			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS AFB, GA (11)	FEB 02	MAY 02	Y		
FY03			HQ USAFE	OPT/FP	GTE, WARNER-ROBINS AFB, GA (11)	FEB 03	MAY 03	Y		
USSPACECOM (1)										
37. PETERSON AFB COMPUTER SUPPORT										
FY01			HQ AFSPC	C/FP	MULTIPLE (2)	JAN 01	MAR 01			
FY02			HQ AFSPC	C/FP	MULTIPLE (2)	JAN 02	MAR 02	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	
USSTRATCOM (1)										
38. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE										
FY01			USSTRATCOM	C/FP	MULTIPLE (2)	FEB 01	MAR 01			
FY02			USSTRATCOM	C/FP	MULTIPLE (2)	FEB 02	MAR 02	Y		
FY03			USSTRATCOM	C/FP	MULTIPLE (2)	FEB 03	MAR 03	Y		
USTRANSCOM										
39. SCHEDULE DECISION SUPPORT SYSTEM (SDSS)										
FY01			HQ AMC	C/FFP	FEDERATED SOFTWARE GROUP, ST. LOUIS, MO	FEB 01	SEP 01			
AIR FORCE SAFETY AGENCY										
40. AUTOMATED SAFETY SYSTEMS										
FY03			11WING	MIPR/OTH	MULTIPLE (19)	NOV 02	JAN 03	Y		
AIR FORCE SPACE/SPACE & MISSILE CENTER										
41. RSC/CERES UPGRADES										
FY01			AFSPC/SMC	OPT/CPAF	LMMS, ALBUQUERQUE, NM (5)	APR 01	APR 01			
FY02			AFSPC/SMC	OPT/CPAF	LMMS, ALBUQUERQUE, NM (5)	OCT 02	OCT 02	Y		
FY03			AFSPC/SMC	OPT/CPAF	LMMS, ALBUQUERQUE, NM (5)	OCT 03	OCT 03	Y		
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<b>REMARKS:</b> 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; Comteq Federal, Rockville, MD; Comnet Sciences, Shearwater, NJ; Dynamix, Largo, MD; Compstore, Chantilly, VA; Pacific Radio Electronics, Hollywood, CA; Professional Products, Bethesda, MD; Newark Electronics, Bethesda, MD; and Logicon Tech, San Pedro, CA. Award/delivery dates reflect date of first award and delivery. 3. Delivery order options to FY97 cost plus fixed fee contracts awarded in Jun 1997 to Scientific Applications Corp (SAIC), San Diego, CA, in Jul 1997 to TRW, Dayton, OH, in May 1999 to Boeing, St. Louis, MO, and in Aug 99 Lockheed Martin, Ft. Worth, TX. 4. AFMC contracts through Defense Information System Agency (DISA)/Defense Mega Center (DMC) to General Services Administration (GSA), Washington, DC. 5. Option to 1996 cost plus award fee contract (CPAF) awarded to Lockheed Martin Western Development Laboratory (LMWDL), Albuquerque, NM. Name changed to Lockheed Martin Mission Systems (LMMS) in April 1999. 6. Time and materials contract. Delivery dates reflect date of first delivery. 7. Cost plus fixed fee options to basic contract awarded Mar 97. Award/delivery dates reflect date of first award and delivery. 8. Various contract methods and types of contracts will be used in to support Eagle Vision, Matra System & Information, Velizy, FR; ERIM International, Inc., Ann Arbor, MI; and other as yet unknown. Award/delivery date reflects date of first award and delivery. 9. Option to basic contract awarded May 00. 10. Options to multiple standard contracts including Desktop IV, Ulana, Super-Mini, Standard Multiuser Small Computer Requirements Contract (SMSCRC). Award/delivery dates reflect date of first award and delivery. 11. Multiple GSA schedule contractors including GTE Government Systems, Mountainview, CA; SAG/East Coast Electronics, North Andover, MA; General Dynamics Electronics Systems, Colorado Springs, CO; Gateway Inc., North Sioux City, SD; Federal Data Corporation, Bethesda, MD; Network Appliance Inc., Sunnyvale, CA; World Wide Technology Inc., Maryland Heights, MO. Award/delivery dates reflect date of first award and delivery. 12. Option to basic GTE contract awarded in Feb 97. 13. Options to multiple standard contracts with Autometric, Inc, Springfield, VA and Concurrent Technology Corp, Johnstown, PA. Award/delivery dates reflect date of first award and delivery. 14. The Procurement Contract Officer for the F-117 TDPS resides at Ft Belvoir, VA. Aeronautical System Center (ASC) will MIPR funds to Ft. Belvior, VA. The contractor will be determined through source selection. 15. Option to Lockheed Martin Mission Systems basic contract awarded April 01. 16. Option to basic contract awarded Apr 01. 17. Multiple possible contracting sources include Naval Research Laboratory, Washington, DC; GSA Kansas City; other GSA contracts as managed by the										
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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
<p>National Security Agency and the Naval Security Group. Actual contract award and delivery dates are TBD.</p> <p>18. Multiple contracts, to include GSA and Sun Microsystems, will be used. Award and delivery date reflect first date of award and delivery.</p> <p>19. Multiple MIPRS to be awarded to a variety of sources, to include GSA FEDSIM, Alexandria, VA; GSA, Ft Worth, TX; Smithsonian, Washington DC; and, AAC, Eglin AFB FL.</p> <p>20. Option to basic contract awarded Sep 00.</p>									
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$15,092	\$15,046	\$28,182	\$27,314	\$22,492	\$22,290	\$22,733
<p><b>Description:</b></p> <p>The Global Command &amp; Control System Air Force (GCCS-AF) program provides the common Air Force infrastructure and hardware necessary to pass Air Force command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components, servers, workstations, commercial-off-the-shelf (COTS) software and associated peripherals to provide users with the full suite of joint baseline capability (including the Common Operating Picture) and AF specific applications such as the Deliberate Crisis Action Planning &amp; Execution Segments (DCAPES), the Air Force's feed into the Joint Operations Planning and Execution System (JOPES). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, manpower, and logistics: Air Force-supported commanders-in-chief (CINCs), Headquarters United States Air Force (HQ USAF), major command (MAJCOM) headquarters, numbered air forces, wings, Air National Guard (ANG) bases, Air Force Reserve (AFR) bases and remote sites. Each site will comply with current Air Force and Department of Defense (DoD) network initiatives by employing a standardized interface among Air Force base-level classified C2 networks, Air Force base-level network control centers, and the joint Defense Information Systems Agency (DISA) Secret Internet Protocol Network (SIPRNET). This program provides a flexible open system, distributed C2 architecture necessary to support the client/server-based joint GCCS. GCCS supports Air Force Systems Networking (AFSN) operations by installing and upgrading a site's classified C2 network through extensive use of COTS technology that adheres to the Air Force command, control, communications and computer building codes and standards.</p> <p>Items for GCCS requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <ol style="list-style-type: none"> <li>1. AIR FORCE SYSTEMS NETWORKING (AFSN): No FY03 funding is requested.</li> <li>2. GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF) MODERNIZATION: This funding procures, integrates and</li> </ol>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM			
<b>Description (continued):</b> installs GCCS-AF at required AF-supported CINCs, active 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 GCCS-AF improvements. The classified communications infrastructure of the MAJCOM C2 facilities, e.g., command posts, will be modernized by installing state-of-the-art networking components for improved interoperability, data throughput, and system security.  - FY01 funds procured initial network infrastructure for multiple new sites; fielded GCCS-AF systems hardware at MAJCOM, AFR and ANG locations; expanded the GCCS architecture to include new functional users on each base; and provided initial technical refreshment of fielded hardware. Funds also procured software licenses and out year software support.  - FY02/03 funds continue to procure initial network infrastructure and equipment for multiple new sites and supports the deployment of the DCAPES. This expanded GCCS architecture includes new functional users on each base and specifically incorporates the manpower and logistics functions into GCCS. FY02/03 funds continue fielding of GCCS-AF systems (hardware, government-off-the-shelf (GOTS)/COTS software) at MAJCOM, ANG, and AFR locations providing a full spectrum of command, control, logistics, and intelligence capability from strategic to unit level operations with total joint service connectivity. This fielding is consistent with the AF's Air Expeditionary Force C2 structure and will allow for the continued integration of evolving C2 capabilities into the AF's operational framework. These funds will provide technical refreshment of fielded hardware, and procure software licenses and out year software support. Beginning in FY02, GCCS-AF provides funding for AFSN to support the installation of SIPRNET connections at designated sites.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE GLOBAL COMMAND & CONTROL SYSTEM					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AFSN	A				\$459				
2. GCCS-AF MODERNIZATION	A				\$14,633		\$15,046		\$28,182
<b>Totals:</b>					\$15,092		\$15,046		\$28,182
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 45				<b>PAGE NO:</b> 89		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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)										
FY01			AFMC/ESC	OPT/FFP	MULTIPLE (2)	OCT 00	DEC 00			
2. GCCS-AF MODERNIZATION (1)										
FY01			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY MO (3)	JAN 01	APR 01			
FY02			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY MO (3)	JAN 02	APR 03			
FY 03			AFMC/ESC	MIPR/IDIQ	GSA, KANSAS CITY MO (3)	JAN 03	APR 03	Y		
<b>REMARKS:</b> 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. Award/delivery dates reflect date of first award and delivery. 3. Multiple GSA contracts utilized: TRW, Carson, CA; EDS, Herndon, VA; World Wide Technology, St Louis, MO; and Mykotronix, Torrance, CA. Award/delivery dates reflect date of first award and delivery.										
		<b>P-1 ITEM NO</b> 45				<b>PAGE NO:</b> 90		Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$9,317	\$8,817	\$9,735	\$9,346	\$9,496	\$9,852	\$10,262
<p><b>Description:</b></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 provides the fiber optical backbone for base-wide multi-media connectivity to accomplish AMC's strategic missions. Items requested for FY03 are identified on the attached P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. <b>GLOBAL C2 ARCHITECTURE:</b> These funds continue AMC's integrated upgrade of C2 systems. The following are the specific details of FY01-03 AMC procurement:</p> <p style="margin-left: 20px;">a. <b>OBJECTIVE WING COMMAND POST (OWCP):</b> No FY03 funding requested</p> <p style="margin-left: 20px;">b. <b>LOCAL AREA NETWORK (LAN):</b> FY01-03 funding continues procurement of network equipment at each AMC base/unit to build an enhanced, robust and reliable command-wide intra-building networking infrastructure. This infrastructure will host critical 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. Upgrades keep pace with changing technology by constantly reassessing the needs of the war-fighter and obtaining the necessary LAN infrastructure needed to sustain current capabilities and implement new C2 systems.</p> <p style="margin-left: 20px;">c. <b>ADVANCED COMPUTER FLIGHT PLAN (ACFP):</b> The ACFP is a user-friendly, menu-driven, computer-generated flight planning C2 system, used to generate wind optimized flight plans for all MAJCOMs. FY01/02 funding provides increased 3-dimensional optimization</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL			
<b>Description (continued):</b> capabilities. FY03 funds will upgrade database servers to accommodate expanded data needed for accurate flight plan calculations.  d. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): The DSATCOM program constitutes 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 procurements 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. FY01-03 funds will complete Deployable Rapidly Assembled Shelters (DRASH) procurement and continue Mobile Air Reporting and Communications (MARC) upgrades as well as acquisition and support of Very Small Aperture Terminal (VSAT) equipment.  2. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM: The AFSOC 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. FY01-03 funds procure multiple devices to support STT missions: (1) UHF SATCOM radios which meet Joint Chiefs of Staff mandated narrowband and Demand Assigned Multiple Access (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, which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations.					
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY COMMAND AND CONTROL					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. GLOBAL C2 ARCHITECTURE					\${9,036}		\${8,534}		\${9,454}
A. OWCP	A				\$1,295		\$1,300		
B. LAN	A				\$3,392		\$3,868		\$4236
C. ACFP	A				\$1,684		\$410		\$1200
D. DSATCOM	A				\$2,665		\$2,956		\$4018
2. AFSOC TAC C2 PROGRAM	A				\$281		\$283		\$281
<b>Totals:</b>					\$9,317		\$8,817		\$9,735
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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										
FY01			HQ AMC	OPT/FFP (2)	SIEMENS ROLM, VIENNA, VA	FEB 01	MAR 01			
FY02			HQ AMC	OPT/FFP (2)	SIEMENS ROLM, VIENNA, VA	FEB 02	MAR 02	Y		
B. LAN										
FY01			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 00	DEC 00			
FY02			HQ AIA	OPT/FP	MULTIPLE(3)	OCT 01	DEC 01			
FY03			HQ AMC	OPT/FP	MULTIPLE(3)	OCT 02	DEC 02	Y		
C. ACFP										
FY01			HQ AMC	OPT/FFP (4)	COMPAQ, ST LOUIS, MO	OCT 00	JAN 01			
FY02			HQ AMC	OPT/FFP	COMPAQ, ST LOUIS, MO	OCT 01	JAN 02			
FY03			HQ AMC	OPT/FFP	COMPAQ, ST LOUIS, MO	OCT 02	JAN 03	Y		
D. DSATCOM										
FY01			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 01	JUN 01			
FY02			HQ AMC	DO/FFP	MULTIPLE(5)	FEB 02	JUN 02			
FY03			HQ AMC	DO/FFP	MULTIPLE(5)	JAN 03	JUN 03	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
2. AFSOC TAC C2 PROGRAM (1)										
FY01			HQ AFSOC	OPT/FFP (6)	MULTIPLE(6)	JAN 01	JUN 01			
FY02			HQ AFSOC	OPT/FFP (6)	MULTIPLE(6)	FEB 02	JUN 02			
FY03			HQ AFSOC	OPT/FFP (6)	MULTIPLE(6)	JAN 03	JUN 03	Y		
<b>REMARKS:</b> 1. Quantities and unit costs vary due to different site configurations/computer items being procured. 2. Option to prior year contract awarded Feb 96 to Siemens Rolm, Vienna, VA. 3. Utilizes AFCAC 308 and Desktop IV & V contracts. Multiple award and delivery dates to multiple vendors; award/delivery dates reflect date of first award and delivery. 4. Option to prior year contract awarded Apr 99 to COMPAQ, St Louis, MO. 5. Delivery Orders with multiple contractors to include RAM, Reston, VA; GSA, Kansas City, MO; Siemens Rolm, Vienna, VA; award/delivery dates reflect date of first award and delivery. 6. Option to existing AFSOC and US Army contracts. Award/delivery dates reflect dates of first award/delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$36,521	\$61,876	\$41,835	\$28,020	\$26,587	\$30,391	\$34,435
<p><b>Description:</b></p> <p>In FY02, the Base Physical Security Systems, PE 0207589F, received \$6 million as part of the Defense Emergency Relief Fund (DERF). Funding was used to procure cement modular blocks to defeat authorized vehicular penetration of weapons storage area munitions igloos in support of Operation HOMELAND DEFENSE.</p> <p>This program procures and installs physical security equipment to protect aircraft, missiles, nuclear weapons, and other critical war fighting resources on 117 installations world-wide to include active Air Force, Air Force Reserve, and Air National Guard installations. 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 an average of every eight years, depending on environmental conditions, type of sensor, and availability of spare parts due to technical obsolescence. The program funds modern security equipment to replace older generation intrusion detection systems at fixed sites, provides relocatable sensors for use on Air Force flightlines, responds to transient security threats, and provides tactical sensors, communications equipment, physical delay and/or denial devices, engineering design, installation, allied support, modeling and simulation, training and program office support. This program also directly supports the Homeland Defense elements of anti-terrorism, counter-terrorism, critical infrastructure protection and consequence management.</p> <p>Other physical security delay/denial equipment funded in this program includes remotely operated mobile sensor systems, including the associated unmanned air and/or ground vehicle platforms; directed energy weapons for force protection applications, including non-lethal laser and millimeter-wave systems; non-lethal weapons; and remotely-operated weapon mounting and fire control systems.</p> <p>1. <b>TACTICAL SECURITY SYSTEMS:</b> Tactical Security Systems provide integrated electronic security systems designed for rapid deployment and worldwide operation. Tactical Security Systems employ sensors, assessment devices, alarm monitors, data communications links and power equipment to form a continuous electronic security envelope around critical resources, improving the ability of Air Force</p>								
	<b>P-1 ITEM NO</b> 47		<b>PAGE NO:</b> 96		Page 1 of 5			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> Security Forces to protect them. Designs are modular and tailorable to support any requirement. An on-going Pre-Planned Product Improvement (P3I) Program provides systems capability improvements.  a) AIR BASE GROUND DEFENSE (formerly called Air Base Defense Sensors): These funds support the Air Force tactical sensor program which addresses air base defense requirements for security forces to detect intrusions and assess targets. Tactical Automated SecuritySystem (TASS) equipment is required to support two major theater wars and provide robust force protection capabilities world-wide. TASS kit procurement addresses squad, boundary, headquarters and basic starter kit configurations, each containing varying numbers of active, passive, telescope infrared and breakwire sensors, as well as communications equipment, radios, assessment devices, training and associated support equipment. FY01 funding procured mission-tailored TASS equipment. FY02/03 funding will continue the procurement of additional TASS equipment.  b) ANTI-TERRORISM: The anti-terrorism program is designed to protect and defend service members, civilian employees, family members, facilities, and other Air Force resources in all locations and situations. Anti-terrorism funds procure intrusion detection and assessment equipment to protect overseas resources that have been evaluated as potentially soft targets for terrorist attacks. FY01 funds procured portable TASS security equipment used by Force Protection Expeditionary Forces in response to changing and evolving threat scenarios worldwide. The equipment includes portable tactical sensors, thermal imagers, fiber optic sensors, and other state-of-the-art detection and assessment equipment. FY01 funding also procured equipment and Type 1 training in support of United States Air Forces Europe (USAFE) asset hardening efforts and Air Force Office of Special Investigation (AFOSI) anti-terrorist intelligence activities. FY02/03 funding will continue procurement of equipment in support of these anti-terrorism efforts.  c) FLIGHTLINE SECURITY: Flightline security equipment reduces risk to Air Force personnel, weapon systems and facilities deployed on base flightlines. DoD downsizing, reductions in forward basing, and aircraft technology advances have elevated Air Force weapon systems into increasingly valuable national power projection capabilities. However, the security afforded most Air Force aircraft and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment and state-of-the-art technology. The current TASS contract enables the Air Force to meet flightline security requirements in accordance with the Aerospace Expeditionary Force concept. FY01 funding procured additional TASS equipment. FY02/03 funding continues procurement of equipment					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> including a variety of sensors, assessment devices and communication equipment to meet a broad range of intrusion detection needs (perimeter, tactical, and flightline). Additionally, FY01-03 funds procure TASS alarms, sensors, annunciators, closed circuit televisions (CCTV) and night vision equipment in support of the Air Mobility Command (AMC) Raven program. Raven crews are security force personnel responsible for overall aircrew and aircraft force protection when AMC aircraft land on non- DoD-controlled airfields throughout the world.					
2. STRATEGIC SECURITY SYSTEMS: Acquire, install, and test perimeter and interior intrusion detection, assessment, and alarm reporting systems for Air Force, Guard and Reserve installations. Installations and upgrades include design, interior/exterior intrusion detection systems (IDS), annunciators, access control systems with accompanying communications upgrades, video storage systems (VSS), allied support, initial training, training equipment, interim contractor support, and ancillary equipment items. Weapon Storage Areas (WSAs) are located at Nellis AFB, NV, Malmstrom AFB, MT, Barksdale AFB, LA, F.E. Warren AFB, WY, KUMMSC at Kirtland AFB, NM, Minot AFB, ND and Whiteman AFB, MO.					
a) AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: These funds procure intrusion detection sensors, alarm annunciators and closed circuit television cameras to maintain and replace unsupportable Air Launch Cruise Missile (ALCM) security command and control subsystems. FY01 funding procured equipment integration and upgrades for Minot AFB, ND. FY02/03 funding continues to provide initial security upgrade planning and installation at various WSAs.					
b) FIXED-SITE SECURITY: Fixed-Site Security projects support long-term physical security requirements at permanent Air Force installations worldwide. Permanently-based aircraft and missiles, weapons in depot storage, satellite control facilities, and other key Air Force assets require permanently installed intrusion detection systems and access control systems. Detection systems integrate alarms, sensors and annunciators into consolidated packages in support of priority resources. FY01 funds supported WSA upgrades at Minot AFB, ND and the Kirtland Underground Munitions Maintenance & Storage Complex (KUMMSC) at Kirtland AFB, NM. FY01 funds also procured the design and installation of a new perimeter security and access control system for the protection level (PL) 1 area at Schriever AFB, CO. The FY02 funding procures an intrusion detection system for the Air Force One Senior Executive complex (SENEX) at Andrews AFB, MD. In addition, FY02 funding procures security system installations for Air Force Reserve Command and Air Education and Training Command and sensors for Pacific Air Forces. FY02 funding also initiates replacement and upgrade of the Schriever AFB Intrasite Fiber Optic Cable System to					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<p><b>Description (continued):</b></p> <p>interconnect the perimeter security system with the Site Security Control System. FY02 funds also replace and upgrade the perimeter security system around Shriever's main base, to include a new inner security fence, relocation/improvement of the CCTV systems, new perimeter sensors systems, field distribution boxes (FDBs), patch panels, and backup battery systems. FY02/03 funding will complete the WSA upgrades at Minot AFB and KUMMSC, and begin installation at one or more WSA locations.</p> <p>c) 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 can no longer be supported. FY01 funds purchased an upgrade of equipment for the missile security mission at Minot AFB, ND. FY02/03 funding supports upgrade planning and installation for Malmstrom AFB, MT, and F. E. Warren AFB, WY, as well as other Air Force Space Command locations.</p> <p>d) Joint STARS: The FY03 funding will procure an electronic security system for Joint Surveillance Target Attack Radars Systems (JSTARS) at Robins AFB, GA. This intrusion detection system will provide a single line of detection at the restricted area boundary which will eliminate the need for three close boundary sentries.</p> <p>3. OTHER AIR FORCE SECURITY SYSTEMS: Funds provide for design, acquisition, integration, installation, and testing of interior/exterior physical security systems for Air Force Major Commands worldwide. Funds are also utilized for the planning of logistical support (i.e., training and maintenance).</p> <p>a) FLIGHTLINE SECURITY ENHANCEMENT PROGRAM (FSEP): The FSEP provides a 24-hour surveillance, assessment and intrusion detection capability to enhance protection of USAFE flightline areas. This program is being implemented at operating bases throughout the European Theater. Phase 1 installs CCTV and thermal imagers on elevated pan-tilt-zoom mounts and provides a stand-alone capability of flightline surveillance and assessment. Phase 2 will integrate one or more sensor systems, alarm annunciation equipment, and delay systems with Phase 1 equipment to provide an intrusion detection capability to help reduce the flightline risk. FY01 funds procured Phase 1 equipment for Ramstein AB GE, Spangdahlem AB GE, RAF Lakenheath England, and Incirlik AB Turkey, completed site installation activities at RAF Lakenheath, and continued installation activities at Spangdahlem and Ramstein ABs. The installation at Incirlik AB is on hold</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM			
<b>Description (continued):</b> pending final host nation approval from the Turkish General Staff. Funds also continued Phase 2 system architecture design option activities, and procured annunciator and sensor systems for Phase 1 and 2 integration efforts. FY02/03 funding completes all Phase 1 installation activities and completes Phase 2 system architecture design and integration activities.  b) JOINT SERVICE INTERIOR INTRUSION DETECTION SYSTEMS (JSIIDS): JSIIDS is a joint service intrusion detection system used for protection of base resources outside of the CONUS. The JSIIDS program procures and installs a certified Air Force annunciator system to replace the aging JSIIDS annunciator, which has been in operation at European bases for over 20 years. FY01 funds initiated JSIIDS activities with site surveys at all JSIIDS locations, and procured and installed the JSIIDS annunciator at Spangdahlem AB Germany. FY02/03 funding will continue procurement and installation efforts at remaining JSIIDS locations.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE PHYSICAL SECURITY SYSTEM					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. TACTICAL SECURITY SYSTEMS					\${27,385}		\${27,345}		\${26,189}
A. AIR BASE DEFENSE SENSORS	A				\$3,403		\$2,781		\$2,708
B. ANTI-TERRORISM	A				\$2,611		\$1,028		\$1,833
C. FLIGHTLINE SECURITY					\$21,371		\$23,536		\$21,648
2. STRATEGIC SECURITY SYSTEM					\${5,257}		\${32,661}		\${13,450}
A. AIR LAUNCH CRUISE MISSILE	A				\$1,287		\$1,318		\$1,324
B. FIXED-SITE SECURITY	A				\$3,439		\$30,803		\$8,109
C. MINUTEMAN SQUADRON SECURITY	A				\$531		\$540		\$540
D. JSTARS									\$3,477
3. OTHER SECURITY SYSTEM					\${3,879}		\${1,870}		\${2,196}
A. FLIGHTLINE SECURITY ENHANCEMENT SYSTEM	A				\$3,565		\$1,602		\$1,832
B. JT SERVICE INTERIOR INTRUSION DETECTION SYS	A				\$314		\$268		\$364
<b>Totals:</b>					\$36,521		\$61,876		\$41,835
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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. TACTICAL SECURITY SYSTEMS (1) (2)										
A. AIR BASE DEFENSE SENSORS										
FY01			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 01	AUG 01			
FY02			AFMC/ESC	DO/FFP	MULTIPLE (3)	NOV 01	FEB 02			
FY03			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 03	FEB 03	Y		
B. ANTI-TERRORISM										
FY01			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 01	AUG 01			
FY02			AFMC/ESC	DO/FFP	MULTIPLE (3)	FEB 02	JUL 02	Y		
FY03			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 03	FEB 03	Y		
C. FLIGHTLINE SECURITY										
FY01			AFMC/ESC	DO/FFP	MULTIPLE (3)	FEB 01	JUL 01			
FY02			AFMC/ESC	DO/FFP	MULTIPLE (3)	FEB 02	JUL 02	Y		
FY03			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 03	FEB 03	Y		
2. STRATEGIC SECURITY SYSTEM (1) (2)										
A. AIR LAUNCH CRUISE MISSLE										
FY01			AFMC/ESC	OTH/OTH	MULTIPLE (3)	FEB 01	AUG 01			
FY02			AFMC/ESC	OTH/OTH	MULTIPLE (3)	NOV 01	MAR 02			
FY03			AFMC/ESC	OTH/OTH	MULTIPLE (3)	DEC 02	MAR 03	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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 SECURITY										
FY01			AFMC/ESC	OTH/OTH	MULTIPLE (3)	FEB 01	AUG 01			
FY02			AFMC/ESC	OTH/OTH	MULTIPLE (3)	NOV 01	MAR 02			
FY03			AFMC/ESC	OTH/OTH	MULTIPLE (3)	DEC 02	MAR 03	Y		
C. MINUTEMAN SQUADRON SECURITY										
FY01			AFMC/ESC	OTH/OTH	MULTIPLE (3)	FEB 01	AUG 01			
FY02			AFMC/ESC	OTH/OTH	MULTIPLE (3)	MAR 02	JUN 02	Y		
FY03			AFMC/ESC	OTH/OTH	MULTIPLE (3)	DEC 02	MAR 03	Y		
D. JOINT STARS (JSTARS)										
FY03			AFMC/ESC	DO/FFP	MULTIPLE (3)	JAN 03	MAY 03	Y		
3. OTHER SECURITY SYSTEMS										
A. FLIGHTLINE SECURITY ENHANCEMENT SYSTEM										
FY01			HQ USAFE	MIPR/OTH/OTH	MULTIPLE (3)	FEB 01	JUL 01			
FY02			HQ USAFE	MIPR/OTH/OTH	MULTIPLE (3)	FEB 02	JUN 02	Y		
FY03			HQ USAFE	MIPR/OTH/OTH		NOV 02	MAR 03	Y		
B. JT SERVICE INTERIOR INTRUSION DETECTION SYS										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
FY01			HQ USAFE	MIPR/OTH/OTH	MULTIPLE (3)	JUL 01	AUG 01			
FY02			HQ USAFE	MIPR/OTH/OTH	MULTIPLE (3)	MAR 02	JUN 02	Y		
FY03			HQ USAFE	MIPR/OTH/OTH	MULTIPLE (3)	NOV 02	JAN 03	Y		
<p><b>REMARKS:</b></p> <p>1. Unit costs vary due to various types and quantities of physical security equipment procured for each site.</p> <p>2. Locations of PCO varies from AFMC/ESC, AFMC/38th, AFMC/46TW, GSA, Ft Worth, TX, Department of Energy (DOE) Albuquerque, NM and USAFE, Europe.</p> <p>3. Multiple contract method and types: Delivery Order/Firm Fixed Price contracts: In Oct 97, AFMC/ESC awarded three (3) five-year delivery order contracts to TRW, Carson, CA; EER Systems, Seabrook, MD; and LAU Technologies, Littleton, MA. Task Order/Labor Hour contracts to Kylmar, LTD, Andover, UK, and GSA/Labor Hour/Delivery Order to Horizons Technology, (HTI), Billerica, MA; Gemini Industries, Billerica, MA; System Resources Corp (SRC), Burlington, MA; ACS Defense, Inc, Burlington, MA; MCR, Bedford, MA; and Systems Planning Corp (SPC), Arlington, VA. Other typical contractors include Booz Allen &amp; Hamilton, Ft Worth, TX and Mosler, Northridge, CA. Award/delivery dates represent the date of first award/delivery.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$44,774	\$111,207	\$17,242	\$21,658	\$19,681	\$20,263	\$20,392
<b>Description:</b>								
<p>This program procures 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, ground-to-air, and electronic warfare training along with the ability to record events for crew debriefing and analysis. This program also procures weapons scoring systems, 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. FY01-03 funding continues the upgrade of these critical training systems. Emphasis in FY03 will be placed on acquiring increased Global Positioning System (GPS) capability while operating in a rangeless, joint environment under advanced radar threat. FY01-03 funding also addresses modernization of an aging electronics and telecommunications infrastructure on ranges to ensure compliance with current standards and continued range safety.</p> <p>1. AIR COMBAT TRAINING SYSTEMS (ACTS): In FY01, Congress added \$2.5 million for the Force Operational Readiness and Combat Effectiveness Simulation (FORCES) for the Air National Guard (ANG). Reference Appropriation Conference Report 106-754, July 17, 2000, page 210. In FY02, Congress added \$6.3 million for the P4 Refurbishment program. Reference Appropriations Conference Report 107-350, Dec 19, 2001, page 293.</p> <p style="padding-left: 40px;">a. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS): The JAWSS program consists of Navy-developed scoring systems which upgrade the weapon (bombing and gunnery) and laser spot scoring on Air Force (AF) ranges. These upgrades provide multiple new capabilities, to include scoring of day or night operations, production of a data stream with immediate displays, and results transmission to the pilot. Other provisions include the capability to monitor and control an extended, realistic target environment for simulated ordnance delivery, and aircrew training for airborne laser designators. FY01 funds procured upgrades at four ANG and two AF ranges. FY02 funds procure upgrades for three AF ranges. FY03 funds will procure upgrades for one AF range and three ANG ranges.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES		
<b>Description (continued):</b> <p>b. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES: FY01-03 funds provide a "modular" approach to Air Combat Maneuvering Instrumentation (ACMI) range upgrades, which includes additional security equipment and GPS capability, through the P4 Refurbishment Contract (P4RC) program and the P4RC Plus program. These funds continue the upgrade of selected legacy systems to a more state-of-the-art, functional configuration. Aging computational and control systems (CCS) and advanced display and debriefing systems (ADDS) will be replaced with smaller, more capable, efficient, open architecture computer systems capable of hosting the latest fielded software upgrades. Secure capability will be added to range instrumentation and threat systems to support realistic training with state-of-the-art air-to-air missile systems such as the Advanced Medium-Range Air-to-Air Missile (AMRAAM), modern surface-to-air missiles systems, and advanced "double digit" adversary threat systems. GPS capability will be added to legacy ground instrumentation subsystems to complement airborne GPS training instrumentation subsystems through a refurbishment approach. Ground display and debriefing equipment will be upgraded to read and display new data cartridges/formats and host display and debriefing software on personal and laptop computers. These upgrades will improve equipment sustainability and maintainability and will improve training by providing expanded range coverage and providing some "rangeless" training. "Rangeless" training capability permits instrumented air combat training to be accomplished in any available airspace without having to fly over highly instrumented ground ranges. This will provide high fidelity, instrumented training for aircrews. Additionally, FY01-03 funds procure ground electronics equipment to support display and debriefing of data from P4 series training pods being upgraded under the P4RC program.</p> <p>c. FORCE OPERATIONAL READINESS AND COMBAT EFFECTIVENESS SIMULATION (FORCES): No FY03 funding is requested.</p> <p>2. ELECTRONIC COMBAT THREAT SYSTEMS: (formerly known as Advanced Threats Upgrade): Congress added \$21.4 million in FY01 for the Unmanned Threat Emitter (UMTE) System. Reference Appropriation Conference Report 106-754, July 17, 2000, page 210. In FY02 Congress added \$19.8 million for the Modular Threat Emitter, Mini-MUTES (Multiple Threat Emitter System), Mobile Remote Emitter Simulators and UMTE. Reference Appropriations Conference Report 107-350, Dec 19, 2001, page 293.</p> <p>The Mini-MUTES Modernization Program (M3P) provides system upgrades for the AN/MST-T1(V), Mini-MUTES to satisfy electronic warfare (EW) training capability requirements. Mini-MUTES provides surface-to-air missile, anti-aircraft artillery (AAA) and acquisition radar</p>				
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> electronic threat signals. The M3P will modernize Mini-MUTES by incorporating the latest, most lethal, advanced threats, enabling use of the Mini-MUTES as a high quality training system through the year 2020. FY01/02 funds procure advanced threat systems and upgrades to include Electronic Countermeasures (ECM) receivers as part of M3P in FY02. FY02 funds also procure upgrades for obsolete components in the Modular Threat Emitters (MTEs), MUTES and T3 (anti-aircraft artillery simulator) emitters. FY02 funds also procure Mobile Remote Emitter Simulators (MRES) and UMTE equipment. These systems simulate former Soviet Union surface-to-air missile threat systems and anti-aircraft artillery systems. In addition, FY02 funds will procure upgrades to the Threat Reaction Analysis Indicator System (TRAINS) which analyzes the accuracy and effectiveness of aircraft electronic combat defense systems. FY03 funding will procure additional kit upgrades for Mini-MUTES systems. No FY03 funds requested for the Unmanned Threat Emitter (UMTE). This will complete the production effort under the M3P contract.  3. RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION: In FY02 Congress added \$18.3 million for the Pacific Alaska Range Complex (PARC), Mount Fairplay Range Complex, Sustina, Alaska TSP-117 Radar Site and Ultra High Frequency/Very High Frequency (UHF/VHF) Radios. Reference Appropriations Conference Report 107-350, Dec 19, 2001, page 293.  a. NEVADA TEST AND TRAINING RANGE (NTTR): FY02 funding completes a high capacity telecommunications fiber optic backbone. Specific items include: encryption devices, fiber optic cable and associated end items, access to commercial power, security alarms, and communications equipment shelters. FY02 funding also procures a modern digital switch that can handle increased telephone and radio interfaces to support exercise requirements at the Nellis Air Traffic Control Facility, Nellis Air Force Base (AFB), NV. Additionally, FY02 funding procures radio electronic combat simulators as well as prepare sites with communications and power to accept simulators at the NTTR. No FY03 funds are requested.  b. UTAH TEST AND TRAINING RANGE (UTTR): FY02 funding procures a radar system for tracking and range safety, procure high-speed digital video cameras, and upgrade data readers and infrared cameras at the UTTR. FY02 funding also provides for upgrade for the air-to-ground and ground-to-ground radio capabilities. Specific requirements include procurement of land mobile radios and repeater stations, procurement of a Mode-S capability for air traffic control and a radar interface. No FY03 funds are requested.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES			
<b>Description (continued):</b> <p>c. REALISTIC BOMB TRAINING INITIATIVE (RBTI) MONITORING CAPABILITY: FY02 funding procures radar feeds and displays and associated radio communications to provide a monitoring capability of the RBTI airspace to insure aircraft safety of flight and threat scenario situational awareness for systems located near Dyess AFB, Texas. No FY03 funds are requested.</p> <p>d. PACIFIC ALASKA RANGE COMPLEX (PARC) MODERNIZATION: FY02 funding procures and installs a TPS-117 radar and UHF/VHF radios at the Mount Fairplay Range Complex, Sustina, Alaska.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: COMBAT TRAINING RANGES					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AIR COMBAT TRAINING SYSTEMS (ACTS) (1)					\${12,146}		\${13,392}		\${7,351}
A. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)	A				\$3,933		\$3,803		\$3,195
B. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES	A				\$5,713		\$9,589		\$4,156
C. FORCE OPERATIONAL READINESS AND COMBAT EFFECTIVENESS SIMULATION (FORCES)	A				\$2,500				
2. ELECTRONIC COMBAT THREAT SYSTEMS	A				\$32,628		\$49,138		\$9,891
3. RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION							\${48,677}		
A. NEVADA TEST AND TRAINING RANGE (NTTR)	A						\$13,427		
B. UTAH TEST AND TRAINING RANGE (UTTR) MODERNIZATION	A						\$16,100		
C. REALISTIC BOMBER TRAINING INITIATIVE (RBTI) MONITORING CAPABILITY	A						\$850		
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT	<b>P-1 NOMENCLATURE:</b> COMBAT TRAINING RANGES
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
D. PACIFIC ALASKA RANGE COMPLEX (PARC) MODERNIZATION							\${18,300}		
TPS-117 RADAR	A						\$15,300		
UHF/VHF RADIOS	A						\$3,000		
<b>Totals:</b>					\$44,774		\$111,207		\$17,242

**Remarks:**

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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 (ACTS) (1)										
A. JOINT ADVANCED WEAPON SCORING SYSTEM (JAWSS)										
FY01			HQ ACC	MIPR/OTH	NAVY - MULTIPLE (2)	MAR 01	NOV 01			
FY02			HQ ACC	MIPR/OTH	NAVY - MULTIPLE (2)	MAR 02	NOV 02	Y		
FY03			HQ ACC	MIPR/OTH	NAVY - MULTIPLE (2)	MAR 03	NOV 03	Y		
B. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES										
FY01 (6)			AFMC/AAC	C/CPAF	MULTIPLE (3)	NOV 01	AUG 02			
FY02			AFMC/AAC	C/FFP	UNKNOWN	FEB 02	DEC 02	Y		
FY03			AFMC/AAC	C/FFP	UNKNOWN	FEB 03	DEC 03	Y		
C. FORCE OPERATIONAL READINESS AND COMBAT EFFECTIVENESS SIMULATION (FORCES)										
FY01 (7)			HQ AETC	C/FFP	UNKNOWN	DEC 01	MAR 02			
2. ELECTRONIC COMBAT THREAT SYSTEMS (1)										
FY01			AFMC/OO-ALC	OTH (4)/OTH	MULTIPLE	MAR 01	MAR 02			
FY02			AFMC/OO-ALC	OTH (4)/OTH	MULTIPLE	JAN 02	JUN 02			
FY03			AFMC/OO-ALC	OTH (4)/OTH	MULTIPLE	JAN 03	JUN 03	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
3. RANGE ELECTRONICS AND TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION										
A. NEVADA TEST AND TRAINING RANGE (NTTR)										
FY02			HQ ACC	MIPR/OTH/FFP	UNKNOWN	APR 02	APR 03	N	JAN 02	
B. UTAH TEST AND TRAINING RANGE (UTTR) MODERNIZATION										
FY02			HQ ACC	MIPR/OTH/FFP	UNKNOWN	APR 02	APR 03	N	JAN 02	
C. REALISTIC BOMBER TRAINING INITIATIVE (RBTI) MONITORING CAPABILITY										
FY02			HQ ACC	OPT (5)/FFP	BERING ECHO TECH, ANCHORAGE, AK	NOV 01	FEB 02			
D. PACAIFIC ALASKA RANGE COMPLEX (PARC) MODERNIZATION										
TPS-117 RADAR										
FY02			HQ PACAF	SS/FFP	UNKNOWN	AUG 02	AUG 03	Y		
UHF/VHF RADIOS										
FY02			HQ PACAF	OTH/FFP	UNKNOWN	JUL 02	OCT 02	Y		
<b>REMARKS:</b> 1. Quantity and unit cost varies due to the amount and types of equipment being installed at different ranges. 2. Joint Advanced Weapons Scoring System (JAWSS) procured by Naval Warfare Assessment Station, Corona, CA and Naval Air Warfare Center, Point Mugu,										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
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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	
<p>CA. Award dates and date of first delivery reflect the first award and delivery dates.</p> <p>3. Contractors include: Sverdrup, Fort Walton Beach, FL and SEMCOR, Shalimar, FL.</p> <p>4. Multiple contract methods and types, to include options to existing contracts, sole source contracts and MIPRs. Representative contractors include Harris Corp., Melbourne, FL; Sierra Technologies, Inc., Buffalo, NY; and, EW Systems, Colorado Springs, CO. Award dates and dates of first delivery reflect first award and delivery date.</p> <p>5. Option to Bering Sea Echo Tech, Anchorage, AK contract awarded May 00.</p> <p>6. FY01 contract awarded late due to need to obtain Congressional approval for use of funds. Approval received in FY01 OMNIBUS.</p> <p>7. FY01 FORCES funds were a Congressional add; contract not awarded in FY01 due to contractor bids outside competitive range; program restructure is underway.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,494	\$2,064	\$1,072	\$0	\$5,655	\$47,427	\$120,953
<p><b>Description:</b></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>The Defense Improved Emergency Message Automatic Transmission System (IEMATS) Replacement Command &amp; 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. DIRECT will provide all current IEMATS requirements, including the build and release of Emergency Action Messages (EAMs), to allow the war fighter to remain responsive to NCA directives. DIRECT will be certified to Top Secret-Single Integrated Operational Plan (SIOP) messaging. DIRECT reached Initial Operational Capability (IOC) on 15 Aug 01. FY01 funding provides for systems hardware product improvement and enhancements through Engineering Change Proposals (ECP's). FY02/03 funds will be used to enhance the capabilities of the existing DIRECT sites.</p>								
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>						<b>DATE: FEBRUARY 2002</b>							
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						<b>P-1 NOMENCLATURE:</b> MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DIRECT						{1,494}			{2,064}			{1,072}	
SYSTEM HARDWARE	A					1,494			1,400			1,072	
ECO									664				
<b>TOTALS:</b>						1,494			2,064			1,072	
<b>REMARKS:</b>													
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$14,037	\$9,557	\$13,409	\$9,290	\$9,478	\$9,646	\$9,841
<p><b>Description:</b></p> <p>In FY03, the Air Force anticipates receiving \$2 million from the Cost of War Transfer Account. These funds are not included in the baseline. Funding would be used to procure that include, but are not limited to: four servers and rack; 50 workstations; three web servers; three disk array back-ups; and a top secret video teleconference capability. The systems will set up a multi-classification level training environment for Information Warfare (IW) planners and operators.</p> <p>U.S. military forces operate in an information age where the need for precise, instantaneous intelligence is increasing and expanding across the entire spectrum of military operations. However, this increasing technical sophistication leads to a dependency on technology which, in turn, may represent potentially crippling vulnerabilities. The Air Force (AF) addresses this vulnerability through Information Operations (IO). IO includes those actions taken to gain, exploit, defend and attack information and information systems and includes two facets, information-in-warfare and information warfare. IW consists of actions conducted to attack an adversary's information and information systems while defending one's own.</p> <p>Information warfare includes the integrated application of Electronic Warfare (EW), Psychological Operations (PSYOP), military deception, physical attack, computer network attack, counterintelligence, counterdeception, computer network defense, counterpropaganda, information assurance, and operations security (OPSEC). The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), 67th Information Operations Wing, and Joint Information Operations Center (JIOC), all located in San Antonio, TX, are responsible for IW and Command and Control Warfare (C2W) operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment (computer, communications, and unique intelligence and analysis systems) vital to accomplishing and supporting those organizations' IW and C2W missions. Elements of the program are addressed individually below.</p> <p>Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution</p>								
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 116			Page 1 of 6		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> may change based on critical equipment needed to support current Air Force mission requirements.  1. AF INFORMATION WARFARE CENTER (AFIWC) SUPPORT: AFIWC is the Center of Excellence creating the information warfare advantage for combatant forces through exploring, developing, applying, and transitioning counter-information technology, strategy, tactics, and data to control the information battlespace. Funds procure equipment and tools for the following projects:					
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 117		Page 2 of 6

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b>					
<p>a. AUTOMATIC DATA PROCESSING (ADP) UPGRADES: FY01-03 funding continues to replace basic AFIWC internal computer infrastructure and network requirements for administrative and management functions.</p>					
<p>b. MODELING AND SIMULATION: FY01-03 funds procure computer equipment and analytical tools to conduct detailed analyses insupport of current operations, and the acquisition community (to include test &amp; evaluation). These analyses provide the end user with a means of understanding the performance of their systems in hostile threat environments, directly impacting the survivability of combat-coded United States Air Force (USAF) aircraft and aircrews. The analyses are routinely used to support operational mission planning; tactics, techniques, and procedures (TTP) development; and acquisition decisions. This analytical capability has been applied in all conflicts since the Vietnam War through the recent Kosovo campaign.</p>					
<p>c. COMMAND AND CONTROL WARFARE (C2W) OPERATIONS SUPPORT: FY01-03 funds procure equipment to maintain the C2W Operational Support System (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, Bosnia, and Kosovo.</p>					
<p>d. INFORMATION WARFARE (IW): FY01-03 funds procure computer and computer related equipment to support the integration of IW decision aids into combat planning and execution cycles.</p>					
<p>e. OFFENSIVE IW: FY01-03 funding continues the procurement of computer, computer related, memory storage, local and long-haul communications, contractor information system specialties, infrastructure, and unique intelligence and analysis equipment required to support IW analysis which delivers timely AF IW capabilities for training (including Distributed Mission Analysis), EW systems capabilities analysis and combat operations. This funding begins a scaled evolution of processing power in an attempt to maintain compatibility with the rest of the Distributed Mission Training (DMT) community and the latest changes in the simulator systems. This process provides sufficient computation capability to perform high-fidelity simulations required by the DMT simulators. The training simulations used by the AFIWC to support large-scale exercises (BLUE FLAG, Roving Sands, Joint Expeditionary Force Experiment, etc.) will also be able to maintain currency with the latest developments in the exercise simulation environment. Additionally, these procurements are vital for the exploration, development and</p>					
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 118		Page 3 of 6

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> fielding of reach-back capabilities. They also facilitate migration of AF combat capabilities to Numbered Air Forces and IO personnel responsible for the integration and execution of tools necessary to gain, exploit, defend, and attack information and information systems.  2. 67th INFORMATION OPERATIONS WING SUPPORT: The 67th Information Operations Wing, Lackland AFB TX, conducts AIA's global mission. The wing directs the planning of multi-source intelligence, electronic combat services, information warfare, and communications security. It assists Air Force components in the development of airpower concepts, conducting exercises and employment of AIA forces in contingencies, low-intensity conflict, and special operations.  a. COMMUNICATIONS SECURITY (COMSEC) ASSESSMENT SUPPORT: No FY03 funding is requested.  b. TELECOMMUNICATIONS MONITORING AND ASSESSMENT PROGRAM (TMAP): FY01-03 funding provides systems equipment to monitor digital voice, data, facsimile, and video in an integrated package.  3. JOINT INFORMATION OPERATIONS CENTER (JIOC): The JIOC provides joint force commanders (combatant commanders, subordinate unified commanders and joint task force commanders), service component commanders and functional component commanders direct Joint IO support. The JIOC supports the integration of the constituent elements of IO throughout the planning and execution phases of operations. The JIOC provides Joint IO planning, including options for Defensive IO and predictive analysis to U.S. forces involved in contingency operations and worldwide exercises. The JIOC also provides enhanced training of battlefield commanders through the JQUAD (Note: JQUAD is not an acronym) suite of training simulations. JQUAD functionality will be re-engineered to the Joint Simulation System (JSIMS) high level architecture. The JIOC analyzes and correlates all-source data on both friendly and threat forces. This data is used as input into sophisticated IO computer models, simulations, and planning analysis tools. These high-fidelity simulations provide field commanders with targeting options and composite analytic pictures. The JIOC provides tactical and technical evaluations to include integrated soft/hard kill options and technical feasibility and trade-offs. This analysis results in complete assessment of IO options and effectiveness predictions. FY01-03 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and storage capacity must be added to the JIOC analysis networks and systems to improve performance of IO computer models. Workstations, which deploy with CINC support teams and provide on-scene analytical support as well as reach-back					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<b>Description (continued):</b> capability, are replaced approximately every three years. Computer hardware hosting the JQUAD training simulation system at training centers worldwide must be replaced with computer systems compatible with the JSIMS architecture. Funding also provides for deployable field support systems, equipment, and training for detecting, identifying, locating, targeting, exploiting and countering signals in support of combatant commanders, national agencies, exercises, and advanced concept technology of demonstrations (ACTD) vulnerability assessments.  a. ELECTRONIC COMBAT (EC) ANALYST NETWORK: FY01-03 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and storage capacity must be added to the JIOC analysis networks and systems to improve performance of IO computer models.  b. COMBAT ANALYSIS SYSTEM: FY01-03 funding provides field commander support systems including, automated support systems for IO training.  c. FIELD COMMANDERS SUPPORT: FY01-03 funding provides for workstations, which deploy with CINC support teams and provide on-scene analytical support as well as reach-back capability (replaced every three years).  d. COMPUTER TRAINING SIMULATION: FY01-03 funding provides for computer hardware, which hosts the JQUAD training simulation system at training centers worldwide, and must be replaced with computer systems, which are compatible with the JSIMS architecture.  e. IO RED TEAM SUPPORT: FY01-03 funding provides for deployable field support systems, equipment, and training for detecting, identifying, locating, targeting, exploiting and signals in support of combatant commanders, national agencies, exercises, and Advanced Concept Technology Demonstrations (ACTD) vulnerability assessments.  A reduction or loss in funding would severely hamper support to joint force, service, and functional component commanders in C2W/IO support. Specifically, the lack of funding would result in the following: (1) Inability to replace computer systems to host training simulations in gaming centers worldwide (2) Extremely limited upgrades to multi-processor which would degrade performance and significantly delay					
	<b>P-1 ITEM NO</b> 50		<b>PAGE NO:</b> 120		Page 5 of 6

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES			
<p><b>Description (continued):</b> interoperability with virtual simulations (3) Severe restriction in the use of IO computer models for field Commander Targeting Support, and IO Red Team vulnerability assessments (4) No replacement of CINC support team deployable workstations with state-of-the-art technology and equipment, and (5) A dramatic restriction in Protect/Defense support.</p> <p>4. INFORMATION WARFARE (IW) FLIGHTS: No FY03 funding is requested.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> C3 COUNTERMEASURES						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. AFIWC SUPPORT (1) (2)					\${8,172}		\${6,159}		\${7,756}	
A. ADP UPGRADES	A				\$237		\$287		\$288	
B. MODELING AND SIMULATION	A				\$620		\$636		\$1,372	
C. C2W OPS SUPPORT	A				\$330		\$335		\$336	
D. INFORMATION WARFARE	A				\$3,297		\$2,315		\$3,697	
E. OFFENSIVE IW	A				\$3,688		\$2,586		\$2,063	
2. 67TH INFO OPS WING SUPPORT (1) (2)					\${1,307}		\${1,080}		\${2,481}	
A. COMSEC ASSESSMENT SPT	A				\$404		\$334			
B. TMAP	A				\$903		\$746		\$2,481	
3. JIOC (1) (2)					\${1,606}		\${2,318}		\${3,172}	
A. EC ANALYST NETWORK	A				\$308		\$441		\$603	
B. COMBAT ANALYSIS SYSTEM	A				\$921		\$1,342		\$1,840	
C. FIELD COMMANDERS SUPPORT	A				\$99		\$140		\$190	
D. COMPUTER TNG SIM	A				\$179		\$255		\$349	
E. IO RED TEAM SUPPORT	A				\$99		\$140		\$190	
4. IW FLIGHTS (1) (2)	A				\$2,952					
<b>Totals:</b>					\$14,037		\$9,557		\$13,409	
			<b>P-1 ITEM NO</b> 50				<b>PAGE NO:</b> 122			
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)						DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: C3 COUNTERMEASURES					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
<b>Remarks:</b>  1. Multiple quantities and/or unit costs associated with C3 Countermeasures equipment. 2. The AIA is the primary contracting office (PCO) for these Countermeasures items. Multiple contracts with varying award and delivery dates exist to procure 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.									
		P-1 ITEM NO 50			PAGE NO: 123			Page 2 of 2	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE LEVEL DATA AUTOMATION PROGRAM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$24,128	\$12,806	\$12,793	\$13,100	\$13,320	\$14,468	\$14,760
<p><b>Description:</b></p> <p>Base Level Data Automation (BLDA) consists of several standard Air Force-wide base level computer programs. These programs include automation support of base level functions such as 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), the migration to open systems architecture and software standardization at Defense Enterprise Computing Centers (DECC). These programs are key to the Air Force's global engagement strategy. They provide the war fighter with a "one-update-one time" data processing environment.</p> <p>Items for BLDA requested in FY03 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. <b>CARGO MOVEMENT OPERATIONS SYSTEM (CMOS):</b> 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. CMOS not only serves as the Air Force's base level system for command and control of cargo and passenger movements, but contributes significantly to the Global Transportation Network (GTN), the Department of Defense system for in-transit visibility. FY01-03 funds provide Radio Frequency (RF) Data Collection 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. <b>WING AUTOMATIC DATA PROCESSING (ADP) SUPPORT (WAS):</b> This program provides for Life Cycle Management of Standard Base Level Computer (SBLC) systems at Air Force installations worldwide. During both peace and wartime contingencies, all active duty Air</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE LEVEL DATA AUTOMATION PROGRAM			
<b>Description (continued):</b> Force bases are sustained and maintained with hardware/software tools and services that ensure effective communications between the users and the mainframe computers. This support extends to flight line maintenance, supply, accounting and finance, budget and personnel service systems. Additionally, Air National Guard, Air Force Reserve installations, and DECCs receive this same support to ensure a common operating environment of interoperability. This program maintains base computer capabilities but does not develop new systems or application code. FY01-03 funding continues to provide hardware upgrades and communications interfaces.					
<p>3. FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS): FAMS provides a data collection/information management system on fuel systems using state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations. FAMS provides numerous mission-related benefits: (1) assures inventory visibility of this critical war fighting commodity; (2) reduces accounting error rates; (3) mitigates personnel and property risks by eliminating fuel spills; (4) reduces USAF fuels management manpower; and (5) provides accurate data to support war planning. One hundred thirteen (113) manpower positions were previously taken out of the Air Force budget based on projected FAMS savings. FAMS eliminates much of the paperwork and manual input required for current fuels management processes, providing total asset visibility while improving cash flow, credit management, and permitting just-in-time deliveries of fuel supplies. 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 System (ADC/FDS) point of sale (POS) devices). In addition, FAMS provides an information management system that supports all users. At the Air Force level, FAMS enhances the aviation fuel tracking/billing system. FY01-03 funding continues the installation of 308 ATG devices and 3,170 ADC/FDS POS devices worldwide.</p>					
<p>4. STANDARD PROCUREMENT SYSTEM (SPS)/Paperless Contracting: No FY03 funding is requested.</p>					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. CMOS	A						321			475			1,478
2. WING ADP (WAS)	A						3,490			3,071			3,144
3. FAMS	A						9,016			9,260			8,171
4. SPS							{11,301}						
SPS COMM INFRASTRUCTURE	A						7,880						
ICS							3,421						
<b>TOTALS:</b>							24,128			12,806			12,793
<b>REMARKS:</b>													
		<b>P-1 ITEM NO</b> 51				<b>PAGE NO:</b> 126						Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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)										
FY01			AFMC/SSG	OPT/FP (2)	MULTIPLE	JUL 01	AUG 01			
FY02			AFMC/SSG	OPT/FP (2)	MULTIPLE	MAR 02	APR 02	Y		
FY03			AFMC/SSG	OPT/FP (2)	MULTIPLE	JAN 03	FEB 03	Y		
2. WING ADP ( WAS) (1)										
FY01			AFMC/SSG	OPT/FP (3)	MULTIPLE	OCT 00	NOV 00			
FY02			AFMC/SSG	OPT/FP (3)	MULTIPLE	OCT 01	NOV 01			
FY03			AFMC/SSG	OPT/FP (3)	MULTIPLE	OCT 02	NOV 03	Y		
3. FAMS (1) (6)										
FY01			AFMC/WR-ALC	OPT/FP (4)	MULTIPLE	NOV 00	JAN 01			
FY02			AFMC/WR-ALC	OPT/FP (4)	MULTIPLE	NOV 01	JAN 02			
FY03			AFMC/WR-ALC	OPT/FP (4)	MULTIPLE	OCT 02	DEC 02	Y		
4. SPS										
SPS COMM INFRASTRUCTURE (1)										
FY01			AFMC/SSG	OPT/FP (5)	MULTIPLE	DEC 00	APR 01			
<b>REMARKS:</b>										
1. Quantity/unit costs vary depending on configuration of each site.										
			<b>P-1 ITEM NO</b> 51				<b>PAGE NO:</b> 127	Page 1 of 2		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>						<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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
<p>2. Options to multiple contracts to include: FY00 Automatic Identification Technology II contract with Symbol Technologies, Inc., WPAFB, OH; Super Mini Contract with PRC Corp., Reston VA; along with GSA, BPA, IT Services and ULANA II. Award/delivery dates represent the date of first award/delivery.</p> <p>3. Options to multiple GSA Schedule contracts. Award/delivery dates represent the date of first award and delivery.</p> <p>4. Options to multiple contracts to include the following companies: Syn-Tech, Tallahassee, FL; Trans-Flo Instruments Ltd, United Kingdom; Alsom Automation Systems, Cannonsburg, PA; Barton Instrument Systems, City of Industry, CA. Award/delivery dates represent the date of first award/delivery.</p> <p>5. Options to Desk Top V and Ulana standard contracts. Award/delivery dates represent the date of first award/delivery.</p> <p>6. FAMS switched from Aerospace Fuels under SA-ALC to DET 3 at WR-ALC/AFF effective 1 Oct 2001. This occurred because Kelly AFB, TX is being closed due to the Base Realignment and Closure (BRAC) decisions.</p>									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$54,835	\$46,962	\$56,202	\$56,928	\$60,099	\$57,598	\$51,064
<p><b>Description:</b></p> <p>In FY02, the North American Aerospace Defense Command (NORAD) received \$12 million as part of Defense Emergency Relief Fund (DERF). The funding is being used to purchase TBMCS equipment, licenses, and support for OPERATION NOBLE EAGLE. FY03 funding was added to continue TBMCS upgrades to NORAD command centers.</p> <p>THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS) is an integrated battle management system used to plan, execute and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at the Air Operations Center (AOC) (force level) and unit levels (operations and intelligence functions). 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 and unit levels. The TBMCS program integrated several "stovepipe" systems into a common operating environment, subsuming the functions of the Contingency Theater Automated Planning System (CTAPS), the Combat Intelligence System (CIS), and the Wing Command and Control System (WCCS). This integration provides a consistent software architecture that tightly streamlines the flow of information.</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 (intelligence) migrated into TBMCS, the funding for the earlier separate procurements (CTAPS and WCCS) was realigned under this program.</p> <p>TBMCS funds procure a full complement of equipment for initial unit level operations installations at four sites per year in FY01, three in FY02, and four in FY03. FY01-03 funding also procures hardware upgrades for fielded force and unit level (operations and intelligence) installations necessary to sustain operations and to support TBMCS software versions. FY01-03 funds also provide required software licenses, Type 1 training, interim contractor support, engineering support, and system program office support for TBMCS applications. Note: FY02 is the last year for Force level Type 1 factory training under this P-1 item. Type 1 training was transferred to the AOC program beginning in FY03.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM			
<b>Description (continued):</b>  Additionally, FY01 funds procured, integrated and deployed the Combat Integration Capability (CIC) into the AOCs to process time critical targets (TCT) during the execution of daily operations. The CIC allows 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. TBMCS is replacing CIS functionality with improved hardware and installation/integration support for intelligence systems required at the aircomponent/force and wing/squadron levels. FY01-03 funding procures commercial-off-the-shelf equipment and government furnished equipment to include user workstations, servers, mass data storage devices, printers, equipment supporting connectivity to the Defense Information Systems Network (DISN), and continued expansion of high-speed classified data transfer capability for tailored intelligence production.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)						DATE: FEBRUARY 2002							
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEM							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. TBMCS							{26,039}			{18,833}			{30,595}
A. FORCE	A						12,610			7,842			16,464
B. UNIT	A						8,556			7,563			10,075
C. CIC (TCT)	A						1,200						
D. CIS (INTEL)	A						3,673			3,428			4,056
2. COTS SOFTWARE LICENSES							4,162			5,626			11,236
3. TYPE 1 TRAINING (1)							13,267			9,408			894
4. INTERIM CONTRACTOR SUPPORT (ICS)							2,197			2,367			2,389
5. SYSTEM ENGINEERING							5,161			6,383			6,100
6. PROGRAM SUPPORT							4,009			4,345			4,988
<b>TOTALS:</b>							54,835			46,962			56,202
		<b>P-1 ITEM NO</b> 52				<b>PAGE NO:</b> 131						Page 1 of 2	

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>										<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT					<b>P-1 NOMENCLATURE:</b> THEATER BATTLE MANAGEMENT C2 SYSTEM								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
<b>REMARKS:</b> 1. Funding for TBMCS Type 1 training peaked in FY01 with the fielding of TBMCS core capabilities in Version 1.0.1. Continued Type 1 training remains an on-going requirement driven by the installation schedule and frequent software releases consistent with spiral development. TBMCS Force level Type 1 training funds are transferred to the Aerospace Operations Center (AOC) program in FY 03 and beyond.													
		<b>P-1 ITEM NO</b> 52				<b>PAGE NO:</b> 132						Page 2 of 2	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
1. TBMCS										
A. FORCE										
FY01 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	OCT 00	DEC 00			
FY02 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	JAN 02	MAR 02			
FY03 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	OCT 02	DEC 02	Y		
B. UNIT										
FY01 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	OCT 00	DEC 00			
FY02 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	JAN 02	MAR 02			
FY03 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	OCT 02	DEC 02	Y		
C. CIC (TCT)										
FY01 (1)			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (2)	NOV 00	JAN 01			
D. CIS (INTEL) (1)										
FY01			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	NOV 00	JAN 01			
FY01			HQ PACAF	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 00	JAN 01			
FY01			HQ ACC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 00	JAN 01			
FY02			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	JAN 02	MAR 02	Y		
		<b>P-1 ITEM NO</b> 52		<b>PAGE NO:</b> 133		Page 1 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
FY02			HQ PACAF	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 01	JAN 02			
FY02			HQ ACC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 01	JAN 02			
FY03			AFMC/ESC	OPT/IDIQ	GSA, MULTIPLE (3)	NOV 02	JAN 03	Y		
FY03			HQ PACAF	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 02	JAN 03	Y		
FY03			HQ ACC	OPT/IDIQ	GSA, MULTIPLE (3)	OCT 02	JAN 03	Y		
<b>REMARKS:</b> 1. Varying quantities and unit costs due to number/types of equipment being procured for specific sites. 2. 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. Option to basic contract with Lockheed-Martin awarded in Oct 1995. Award/Delivery dates reflect date of first award and delivery. 3. Multiple GSA contracts, including the CITPAD, for commercial off-the-shelf equipment are used. Due to more competitive pricing and delivery, the GSA contracts have been selected, at this time, as an alternative to the Sun Microsystems and Hughes contracts. Award/Delivery dates reflect date of first award and delivery.										
		<b>P-1 ITEM NO</b> 52			<b>PAGE NO:</b> 134			Page 2 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$178,915	\$155,012	\$214,727	\$294,865	\$473,679	\$575,080	\$773,441
<p><b>Description:</b></p> <p>The Base Information Infrastructure (BII) procurement line funds the Combat Information Transport System (CITS) program, Network Connectivity, Public Key Infrastructure (PKI), and Global Combat Support System - Air Force (GCSS-AF) Integration Framework fielding and infrastructure.</p> <p>In FY02, Congress added \$2 million for a digital switched system with integrated telephone and radio capability for Air Force Reserve Command (AFRC) command posts and wing operation centers. Reference Appropriations Conference Report 107-350, Dec 19, 2001, page 293.</p> <p>In FY02, Combat Information Transport System received \$21.15M as part of the Defense Emergency Relief Fund (DERF). Funding was used to provide telephone firewalls for active duty Air Force bases, purchase high speed firewalls, and standardize MAJCOM and AF Network Operations and Security Center tools and reporting procedures in support of operations ENDURING FREEDOM, HOMELAND DEFENSE and NOBLE EAGLE.</p> <p>For FY03, base communications received significant increases to fund this mission area at the level required to meet essential needs for voice, video and data services at wing level. The growing demand for infostructure and more robust data transmission at wing level is being met through investment dollars in the CITS program which is installing high-speed fiber, modern telephone switches, robust Network Control Centers/Network Operations and Security Centers, and the latest information assurance tool sets. Increasing security demands require procurement of encryption devices for information networks and expand the number of Secure Internet connections for critical Command and Control (C2) and mission support base customers.</p> <p>1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS): CITS is the Air Force component of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII). CITS will modernize the information transport capability at the base level by replacing</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> maintenance intensive equipment, replacing or upgrading existing voice switching systems, providing network management of information systems, increasing the capacity of saturated information transmission systems, and providing information protection tools. The program provides secure fiber installations to buildings at Air Force locations. This infrastructure ensures the warfighter and wing command center full access to real-time command and control (C2) information during contingencies. Lack of C2 access would severely limit reach-back capability supporting deployable forward footprint-push/pull information capability and impede proactive information protection countermeasures to support collaborative information exchange. The program includes four product areas which are centrally funded and managed by the CITS Program Office. The product areas are described below:  a. INFORMATION TRANSPORT SYSTEM (ITS): The ITS product area implements and keeps technologically current a broad-band, fiber-optic digital information transport network to provide near-instantaneous information transfer for each base and selected geographically separated units (GSUs). The system will have sufficient capacity to meet the classified and unclassified data, voice, video, imagery, and telemetry requirements at each fixed location. Most Air Force bases have an existing infrastructure that is incapable of supporting the current and future communications needs of the warfighter. Initial capability will include data transport with other media, incorporated as technology and funding permit. Integration of AF and joint information operations will allow immediate threat awareness and impact, intelligence gathering and assessments and other relevant situational awareness of the battlespace. The system will further expand the Secure Internet Protocol Router Network (SIPRNET) infrastructure, the backbone to joint and coalition warfighting. FY01-03 funds direct mission support and procures the initial phase of ITS installation projects for the highest priority bases. Installs may include: fiber optic backbone, network equipment, encryption devices, virtual private networks, voice and video interfaces, building wiring, training, test and support. Any delay in ITS installation will impact the schedules of several C2 and combat support automation modernization programs dependent upon the in-place fiber optic ITS infrastructure.  b. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROTECT (NMS/BIP): The NMS/BIP product area delivers and keeps technologically current a modern network management system for base Network Control Centers, MAJCOM Network Operations and Security Centers, and the Air Force's enterprise entities (AF Network Operations Center, AF Computer Emergency Response Center, and enterprise level technical support) (Note within this period these units may form the AF Network Operations and Security Center). NMS/BIP supports the International Standards Organization's (ISO) five network management functions: fault management, configuration management,					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<p><b>Description (continued):</b></p> <p>performance management, accounting management, and security management. The products assure integrity of information systems in the face of attack and assist with defense against cyber attacks on critical defense-related infrastructure. NMS/BIP provides the information assurance, network management, and telephonic management tools for each Air Force base to detect, deter, isolate, contain, reconstitute, and recover from information systems and network security intrusions or attacks and keeps these tools current with the threat. The tools enable information integrity, security, and confidentiality to be maintained while passing information across the infostructure (networks, servers, clients). Situational awareness of the infostructure is provided via a Common Operational Picture (COP). The efforts in this product area will begin to close all known holes in AF's protective net by 2007, deploys analytical suites, develops automated tools to dynamically detect and respond to network intrusions, develops roadmap for creating self aware networks to prevent threat based or equipment based network degradations or outages, standardizes AF and MAJCOM level operations centers, and provides critical training and support needed to fight cyber threats. The CITS Program Office leverages the experience of industry-leading network companies and government organizations to provide best value for the Air Force. FY01-03 funds procure direct mission support and continue the installation and support of critical information equipment capabilities in fixed-based and deployed installations worldwide. Additionally, standard network management and trouble ticketing solutions will be provided.</p> <p>c. VOICE SWITCHING SYSTEM (VSS): The VSS product area, formerly Digital Switch System (DSS), provides technology upgrades, line expansion 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 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. Funding ensures bases will have this initial capability and plans for new mission growth and increasing demands for fax machine and secure telephone dial-in connectivity. FY01-03 funds direct mission support and procures upgrades for 201 main base switches plus switch upgrade projects in AF inventory as required, bringing them to the manufacturer's current release.</p> <p>d. TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS): This product area acquires, fields and supports automated telecommunications management systems integrating telephone subscriber, connectivity, and equipment data. TMS uses a secure client/server architecture and a relational database to increase productivity while reducing cost. System functionality includes charge-back billing, automated</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE			
<b>Description (continued):</b> call collection and fault management, unattended call rating, configuration management, telephone directory generation, online directory assistance, and extensive tracking and reporting options. TMS may be stand-alone or connected to base networks; it interfaces directly with the VSS. FY01-03 funds direct mission support and procures TMS for multiple Air Force bases. Funding is critical for automation of bases which are using disparate, manual methods to accomplish the same work.					
2. NETWORK CONNECTIVITY: No FY03 funds requested.					
3. PUBLIC KEY INFRASTRUCTURE (PKI): A Department of Defense (DoD) PKI Program was mandated by the Deputy Secretary of Defense on 8 Aug 97. PKI provides non-repudiation, user identification, and confidentiality for government electronic business. FY01-03 funds procure infrastructure computers and Air Force-wide public/private key hardware/software needed to generate, certify, and distribute public/private key pairs for computer applications requiring information assurance capabilities (digital signatures and data encryption). Funds will support the initial stand up and operational support of registration, training and awareness, directories for certificates, and end user hardware and software required to support Air Force's implementation of DoD PKI.					
4. GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE (GCSS-AF): GCSS-AF provides the warfighter with timely, accurate and trusted combat support information needed to execute throughout the full spectrum of Air Force and Joint operations. GCSS-AF is based on web technology with an emphasis on componentization of common capabilities. Componentization reduces the AF cost of developing systems by providing previously established common capabilities. Security using PKI and Directory Services will be integrated into the overall architecture so it will not need to be developed for each system residing on GCSS-AF. FY02/03 funding procures the integration framework (architecture) to be fielded AF-wide. The current plan calls for fielding the framework at three Defense Information Systems Agency (DISA) Defense Enterprise Computing Centers, one each in CONUS, Europe and Asia with possible expansion to two or more CONUS sites. Fielding will install application, security, web, messaging, and proxy servers, software and its associated licenses at the chosen sites. Additionally, fielding will provide six "ship sets" of deployable hardware and software.					
5. Air Force Systems Networking (AFSN). Modernizes and sustains intra-base communication networks. Provides the infostructure gateway to DISA's Defense Information System Networks. Accomplishes systems engineering functions to ensure end-to-end solutions are developed to					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE		
<b>Description (continued):</b> meet the warfighter's communication needs. FY03 funding standardizes classified and unclassified gateway routers to ensure the latest operating systems are in place. This standardized architecture is necessary to thwart existing and emerging threats and to improve daily operations				
	<b>P-1 ITEM NO</b> 53		<b>PAGE NO:</b> 139	Page 5 of 5

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS)					\${156,577}		\${141,848}		\${198,410}
A. INFORMATION TRANSPORT SYSTEM (ITS) (1)	A			9	\$107,396	16	\$105,713	13	\$108,324
B. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROTECT (NMS/BIP) (1)	A			106	\$34,820	106	\$18,385	106	\$67,928
C. VOICE SWITCHING SYSTEM (VSS)				203	\$10,568	205	\$15,995	212	\$17,753
D. TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS) (1)	A			7	\$3,793	4	\$1,755	11	\$4,405
2. NETWORK CONNECTIVITY	A				\$5,800		\$3,888		
3. PUBLIC KEY INFRASTRUCTURE (PKI)	A				\$16,538		\$4,553		\$4,117
4. GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE	A						\$4,723		\$10,861
5. AIR FORCE SYSTEMS NETWORKING	A								\$1,339
<b>Totals:</b>					\$178,915		\$155,012		\$214,727
<b>Remarks:</b>  (1) Quantities indicate number of sites.									
		<b>P-1 ITEM NO</b> 53				<b>PAGE NO:</b> 140		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. COMBAT INFORMATION TRANSPORT SYSTEM (CITS)										
A. INFORMATION TRANSPORT SYSTEM (ITS)										
FY01 (1) (2) (3)	9		AFMC/ESC	DO/FFP	GENERAL DYNAMICS, NEEDHAM, MA; AVAYA, ST. PETERSBURG, FL; TRW, SAN ANTONIO, TX	OCT 00	DEC 00			
FY02 (1) (2) (3)	16		AFMC/ESC	DO/FFP	GENERAL DYNAMICS, NEEDHAM, MA; AVAYA, ST PETERSBURG, FL; TRW, SAN ANTONIO, TX	OCT 01	DEC 01			
FY03 (1) (2) (3)	13		AFMC/ESC	DO/FFP	GENERAL DYNAMICS, NEEDHAM, MA; AVAYA, ST. PETERSBURG, FL; TRW, SAN ANTONIO, TX	OCT 02	DEC 02	Y		
B. NETWORK MANAGEMENT SYSTEM/BASE INFORMATION PROTECT (NMS/BIP)										
FY01 (1) (2) (3)	106		AFMC/ESC	DO/FFP	EDS, HERNDON, VA; TRW, SAN ANTONIO, TX	NOV 00	JAN 01			
FY02 (1) (2) (3)	106		AFMC/ESC	DO/FFP	EDS, HERNDON, VA; TRW, SAN ANTONIO, TX	NOV 01	JAN 02			
FY03 (1) (2) (3)	106		AFMC/ESC	DO/FFP	EDS, HERNDON, VA; TRW, SAN ANTONIO, TX	NOV 02	JAN 03	Y		
C. VOICE SWITCHING SYSTEM (VSS)										
FY01 (1) (2) (3)	203		AFMC/ESC	DO/FFP	GENERAL DYNAMICS, NEEDHAM MA; LUCENT, GREENSBORO, NC	OCT 00	SEP 01			
FY02 (1) (2) (3)	205		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO, NC	JAN 02	DEC 02			
FY03 (1) (2) (3)	212		AFMC/ESC	DO/FFP	LUCENT, GREENSBORO, NC	OCT 02	DEC 02	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
D. TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS)										
FY01 (1) (2) (3)	7		AFMC/ESC	DO/FFP	TRW, SAN ANTONIO, TX	APR 01	OCT 01			
FY02 (1) (2) (3)	4		AFMC/ESC	DO/FFP	TRW, SAN ANTONIO, TX	OCT 01	MAY 02			
FY03 (1) (2) (3)	11		AFMC/ESC	DO/FFP	TRW, SAN ANTONIO, TX; ACE*COM, GAITHERSBURG, MD	OCT 02	NOV 02	Y		
2. NETWORK CONNECTIVITY										
FY01 (2)			HQ AFCA	DO/FFP	MULTIPLE (4)	OCT 00	MAY 01			
FY02 (2)			HQ AFCA	DO/FFP	MULTIPLE (4)	OCT 01	MAY 02			
3. PUBLIC KEY INFRASTRUCTURE (PKI)										
FY01			AFMC/SSG	DO/FFP	MULTIPLE (5)	DEC 00	JAN 01			
FY02			AFMC/SSG	DO/FFP	MULTIPLE (5)	DEC 01	JAN 02			
FY03			AFMC/SSG	DO/FFP	MULTIPLE (5)	DEC 02	JAN 03	Y		
4. GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE										
FY02			AFMC/SSG	DO/FFP	MULTIPLE (6)	OCT 01	NOV 01			
FY03			AFMC/SSG	DO/FFP	MULTIPLE (6)	OCT 02	NOV 02	Y		
5. AIR FORCE SYSTEMS NETWORKING										
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE INFORMATION INFRASTRUCTURE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY03			AFMC/SSG	DO/FFP	MULTIPLE (7)	OCT 02	NOV 02	Y		
<b>REMARKS:</b> 1. Quantities reflect number of fixed-based, deployed installations, or number of installation projects. Quantities may vary based on MAJCOM operational requirement changes. 2. Unit cost varies because of number/types of equipment being procured based upon site layout, number of users, data throughput, cable lengths, etc. 3. Award/delivery dates reflect date of first award and delivery. 4. Multiple contractors will be used to procure Network Connectivity equipment. Award/delivery dates reflect date of first award and delivery. Contracts are executed off Standard Systems Group Commercial Information Technology-Product Area Directorate (CIT-PAD). Typical contractors include EDS, Herndon, VA; TRW, San Antonio, TX; General Dynamics, Needham, MA. 5. Multiple options to existing contracts or delivery orders from the GSA schedule (CIT-PAD) will be used to satisfy contracting requirements. Quantities/unit costs vary because of different types of equipment being procured. Award/delivery dates reflect date of first award and delivery. 6. Multiple contractors via CIT-PAD. Typical vendors are Sun Microsystems, Palo Alto, CA and Dell, Round Rock, TX. Award/delivery dates reflect date of first award and delivery. 7. Multiple options to existing contracts or delivery orders from the GSA schedule (CIT-PAD) will be used to satisfy contracting requirements/mission needs. Quantities/unit costs vary because of different types of equipment being procured. Award/delivery dates reflect date of first award and delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> USCENTCOM				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$8,285	\$10,792	\$9,839	\$7,680	\$8,074	\$7,886	\$8,016
<p><b>Description:</b></p> <p>The Air Force is the executive agent for US Central Command (USCENTCOM). USCENTCOM is geographically separated from its area of responsibility (AOR) by over 7,000 miles. In order to meet its mission responsibilities despite that geographical handicap, USCENTCOM relies on command, control, communications and computer (C4) systems capable of achieving full spectrum information superiority. The US Commander-in-Chief Central Commands' (CINCCENT) warfighting Command Automation System provides the necessary automated systems for command and control of all assigned forces.</p> <p>Items requested in FY03 are identified on the attached P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. <b>USCENTCOM COMMAND AND CONTROL SYSTEMS:</b> This program procures essential C4 systems in support of deployed forces as well as garrison-based contingency and peacetime operations. FY01-03 funds continue to provide for modernization of communications and automation systems, including procurement of USCENTCOM-specific Global Command and Control System (GCCS) equipment, commercial satellite communications equipment, telephone switches, Command Center Demand Assigned Multiple Access-compliant radios, network management equipment and software, coalition interoperability local area networking equipment, information assurance equipment and software, and enterprise software licenses.</p> <p>2. <b>JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE):</b> JCSE, assigned under US Joint Forces Command, is the only joint Department of Defense (DoD) unit specifically formed to provide C4 systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. FY01-03 funds provide the Air Force's (AF) one-third share to procure C4 equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters. Equipment requirements are approved annually by the JCS and procurement for the AF share is executed by JCSE through the Executive Acquisition Agent (Air Force).</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> USCENTCOM			
<b>Description (continued):</b>  3. AIR FORCE SPECIAL OPERATIONS COMMAND (AFSOC) DEPLOYABLE C3 UNITS: FY03 funding will be used to replace AFSOC's aging International Maritime Satellite Terminals (INMARSAT) inventory with fully integrated systems to allow for a single-man-lift, easily deployable, and secure access to voice/data networks from bare base environments. This is a small network access package incorporating a high speed voice and data reach back. Systems will provide worldwide ability for survey teams to transmit secure data directly back to a Continental US (CONUS) based server near real time. Planners will have immediate and up-to-date access on numerous locations around the world.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> USCENTCOM					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. USCENTCOM COMMAND AND CONTROL SYSTEMS	A				\$5,400		\$5,751		\$3,472
2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	A				\$2,885		\$5,041		\$5,890
3. AFSOC DEPLOYABLE C3 UNITS	A								\$477
<b>Totals:</b>					\$8,285		\$10,792		\$9,839
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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										
FY01			USCENTCOM	C/FFP	MULTIPLE (2)	DEC 00	FEB 01			
FY02			USCENTCOM	C/FFP	MULTIPLE (2)	DEC 01	JAN 02			
FY03			USCENTCOM	C/FFP	MULTIPLE (2)	DEC 02	JAN 03	Y		
2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)										
FY01			11WING	C/FFP	MULTIPLE (2)	FEB 01	JUL 01			
FY02			11WING	C/FFP	MULTIPLE (2)	FEB 02	JUL 02			
FY03			11WING	C/FFP	MULTIPLE (2)	FEB 03	JUL 03	Y		
3. AFSOC DEPLOYABLE C3 UNITS										
FY03			HQ AFSOC	C/FFP	MULTIPLE (2)	FEB 03	JUL 03	Y		
<b>REMARKS:</b> 1. Quantities and unit costs vary because multiple types of equipment are being procured. 2. Multiple contract awards for small acquisitions through different government contracts and contracting agencies, for example: 6th Contracting Squadron, MacDill AFB, FL; NSA, Ft Meade, MD; PM-MILSATCOM, Ft Monmouth, NJ; and SPAWAR, North Charleston, SC. Contractor/vendor examples: GTE, Needham Heights, MA; Booz-Allen Hamilton, St. Inigoes, MD; MITRE, Fort Monmouth, NJ; SAIC, San Diego, CA; Microsoft, Charlotte, NC; Sun, McLean, VA; Xerox, Tampa, FL; LNR, Hauppauge, NY; and NISE East, Portsmouth, VA. Award/delivery dates reflect date of first award and delivery.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DEFENSE MESSAGE SYSTEM (DMS)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$17,780	\$13,243	\$18,967	\$19,308	\$19,508	\$19,857	\$20,255
<p><b>Description:</b></p> <p>This program acquires equipment necessary to implement Air Force (AF) email/messaging requirements for the Defense Message System (DMS). Items requested in FY01-03 are identified on the attached P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. The DMS provides essential capabilities to carry on the wartime and peacetime missions of the AF in lieu of the base telecommunications centers and Automatic Digital Network (AUTODIN) switches. DMS is replacing AUTODIN, which will terminate in FY03.</p> <p>Per the Joint Operational Requirements Document, record messaging communicates and documents command and control directives, agreements, financial data, and other mission essential data while providing users with confidence that the message is authentic, credible, and traceable back to the originator. DMS provides these assurances while maintaining the look, feel, and simplicity of e-mail. All features of DMS must be operational and extended to all users in order to terminate AUTODIN. This transition will occur in three distinct phases:</p> <ul style="list-style-type: none"> <li>- All Top Secret/Collateral (TS/C) and below General Service (GENSER) non-Special Category/Special Handling Designator (SPECAT/SHD) users transitioned 30 Jun 01 (90 percent of Air Force users are in this category)</li> <li>- All SPECAT/SHD users (approximately 5 percent of Air Force users) will transition within 6 months of the version 3.0 fielding decision (expected in FY02)</li> <li>- Remaining users (intelligence and allied communities) will transition by the end of FY03</li> </ul> <p>Without DMS funding, the AF will not have the capability to support the operational community's message requirements and would have an increased susceptibility to information operations attacks conducted by only a mildly sophisticated adversary. These attacks could easily induce significant confusion into operations, increasing the likelihood of American casualties.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> DEFENSE MESSAGE SYSTEM (DMS)			
<b>Description (continued):</b> <p>1. DMS COMPONENTS: FY01-03 funding continues all DMS efforts at 90 Air Force bases and 243 sub-sites. Efforts include engineering/installation services, DMS software upgrades, message-handling capability, and initiation of a critical technical refresh program intended to ensure DMS hardware is capable of continued mission support through the maturation of software. User communities are now being transitioned to DMS services. Funding levels must be maintained as DMS transitions to the system of record.</p> <p>2. DMS SECURITY: No FY03 funds requested.</p> <p>3. DEPLOYABLE DMS: Deployable DMS provides the warfighter with the same messaging capability whether deployed or in-garrison. Due to Expeditionary Air Force restructuring and the addition of requirements for US Central Command, the Air National Guard and test facilities, the number of units requiring deployable packages increased by 27 percent over previously reported estimates to 148 units. In order to meet mission requirements, the deployment suite equipment package was modified to ruggedize components and add critical peripheral equipment. FY01-03 funding continues DMS deployment to 70 percent of the remaining deployable units and adds mission essential components, which provide minimum support to in-theater, deployed forces. Until these remaining components are provided, the deployed units will have to reach back to CONUS for these specialized capabilities, straining deployed bandwidth resources.</p>					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DEFENSE MESSAGE SYSTEM (DMS)					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. DMS COMPONENTS	A				\$11,073		\$9,438		\$15,204
2. DMS SECURITY					\${1,550}				
A. FORTEZZA	A				\$800				
B. GUARDS	A				\$750				
3. DEPLOYABLE DMS	A				\$5,157		\$3,805		\$3,763
<b>Totals:</b>					\$17,780		\$13,243		\$18,967
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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 COMPONENTS (1)										
FY01			AFMC/SSG	OPT (2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 00	FEB 01			
FY02			AFMC/SSG	OPT (2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 01	FEB 02			
FY03			AFMC/SSG	OPT (2)/FFP	LOCKHEED-MARTIN CORP., MANASSAS, VA	DEC 02	FEB 03	Y		
2. DMS SECURITY (1)										
A. FORTEZZA										
FY01			AFMC/SSG	MIPR/FFP	NAVY/MYKOTRONX, TORRANCE, CA	APR 01	MAY 01			
B. GUARDS										
FY01			AFMC/SSG	MIPR/FFP	NSA, FT. MEADE, MD	APR 01	MAY 01			
3. DEPLOYABLE DMS (1)										
FY01			AFMC/SSG	OPT (3)/FFP	TRW, SAN ANTONIO, TX	APR 01	MAY 01			
FY02			AFMC/SSG	OPT (3)/FFP	TRW, SAN ANTONIO, TX	APR 02	MAY 02	Y		
FY03			AFMC/SSG	OPT (3)/FFP	TRW, SAN ANTONIO, TX	APR 03	MAY 03	Y		
<b>REMARKS:</b> 1. Quantities and unit costs vary due to different site configurations. 2. Option to Lockheed-Martin Corp., Manassas VA contract awarded Oct 96. 3. Option to TRW, San Antonio, TX awarded April 99.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$9,837	\$3,975	\$13,110	\$4,324	\$4,325	\$4,702	\$1,043
<p><b>Description:</b></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 comprised of three segments: (1) satellites, (2) a control network and (3) user equipment (UE). The satellites broadcast high accuracy data using precisely synchronized signals that are received and processed by UE installed in military platforms. The control network updates the navigation messages broadcast from the satellites to provide system vectors to target location or navigational way points. Air Force UE consists of 5-channel handheld sets, Precision Lightweight GPS Receiver (funded in Other Procurement, Air Force appropriation), and 5-channel airborne sets (funded in Aircraft Procurement appropriation).</p> <p>1. <b>PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR):</b> 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. This non-developmental item supports Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordnance Disposal Teams, Security Police and Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for anti-jam communications systems. The Air Force has lead service responsibility for PLGR procurement. FY01-03 funding will extend the PLGR warranties.</p> <p>2. <b>KEY DATA LOADING INSTALLATION FACILITY (KLIF)/GPS SECURITY DEVICE:</b> FY01-03 funding provides for programming of black key algorithms into Selective Availability Anti-Spoofing Module (SAASM) chips, providing an accurate positioning solution for GPS users using secure equipment.</p> <p>3. <b>DEFENSE ADVANCED GPS RECEIVER (DAGR):</b> DAGR, the follow-on to the PLGR, will be a handheld self-contained GPS receiver with precise positioning using SAASM. It will be interoperable with the PLGR existing interfaces and support equipment so that present integration and support capabilities are minimally affected. DAGR will be primarily used in the stand alone mode, in wheeled and tracked</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NAVSTAR GPS SPACE			
<b>Description (continued):</b> vehicles, in airborne and air-drop operations, and in weapons integration. The FY03 funding procures the First Article Test (FAT) units.  4. <b>HANDHELD TESTING SUPPORT:</b> FY01-03 funding provides testing support for the next-generation user equipment concepts (DAGR), as well as the current GPS handheld receiver (PLGR). Testing includes engineering change proposals, characterization, and product improvements for PLGR and DAGR.  5. <b>ALTERNATE MASTER CONTROL STATION (AMCS):</b> FY03 funds purchase a complete suite of Master Control Station equipment needed to provide a geographically separate back-up command and control center at Vandenberg AFB, CA. These funds will be used to buy workstations, mission file servers, high-speed routers, network printers, high-capacity storage devices and a Fiber Distributed Data Interface (FDDI) local area network. It also pays for all the labor associated with installing the new Operational Control Segment (OCS) Version 5.2 software and performing any needed equipment installation and acceptance tests.  6. <b>TELECOMMUNICATION SIMULATOR TEST STATION (TSTS) AUGMENTATION.</b> The purpose of this effort is to augment the existing TSTS, which is used for GPS test and evaluation purposes, by adding a second suite of equipment. This will alleviate the current contention for Cape Canaveral, FL test assets which currently exists between the developmental and operational test communities. The specific equipment to be purchased include a dual-string Ground Antenna Test Simulator (GATS), a Monitor Station Test Simulator (MSTS) with a cesium-based Frequency Standard Subsystem (FSS), a computer-controlled antenna switching mechanism, an improved computer-based antenna simulator, and a transportable shelter to house all the new equipment. It also includes equipment installation and qualification; the effort to move the existing TSTS S-band antenna to make room for the new shelter; and the cost to provide updated TSTS technical drawings, maintenance training, and maintenance manuals. FY01 funds were received in FY02 after Congressional approval for an above threshold reprogramming action was granted in December 2001.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: NAVSTAR GPS SPACE								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
NAVSTAR GPS							{9,837}			{3,975}			{13,110}	
1. PLGR WARRANTY EXTENSION							121			98			121	
2. KLIF/GPS SECURITY DEVICES							644			705			823	
3. DAGR	A												3,150	
4. HANDHELD TESTING SUPPORT							872			3,172			163	
5. ALTERNATE MASTER CONTROL STATION (AMCS)	A												8,853	
6. TSTS AUGMENTATION	A						8,200							
<b>TOTALS:</b>							9,837			3,975			13,110	
<b>REMARKS:</b>														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
3. DAGR										
FY03			AFSPC/SMC	OPT/FFP	UNKNOWN	MAY 03	NOV 03	N	DEC 01	
5. ALTERNATE MASTER CONTROL STATION (AMCS)										
FY03			AFSPC/SMC	SS/CPFF	BOEING NORTH AMERICA, SEAL BEACH, CA	OCT 02	DEC 02	Y		
6. TSTS AUGMENTATION										
FY01			AFSPC/SMC	MIPR/OPT/CPFF	DRAPER LABORATORY, CAMBRIDGE, MA	MAR 02	JUN 03	Y		
REMARKS:										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM (NDS) SPACE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$2,571	\$8,411	\$7,937	\$12,666	\$11,853	\$12,289	\$12,597
<p><b>Description:</b></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 Air Force Space Command (AFSPC) {Integrated Tactical Warning and Attack Assessment (ITW/AA)}, US Strategic Command (USSTRATCOM) (Nuclear Force Management), and the Air Force Technical Applications Center (AFTAC) (Treaty Monitoring). USNDS consists of space and ground mission-processing segments. The space segment consists of NUDET detection sensors on both the Global Positioning System (GPS)/Nuclear Detonation System (NDS) satellites and the Defense Support Program (DSP)/NDS satellites. The ground mission processing segment consists of the Integrated Correlation and Display System (ICADS), Ground NDS Terminals (GNT), and the DSP/NDS Advanced Radiation Detection Units (ARDU).</p> <p>The GNT processes raw NDS sensor data and is the only system that provides survivable NUDET detection, analysis, and reporting to the President and Secretary of Defense. The ICADS receives daily navigation update messages and NUDET detection mission data from the satellites. Presently, the USNDS supports national level missions for US Space Command (USSPACECOM), USSTRATCOM, Air Combat Command (ACC), AFTAC, President, Secretary of Defense, and Congress. NUDET reporting is required for the ITW/AA, Nuclear Force Management, and nuclear test ban treaty monitoring missions.</p> <p>ICADS UPGRADES: FY01 funding provided for continued ICADS upgrades to enhance compatibility with the new Block IIF GPS satellites and specifically to process the detection data of the new Block IIF satellites. FY02 funding continues upgrades, including 20 Integrated Data Denial (IDD) boxes and associated software that will be built for use by ICADS and GNT to decrypt IIF data. The Integrated Wide Area Network (IWAN) will be upgraded with six additional terminals and respective software to aid in overall IIF software development and testing. FY03 funding will provide for computer upgrades to the test bed and development system.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM (NDS) SPACE		
<b>Description (continued):</b> GNT UPGRADES: FY02 funding begins GNT upgrades to process the detection data of the new Block IIF satellites. Nine GNT status alarm systems will be incorporated into all Mobile Command and Control Center (MCCC) GNT trailers. These alarm systems will notify operators of malfunctions to the GNT. FY03 funding will provide for computer upgrades for the test bed and development system.				
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NUDET DETECTION SYSTEM (NDS) SPACE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. ICADS UPGRADE	A				\$2,571		\$7,549		\$6,962
2. GNT UPGRADE	A						\$862		\$975
<b>Totals:</b>					\$2,571		\$8,411		\$7,937
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: NUDET DETECTION SYSTEM (NDS) 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. ICADS UPGRADE (1) (2)										
FY01			AFMC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB ALBUQUERQUE, NM	DEC 00	DEC 01			
FY02			AFMC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB ALBUQUERQUE, NM	DEC 01	DEC 02			
FY03			AFMC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB ALBUQUERQUE, NM	DEC 02	DEC 03	Y		
2. GNT UPGRADE (1) (2)										
FY02			AFMC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB ALBUQUERQUE, NM	DEC 01	DEC 02			
FY03			AFMC/SMC	MIPR/OTH/OTH	DOE SANDIA NATIONAL LAB ALBUQUERQUE, NM	DEC 02	DEC 03	Y		
<b>REMARKS:</b> 1. Unit costs and quantities vary due to multiple types of computer hardware being procured. 2. The contract type to the Department of Energy (DOE) Sandia National Laboratory is cost reimbursement.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$15,694	\$29,471	\$45,063	\$44,567	\$45,538	\$53,502	\$52,348
<p><b>Description:</b></p> <p>The Air Force Satellite Control Network (AFSCN) is a global infrastructure of control centers, Remote Tracking Stations (RTS), and communications links that provide the highly reliable command, control, and communications range systems required to support the nation's surveillance, navigation, communications, and weather satellite operations. The AFSCN is the DoD common user network providing satellite state-of-health, tracking, telemetry, and commanding (TT&amp;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 (MILSTAR) Satellite, Skynet, North Atlantic Treaty Organization (NATO), and classified program systems. 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, control and communications (C3), and range elements of the AFSCN. These technological upgrades will ensure DoD space systems will be operationally ready to support future Commanders-in-Chief (CINC) warfighting requirements.</p> <p><b>AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&amp;M):</b> AFSCN I&amp;M is an on-going program of replacements and upgrades which will meet Air Force Space Command (AFSPC) operational requirements to replace non-standard, unsupportable equipment with commercial-off-the-shelf (COTS) and COTS-based hardware and software. This new equipment will dramatically reduce AFSPC satellite operations hardware/software (HW/SW) maintenance. The Satellite Control Network Contract (SCNC), awarded in Dec 01, will be the primary vehicle for this program. Principal efforts within AFSCN I&amp;M include:</p> <p style="margin-left: 40px;">A. <b>COMMAND &amp; CONTROL SYSTEM (NETWORK OPERATIONS) UPGRADES:</b> These network management upgrades build upon the Electronic Schedule Dissemination (ESD) and Orbital Analysis Subsystem (OAS) which replaced the former manpower-intensive</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE			
<b>Description (continued):</b> scheduling system and telemetry allocation systems. The ESD provides AFSCN resource monitoring and schedule dissemination capability. The OAS provides for satellite collision avoidance capability. Both ESD and OAS utilize COTS HW and SW to the maximum extent possible. ESD and OAS resulted from the descope and restructure of the originally planned Resource Management System upgrade. FY02 funds procure equipment for an Orbital Analysis Service follow-on effort. This effort will upgrade the operational Radio Frequency Interference (RFI) prediction capability and satellite visibility/acquisition functions using COTS microcomputer technology, provide enhanced Collision Avoidance (COLA) functionality to increase the accuracy and speed of COLA deconfliction and reporting, and improve interfaces to resource scheduling systems and satellite operations centers. FY03 funds will procure equipment for the resource scheduling capacity upgrade.  B. RANGE AND COMMUNICATIONS UPGRADES: These projects will transition the current, point-to-point AFSCN communications network to a distributed communications system that integrates government and commercial networks, and will upgrade the aging equipment at the RTSs. Several standardization efforts are being implemented to improve and modernize the communications and range segment elements of the AFSCN, including antenna replacements and equipment upgrades at the RTSs. AFSCN capacity, reliability, data quality, and user access will be significantly improved. FY01 funds supported the ongoing antenna install efforts including procurement of a replacement antenna for the RTS located in New Boston, NH and communications cabling and associated equipment to sustain the RTS located in Kaena Point, HI. FY02 funds procure additional antenna systems, associated equipment to upgrade the RTSs, and equipment for a self-contained transportable resource to augment/replace the TT&C capabilities at an RTS during planned or unplanned outages. These interrelated efforts are now grouped together and will be referred to as the RTS Block Change. FY03 funds will procure additional antenna systems and associated equipment to continue to upgrade the RTSs and the RTS Block Change, and will procure equipment for external users to connect to AFSCN resources.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR FORCE SATELLITE CONTROL NETWORK SPACE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AFSCN I&M									
A. COMMAND & CONTROL SYSTEM (NETWORK OPERATIONS) UPGRADES	A						\$458		\$3,148
B. RANGE AND COMMUNICATIONS UPGRADES	A				\$15,694		\$29,013		\$41,915
<b>Totals:</b>					\$15,694		\$29,471		\$45,063
<p><b>Remarks:</b></p> <p>Quantities and unit costs vary due to different types/configurations of equipment being procured.</p>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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										
A. COMMAND & CONTROL SYSTEM (NETWORK OPERATIONS) UPGRADES (1)										
FY02			AFSPC/SMC	C/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS, MD (3)	DEC 01	JUN 02			
FY03			AFSPC/SMC	OPT/CPAF	HONEYWELL TECHNOLOGY SOLUTIONS, MD (3)	NOV 02	APR 03	N	MAY 02	
B. RANGE AND COMMUNICATIONS UPGRADES (1)										
FY01			AFSPC/SMC	OPT/CPAF	MULTIPLE (2)	APR 01	SEP 01			
FY02			AFSPC/SMC	C/CPAF	HONEYWELL TECNOLOGY SOLUTIONS, MD (3)	DEC 01	JUN 02			
FY03			AFSPC/SMC	OPT/CPAF	HONEYWELL TECNOLOGY SOLUTIONS, MD (3)	NOV 02	APR 03	N	MAY 02	
<b>REMARKS:</b> 1. Quantities and unit costs vary due to different types/configurations of equipment being procured. Delivery dates reflect first delivery date of multiple deliveries. 2. Multiple contractors include option to contract with Honeywell Corp, Colorado Springs, CO awarded Jan 95 and option to contract with Lockheed Martin, Sunnyvale, CA awarded Mar 96. Award and delivery dates reflect date of first contract award and delivery. 3. New Satellite Control Network Contract (SCNC) baseline										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM (SPACE)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$95,031	\$131,841	\$108,281	\$152,558	\$182,204	\$172,876	\$181,173
<p><b>Description:</b></p> <p>The Eastern Range (ER), at Patrick AFB, FL, and the Western Range (WR), at Vandenberg AFB (VAFB), CA, are the nation's primary Spacelift Ranges. They provide tracking, telemetry, control, communications, flight analysis, and other capabilities necessary to safely conduct national security, civil, and commercial spacelift operations; intercontinental and sea-launched ballistic missile evaluations; and aeronautical and guided weapons tests. Many of the range assets are outdated, unreliable, inefficient, and costly to operate and maintain.</p> <p>The Air Force (AF) is addressing range shortcomings through modernization and recapitalization efforts under the Spacelift Range System (SLRS) program. Modernization meets documented requirements for a standardized and automated spacelift range system to support the evolving launch mission. Recapitalization replaces deficient, obsolete, and difficult to sustain equipment with more efficient and reliable equipment. Together, these efforts will improve range responsiveness to launch demands, reduce operations and maintenance costs, enhance range safety, and standardize logistics support. Funding for the associated RDT&amp;E efforts is in Budget Activity 7, Operational Systems Development, PE 35182F, Project 674137.</p> <p>The AF is implementing range modernization and recapitalization through two related programs. First, the Range Standardization and Automation (RSA) Phase IIA program modernizes the control/display and communication segments of the ranges. Second, the Spacelift Range System Contract (SLRSC) modernizes the instrumentation segment of the ranges, and engineers and executes a proactive recapitalization process to replace hardware no longer efficient and sustainable. Following are details of the FY01-03 program:</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM (SPACE)			
<b>Description (continued):</b> <p>1. RANGE STANDARDIZATION AND AUTOMATION (RSA) Phase IIA: The RSA Phase IIA program modernizes the control/display and communications segments, to include: control and display, planning and scheduling, metric tracking, flight operations and analysis, range operations, communications, and weather equipment.</p> <p>The FY01 funds continued procurement of control and display and communication network products, to include the digital telemetry products that will convert the ranges from slow, expensive wide bandwidth analog telemetry to high-speed, inexpensive low bandwidth digital telemetry. The FY01 procurements also included upgrades to planning and scheduling, weather, communications, infrastructure, and flight safety products needed to evolve and deliver operational range capabilities. Additionally, FY01 funds continued to provide for Interim Contractor Support (ICS) and Interim Supply Support (ISS) until an organic Air Force sustainment capability is established. ISS included initial spares, support services, and collection of reprourement data.</p> <p>The FY02 funds continue procurement of control and display and communication network products, to include the digital telemetry products. These products provide simulation and the final planning and scheduling, infrastructure, and data format upgrades which add the ability to automatically commit and manage assets critical to range operations. FY02 funds also procure upgrades to weather, communications, and flight safety products needed to evolve and deliver operational range capabilities. Additionally, FY02 funds pay for evaluation and acceptance testing of RSA IIA products, as well as continuing ICS and ISS, to include initial spares, support services, and collection of reprourement data.</p> <p>The FY03 funds will continue procurement of control and display and communication network products, to include the digital telemetry products. These products provide simulation and the final planning and scheduling, infrastructure, and data format upgrades which add the ability to automatically commit and manage assets critical to range operations. FY03 funds also will procure upgrades to weather, communications, and flight safety products, as well as associated interface equipment, needed to evolve and deliver operational range capabilities and to facilitate activation of the Western Range Operations Control Center. In addition, FY03 funds will pay for evaluation and acceptance testing of RSA IIA products, continuing ICS support, as well as transition support to include support services, spares transition package, turnover of reprourement data, and transition common spares.</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM (SPACE)			
<b>Description (continued):</b> <p>2. SPACELIFT RANGE SYSTEM CONTRACT (SLRSC): The SLRSC completes range modernization efforts and implements proactive recapitalization efforts. It procures an integrated suite of automated instrumentation with associated test and interface equipment, downrange remote control assets, and follow-on control and display and communications systems, to complete the modernization effort. Also, it executes recapitalization projects to fix equipment deficiencies, replace aging equipment, control obsolescence, reduce problems with diminishing manufacturing resources, eliminate single points of failure, and reduce support costs. The recapitalization projects are based on collection and analysis of reliability, maintainability, and availability (RMA) data, prioritization of deficiencies by the range operators, and conformance with the long term SLRS architecture, to achieve the best overall return on investment. This process began in FY01.</p> <p>The FY02 SLRSC modernization funds procure instrumentation, to include: fixed and mobile telemetry equipment; fixed and mobile command destruct equipment; fixed and mobile optics and imaging equipment; radars; weather equipment; radio frequency monitoring equipment; and range surveillance equipment. FY02 funds procure associated test equipment, as well as associated interface equipment necessary to link instrumentation to the network segment and control and display segment, to implement the SLRS architecture. FY02 funds procure assets to enable centralized and local control of range instrumentation. FY02 funds also procure follow-on modernization of control and display systems and communications systems. Additionally, FY02 funds pay for evaluation and acceptance testing of SLRSC modernization products, as well as ISS, to include initial spares, support services, and collection of reprourement data.</p> <p>In FY03, SLRSC modernization funds will continue to procure instrumentation to include: fixed and mobile telemetry equipment; fixed and mobile command destruct equipment; fixed and mobile optics and imaging equipment; radars; weather equipment; radio frequency monitoring equipment; and range surveillance equipment. FY03 funds will continue to procure associated test equipment, as well as associated interface equipment necessary to link instrumentation to the network segment and control and display segment, to implement the SLRS architecture. FY03 funds will continue to procure assets to enable centralized and local control of range instrumentation. FY03 funds will also continue to procure follow-on modernization of control and display systems and communications systems. FY03 funds will buy interface equipment to support activation of the Western Range Operations Control Center. Additionally, FY03 funds will pay for evaluation and acceptance testing of SLRSC modernization products, as well as ISS, to include initial spares, support services, and collection of reprourement data.</p> <p>The FY01 recapitalization efforts focused on projects already underway or validated under the previous improvement and modernization</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACELIFT RANGE SYSTEM (SPACE)			
<b>Description (continued):</b> program, using preliminary RMA data to prioritize an extensive backlog of sustainment actions. They included, but were not limited to: continuing integration and testing of data/communications systems; continuing replacement of command destruct transmitters; replacing analog processors; and integrating and testing replacement telemetry systems.  The FY02 recapitalization efforts are based on RMA analysis, range operator priorities, and the SLRS architecture. They include, but are not limited to: replacing optics site computer systems; converting to digital range communications system; modifying command destruct systems to accommodate frequency changes; replacing down range data switches and radar control systems; replacing video data processing equipment; replacing command transmitter consoles; and replacing radar/telemetry site computers. Additionally, FY02 funds pay for evaluation and acceptance testing of SLRSC recapitalization products.  The FY03 recapitalization efforts again will be based on RMA analysis, range operator priorities, and the SLRS architecture. They will include, but are not limited to: replacing obsolete and unsupported modems and related data transmission equipment; correcting optical site computer operational deficiencies; correcting command transmitters tone balance and RF envelope deficiencies; replacing obsolete cyber net terminals; correcting timing signal deficiencies; replacing unmaintainable and obsolete GPS receivers; replacing obsolete telemetric antenna control units; improving inadequate and insufficient weather speed and direction sensors; replacing unsupported and maintenance intensive standard digital transport systems; replacing obsolete master station sensing computers; providing for integration of range safety data plotters; providing relief of saturated fiber cables; upgrading count distribution systems to allow interface with digital formats; and replacing high failure graphic workstations. Additionally, FY03 funds will pay for evaluation and acceptance testing and ISS, to include initial spares, support services, and collection of procurement data.					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)						DATE: FEBRUARY 2002							
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: SPACELIFT RANGE SYSTEM (SPACE)							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003		
		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) PHASE IIA						{74,893}			{34,628}			{44,268}	
EQUIPMENT/HARDWARE/SOFTWARE	A					63,008			24,628			32,464	
INTERIM CONTRACTOR SUPPORT (ICS)						7,770			9,250			9,525	
INTERIM SUPPLY SUPPORT (ISS)						4,115			750				
TRANSITION PACKAGE												2,279	
2. SPACELIFT RANGE SYSTEM CONTRACT (SLRSC)						{20,138}			{97,213}			{64,013}	
EQUIPMENT/HARDWARE/SOFTWARE	A								63,720			29,694	
RECAPITALIZATION						20,138			30,000			30,000	
INTERIM SUPPLY SUPPORT (ISS)									3,493			4,319	
<b>TOTALS:</b>						95,031			131,841			108,281	
<b>REMARKS:</b>													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: SPACELIFT RANGE SYSTEM (SPACE)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. RSA PHASE IIA (1) (2)										
FY 01			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN, SANTA MARIA, CA	OCT 00	JAN 01			
FY 02			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN, SANTA MARIA, CA	OCT 01	JAN 02			
FY 03			AFSPC/SMC	OPT/CPAF	LOCKHEED MARTIN, SANTA MARIA, CA	NOV 02	JAN 03	Y		
2. SPACELIFT RANGE SYSTEM CONTRACT (SLRSC) (1) (3)										
FY 01			AFSPC/SMC	C/CPAF	ITT INDUSTRIES, CAPE CANAVERAL, FL	NOV 00	APR 01			
FY 02			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES, CAPE CANAVERAL, FL	NOV 01	FEB 02			
FY 03			AFSPC/SMC	OPT/CPAF	ITT INDUSTRIES, CAPE CANAVERAL, FL	NOV 02	FEB 03	Y		
<b>REMARKS:</b> 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. Except for the FY01 SLRSC initial contract award, dates shown for each FY reflect first contract option award and delivery date for the contract in that fiscal year.  2. The RSA phase IIA contract, awarded in FY96, includes hardware procurement options for six years. Integration and interim contractor support activities will carry the contract through FY07. The contract has multiple options for various related product items.  3. The SRLSC has modernization options from FY02 through FY07 and additional systems engineering and depot level maintenance options through FY10. The contract has multiple options for various product items and depot level maintenance .										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$24,636	\$15,857	\$45,698	\$137,819	\$138,068	\$89,185	\$66,973
<p><b>Description:</b></p> <p>Military Satellite Communications (MILSATCOM) joint-service systems collectively provide a broad range of satellite communication capabilities, including secure, jam-resistant, 24-hour worldwide communications to meet essential strategic, tactical, and general-purpose operational requirements. MILSATCOM Terminals support communication requirements for the President and Secretary of Defense, Unified and Specified Commanders-in-Chief (CINCs), uniformed services, and defense agencies. Reference prior-year RDT&amp;E Budget Justification Exhibits for Program Element 03030601F for more information on terminal development efforts, except where otherwise noted.</p> <ol style="list-style-type: none"> <li>1. COMMAND POST TERMINALS (CPTs): No FY03 funds are requested.</li> <li>2. SINGLE-CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS: No FY03 funds are requested.</li> <li>3. SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T): No FY03 funds are requested.</li> <li>4. SCAMP/GROUND WAVE EMERGENCY NETWORK (GWEN): No FY03 funds are requested.</li> <li>5. ULTRA HIGH FREQUENCY (UHF) SATELLITE COMMUNICATIONS (SATCOM) TERMINALS: Increasing requirements for UHF satellite capacity and limited channel availability led the Joint Staff to mandate new UHF interoperability standards to improve satellite access and efficiency via Demand Assigned Multiple Access (DAMA). FY01 funds procured UHF ground DAMA terminals for various MAJCOM users and funded terminal upgrades, system engineering, and program support. FY02/03 funds continue program support, terminal upgrades/ancillary equipment, and system engineering.</li> </ol>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE			
<b>Description (continued):</b>					
<p>6. SUPER HIGH FREQUENCY (SHF) TERMINALS: SHF terminals operate over the Defense Satellite Communications System (DSCS) to support the command and control requirements of unified and specified CINCs and the connectivity requirements of the President, Secretary of Defense, US strategic and tactical forces, and the North Atlantic Treaty Organization (NATO). The Air Force is responsible for procuring terminal equipment for selected locations that form part of the ground segment. FY01-03 funds provide program support and procure equipment for modernizing the Jam-Resistant Secure Communications (JRSC) subnet of DSCS, including sensor sites and DSCS hub stations, to ensure interoperability with the Army, Navy, and Air Force. Equipment procurements includes ground terminal modernization kits, fiber optic modems, patch panels, timing sources, and interconnect facility links. The JRSC network provides jam-resistant, secure, nuclear-effects-protected MILSATCOM connectivity between selected Air Force facilities, the President, and the Secretary of Defense.</p>					
<p>7. GLOBAL BROADCAST SERVICE (GBS): This Air Force-led joint program implements a worldwide high-capacity satellite broadcast information system to provide a continuous one-way high-speed, high-volume flow of classified and unclassified data and imagery to garrisoned, deployed, or moving forces. GBS reduces Department of Defense (DoD) reliance on costly leased commercial satellite communications. GBS Receive Suites and Theater Injection Points will provide lower-echelon Air Force users with efficient high-data-rate in-theater and reachback connectivity to many distributed information sources via satellite-hosted GBS packages. See also the RDT&amp;E Budget Item Justification Sheet for Program Element 0603854F for FY01 and prior years and Program Element 0603804F beginning in FY02.</p>					
<p>a. GBS Receive Suites: The receive suites link users to information sources via GBS payloads hosted on UHF Follow-on (UFO) satellites offering near-worldwide service. FY01/02 funds procure ground receive suites and provide integration and installation, systems engineering, and program support. FY03 funds will continue systems engineering and program support.</p>					
<p>b. Wideband Gapfiller Satellite System (WGS) Primary Injection Points (PIPs): FY03 funds will begin this procurement, which provides for acquisition of new or modified uplink terminals and GBS broadcast management capability to support injection of GBS broadcast data through WGS satellites. The existing GBS PIPs are dedicated to the support of UFO/GBS satellites. The WGS uplink terminals will be dedicated to the support of WGS satellites and will provide connectivity from the GBS Satellite Broadcast Managers (SBMs) to WGS satellites for broadcast of GBS data to users worldwide. The acquisition effort will include engineering design, hardware procurement and integration, and system installation and checkout. FY03 funds will be used to procure one PIP and provide program support. See also Budget Project Activity Code</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE			
<b>Description (continued):</b> 644870 in the RDT&E Budget Item Justification Sheet for Program Element 0603854F, Wideband Gapfiller System (Space).  8. <b>COMMAND &amp; CONTROL SYSTEM - CONSOLIDATED (CCS-C):</b> <i>CCS-C will continue MILSATCOM satellite command and control capabilities after the Air Force Control Network CCS basic sustainment contract ends in FY03, providing automated control of satellite launch and on-orbit operations for existing satellites (DSCS, Milstar, and NATO) and systems in development (WGS and Advanced Extremely High Frequency [AEHF]). FY03 funds procure CCS-C production commercial-off-the-shelf (COTS) hardware and software for command and control strings, including computers, workstations, servers, cabling, and cryptologic equipment. Production equipment being procured is vital to replacing the existing CCS with the CCS-C system. Failure to provide this equipment will result in \$30-\$40M a year cost to sustain CCS, prevent AF after launch operations of the WGS, and delay AEHF launch dates due to lack of equipment to support AEHF launch and post launch operations. See also Budget Project Activity Code 644870 in the RDT&amp;E Budget Item Justification Sheet for Program Element 0603854, Wideband Gapfiller System (Space).</i>  9. <b>GROUND MULTI-BAND TERMINAL (GMT):</b> FY03 funds will begin this effort, which provides a terminal to support the warfighters' tactical communications requirements utilizing WGS, DSCS, and commercial satellite systems. The GMT provides the warfighter with flexible, lightweight, modular, scalable, integrated tactical quad-band SATCOM terminals operating in X, C, Ku and military Ka-band frequencies. The GMT replaces increasingly unsupportable Ground Mobile Force (GMF) terminals that are reaching end of life. FY03 funds will be used to procure terminals and provide system engineering and program support for various MAJCOM sites. Reference RDT&E Budget Justification Exhibits for Program Element 03030601F for more information on terminal development efforts,					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: MILSATCOM SPACE								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
1. COMMAND POST TERMINALS							{6,018}							
TERMINAL ENHANCEMENTS	A						4575							
SYSTEM ENGINEERING							797							
PROGRAM SUPPORT							646							
2. SCAMP TERMINALS							{101}							
PROGRAM SUPPORT							101							
3. SMART-T							{1,587}							
INTEGRATION AND INSTALLATION							807							
PROGRAM SUPPORT							780							
4. SCAMP/GWEN							{641}							
INTEGRATION & INSTALL							588							
PROGRAM SUPPORT							53							
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: MILSATCOM SPACE								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
5. UHF SATCOM TERMINALS							{9,497}			{6,862}			{1,726}	
DAMA GROUND TERMINALS	A				96	28,000	2,688							
PROGRAM SUPPORT							906			664			100	
TERMINAL UPGRADES/ANCILLIARY EQUIP	A						4,693			5,268			1,400	
SYSTEM ENGINEERING							1,210			930			226	
6. SHF TERMINALS							{2,242}			{1,387}			{1,271}	
DSCS/JRSC	A						2,042			1,022			905	
PROGRAM SUPPORT							200			365			366	
7. GBS							{4,550}			{7,608}			{22,199}	
A. GBS RECEIVE SUITES							{4,550}			{7,608}			{16,602}	
RECEIVE SUITES (1)	A				13	2,470	26	4,940						
INTEGRATION & INSTALLATION							509			858				
SYSTEM ENGINEERING							1,186			1,115			327	
PROGRAM SUPPORT							385			695			183	
B. WGS PIPS	B												16,092	

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: MILSATCOM SPACE									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003				
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
8. CCS-C															
HARDWARE/SOFTWARE STRINGS	B													5,597	
9. GROUND MULTI-BAND TERMINALS (3)														(20,502)	
GROUND TERMINALS	B													16,702	
SYSTEM ENGINEERING														2,700	
PROGRAM SUPPORT														1,100	
<b>TOTALS:</b>							24,636			15,857				45,698	
<b>REMARKS:</b> 1. GBS receive suite quantity and unit costs vary based on configurations and quantities purchased. 2. FY03 Ground Multiband Terminals buy consists of multiple configurations.															
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. COMMAND POST TERMINALS										
TERMINAL ENHANCEMENTS										
FY01			AFMC/ESC	OPT/FFP (1)	RAYTHEON, MARLBOROUGH, MA	JUL 01	NOV 02			
5. UHF SATCOM TERMINALS										
FY01			AFMC/ESC	MIPR/C/FFP (3)	RAYTHEON, FT. WAYNE, IN AND RAYTHEON, ST PETERSBURG, FL	JAN 01	JAN 02			
6. SHF TERMINALS (2)										
FY01			AFMC/ESC	MIPR/C/FFP	MULTIPLE (3)	FEB 01	DEC 01			
FY02			AFMC/ESC	MIPR/C/FFP	MULTIPLE (3)	MAR 02	MAY 02	Y		
FY03			AFMC/ESC	MIPR/C/FFP	MULTIPLE (3)	MAR 03	JUN 03	Y		
7. GBS										
A. GBS RECEIVE SUITES (5)										
FY01 (9)			AFMC/ESC	OPT/FFP (4)	RAYTHEON, RESTON, VA	FEB 02	NOV 02			
FY02			AFMC/ESC	OPT/FFP (4)	RAYTHEON, RESTON, VA	FEB 02	NOV 02			
B. WGS PIPS										
FY03			AFSPC/SMC	C/FFP	UNKNOWN	OCT 02	SEP 03	Y		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT	<b>P-1 NOMENCLATURE:</b> MILSATCOM SPACE
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ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
8. CCS-C									
HARDWARE/SOFTWARE STRINGS									
FY02			AFSPC/SMC	C/FFP	UNKNOWN (6)	FEB 02	AUG 02	Y	
FY03			AFSPC/SMC	C/FFP	UNKNOWN (6)	SEP 03	OCT 05	Y	
9. GROUND MULTI-BAND TERMINALS (7)									
FY03			AFMC/ESC	OPT (8)/FFP	HARRIS CORP., MELBOURNE FL	AUG 03	MAR 04	Y	

**REMARKS:**

1. Options to basic Command Post Terminal contract awarded May 93.
2. Quantities and unit costs vary because multiple types of equipment are being procured.
3. GSA/Army contracts with multiple contractors and multiple contract award/delivery dates. Award/delivery dates reflect first award and delivery dates.
4. Contract changed to FFP from CPAF in October 2001. Options to the basic research and development contract awarded in Nov 97.
5. GBS receive suite quantity unit costs vary based on configurations and quantities purchased.
6. Contracts for CCS-C RDT&E demonstrations were awarded in Feb 01 to TRW, Redondo Beach, CA, and Integral Systems, Lanham, MD. One of these competitors will be awarded the first CCS-C equipment procurement contract in Feb 02.
7. Quantities and unit cost varies due to procurement of multiple configurations..
8. Fixed price procurement option to GMT basic RDT&E contract awarded Jun 01.
9. FY01 funds have not been awarded to date for procurement of FY01 GBS Receive Suites as we are awaiting Congressional Approval from the HAC-D, SAC-D, HASC and SASC. A congressional notification letter was sent to Congress on 7 Nov 01 expressing the Air Force's decision to procure Receive Suites instead of a Theater Injection Point (TIP) in FY01.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$26,841	\$31,693	\$10,938	\$12,413	\$13,554	\$17,800	\$29,820
<p><b>Description:</b></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 occurs. Modifications requested in FY03 are identified on the attached P-40A and are representative of configuration changes/deficiency corrections to be accomplished. Modifications procured during execution may change based on critical changes/corrections needed to support current Air Force mission requirements.</p> <p>1. NAVSTAR GLOBAL POSITIONING SYSTEM (GPS): The NAVSTAR Global Positioning System 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 segments: the Space Segment (SS), the Operational Control Segment (OCS), the Navigation User Segment (NUS), and the Nuclear Detection Segment (NDS). The OCS segment requires modifications (described below) to replace high failure rate parts and preclude system operational degradation. Without these modifications, aging and obsolete equipment will continue to fail excessively and degrade system operational availability. Inaccurate navigation data will be transmitted to worldwide users, resulting in potential loss of life and/or operational equipment, including multi-million dollar satellites.</p> <p style="margin-left: 40px;">A. MOD #S605133, OPERATIONAL SUPPORT ENVIRONMENT (OSE) (previously Weapon Support System): No FY03 funding requested.</p> <p style="margin-left: 40px;">B. MOD #S5005800101, TRANSMITTER/EXCITER REPLACEMENT: No FY03 funding requested.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE	
<b>Description (continued):</b>			
C. MOD #T7215, MONITOR STATION TIMING SUBSYSTEM ENHANCEMENT (MSTSE): No FY03 funding requested.			
D. MOD # TBD, VERSION V MASTER CONTROL STATION (MCS) Upgrade. No FY03 funding requested.			
E. MOD #T7199, HIGH POWER AMPLIFIER (HPA). This modification will replace the existing Klystrons and increase the mean time between failure (MTBF) to approximately 8,000 hours. If not funded, downtime due to Klystron failures will continue to increase, resulting in inability to upgrade navigation data and satellite commands to the GPS constellation. Inaccurate navigation data will be transmitted to worldwide civilian and military users resulting in potential losses of life and/or operational equipment, including multi-million dollar satellites. FY03 funds procure the initial kit, including software changes and system integration.			
2. 474N SEA LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM: The 474N SLBM Detection and Warning System consists of the AN/FPQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and the AN/FPS-123 PAVE PAWS System (Phased Array Radars for SLBM Detection and Warning System). The primary mission is to provide the Cheyenne Mountain Complex (CMC) 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. PAVE PAWS consists of two operational sites: Site I at Cape Cod, MA and Site II at Beale AFB, CA.			
A. AN/FPQ-16 PERIMETER ACQUISITION RADAR ATTACK CHARACTERIZATION SYSTEM (PARCS): The AN/FPQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier AFB, ND. The PARCS is a single faced, long range phased array radar whose primary mission is to provide tactical warning and assessment of SLBM and ICBM attack against North America. This one-of-a-kind system was originally developed in the early 1970's, and has operated continuously since 1977.			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE	
<b>Description (continued):</b> <p>(1) MOD #S626182, PARCS IMPROVED TRANSMITTER MONITORING SYSTEM: The 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 fluctuated from \$74K to in excess of \$200K, and currently costs \$98K each. FY02/03 funds will provide improvements that will allow site maintainers to log faults for trend analysis and detect failing components that can destroy TWTs. If not funded, high usage rates, that generate high supply costs will continue.</p> <p>(2) MOD #S532492, PARCS DISPLAY UPGRADE: FY01-03 funds this upgrade, which replaces unsupportable and unreliable display subsystem equipment. This equipment is composed of unique, custom built components which became obsolete in the early 1980's. 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 increase. Since some of the consoles exert active control over the system, failure to upgrade increases the risk of catastrophic failure of the radar system.</p> <p>(3) MOD #532496, PARCS MAINTENANCE &amp; DIAGNOSTICS SUBSYSTEM UPGRADE: The M&amp;DSS provides the only fault detection and isolation for the prime mission computer and its associated data processing equipment. Most important, the M&amp;DSS is used to re-initialize the computer in the event of a shutdown. FY03 funds will begin this modification, which will replace the obsolete, 1960s-technology equipment.</p> <p>B. SERVICE LIFE EXTENSION PROGRAM (SLEP): The legacy Prime Mission Equipment at the SLBM PAVE PAWS sites at Beale AFB, CA and Cape Cod AFS, MA are obsolete and are becoming unsustainable. The FY01/02 appropriations fund modified replacement units or re-engineered components for various computer peripherals that are most at risk of early unsupportability. FY 03 funds will continue the reliability and maintainability modifications for the main computer processors and the remaining signal/data processing, conditioning, and presentation sub-systems that are most at risk of becoming unsupportable. Funding also procures Interim Supply Support (ISS) and project management support. This modification is integral to the concurrent Comm-Electronics modification of the three Ballistic Missile Early Warning (BMEWS) radars at Thule AB, Greenland, RAF Fylingdales UK, and Clear AFS, AK. Reference P-1 line 70, Comm-Elect Mods, BMEWS SLEP).</p>			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE			
<b>Description (continued):</b>					
<p>3. 496L SPACETRACK NETWORK: The 496L Spacetrack Network modification is comprised of the AN/FSD-3 (formerly AN/FSQ-114) Ground-based Electro-Optical Deep Space Surveillance System (GEODSS) Sensor System. The SPACETRACK system provides data on near-earth and deep space objects to constantly update the Cheyenne Mountain Complex (CMC) satellite catalog. The system also performs critical early warning and tracking of potential threats to North America, and assessment and characterization of potential atmospheric, ballistic missile and space attacks.</p> <p>A. AN/FSD-3 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM. GEODSS is a segment of the SPACETRACK Network which provides metric track data and deep space object identification (SOI) to the Cheyenne Mountain Complex (CMC). More specifically, the primary mission of GEODSS is to provide the Space Control Center (SCC) with observational (metric) data on deep-space satellites and optical characteristics information as tasked by the Combined Intelligence Center (CIC). 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.</p> <p>(1) MOD #83679D, GEODSS CHARGE-COUPLED DEVICE (CCD) CAMERA: FY01-03 funds will provide for production, testing and fielding of 8 of the required 10 CCD cameras, which will replace Ebsicon tubes that are no longer manufactured or supported by any vendor. The current supply of Ebsicon tube spares will be exhausted during FY02. Funds also provide for sensor controller hardware and associated software modifications, and Modular Precision Angular Control System (MPACS) replacement, critical to the CCD modification. The MPACS is the telescope mount control system that enables the tracking of space objects which have constant velocity or apparent acceleration. Replacement of the MPACS will improve reliability, maintainability and supportability by replacing antiquated 1970's equipment with modern technology.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: SPACE MODS SPACE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. NAVSTAR GLOBAL POSITIONING SYSTEM					\${7,014}		\${7,846}		\${4,596}
A. OPERATIONAL SUPPORT ENVIRONMENT (OSE), MOD #S605133					\$2,302				
B. TRANSMITTER/EXCITER REPLACEMENT, MOD #S5005800101					\$2,762				
C. MONITOR STATION TIMING SUBSYSTEM ENHANCEMENT (MSTSE), MOD # T7215					\$1,950		\$2,453		
D. VERSION V MASTER CONTROL STATION (MCS) UPGRADE, MOD #TBD							\$5,393		\$3,411
E. HIGH POWER AMPLIFIER (HPA) MOD #7199									\$1,185
2. 474N SEA LAUNCHED BALLISTIC MISSILE (SLBM), DETECTION AND WARNING SYSTEM					\${11,290}		\${15,123}		\${3,936}
A. PARCS					\${3,694}		\${3,715}		\${3,399}
(1). IMPROVED TRANSMITTER MONITORING SYSTEM (ITMS) MOD #S626182							\$1,225		\$122
(2). DISPLAY UPGRADE MOD #S532492					\$3,694		\$2,490		\$1,020
[3]. MAINTENANCE & DISPLAY SUBSYSTEM UPGRADE #532496									\$2,257
B. PAVE PAWS					\${16,133}		\${20,132}		\${2,943}
(1) SERVICE LIFE EXTENSION PROGRAM					\$6,062		\$10,848		\$378
(2) INTERIM SUPPLY SUPPORT					\$534		\$50		\$50
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> SPACE MODS SPACE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
(3) PROGRAM MANAGEMENT SUPPORT					\$1,000		\$510		\$109
3. SPACETRACK NETWORK					\${8,537}		\${8,724}		\${2,406}
A. AN/FSD-3 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM					\${8,537}		\${8,724}		\${2,406}
(1) GEODSS CCD CAMERA/MPACS MOD # 83679D					\$8,537		\$8,724		\$2,406
<b>Totals:</b>					\$26,841		\$31,693		\$10,938
<b>Remarks:</b>									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$94,359	\$94,435	\$134,427	\$177,247	\$129,502	\$130,114	\$214,125
<p><b>Description:</b></p> <p>In FY02, Tactical C-E Equipment received \$3 million as part of the Defense Emergency Relief Fund (DERF). Funding was used to purchase deployable communications equipment items for Aerospace Expeditionary Force (AEF) communication units who have or are preparing to deploy. This funding is in support of Operation Enduring Freedom.</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), and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in the Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment that will support United States (US) flying operations worldwide.</p> <p>1. <b>THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM:</b> The TDC program provides telephone/computer networks and message service to deploying Air Force units. TDC will support a wide range of mission areas and users including: ACC, AMC, USAFE, PACAF, AFSOC, and the ANG. For both AMC and AFSOC, TDC provides new combat communications capability not previously available but critical to support Air Expeditionary Force (AEF) operations. In addition, TDC will support joint operations through its link into the joint tactical communications architecture. TDC will play a major role in 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.</p> <p>TDC is composed of three components: the Lightweight Multiband Satellite Terminal (LMST), the Integrated Communications Access Packages (ICAP), and Network Control Center - Deployed (NCC-D). Together, these three systems provide the communications infrastructure</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<b>Description (continued):</b> for deployed bare base environments. TDC connects all levels of users, from base up to the President and Secretary of Defense , using various C4 and intelligence (C4I) applications and the Tactical Internet. TDC funding supports Wing Initial Communication Packages (WICPs), Air Operations Centers (AOC), Air Support Operations Centers (ASOCs), Battlefield Control Center/Radar Control Center (BCC/RCC), as well as expeditionary and roosting units of the AEF. TDC is modular and adaptable--capable of supporting the war effort from deployment on day one to the buildup of a fully operational base. The program utilizes a continuous spiral process to upgrade fielded systems with updated communications capabilities and technologies to take advantage of commercial upgrades to meet evolving user requirements. FY01 is the first year that TDC fielded units will benefit from implementation of the spiral upgrade process to incorporate new technology in the baseline.  a. LIGHTWEIGHT MULTIBAND SATELLITE TERMINALS (LMSTs): LMSTs are a critical link providing the two-way communications connectivity between the deployed base and command authorities at other locations. LMSTs augment existing X-Band tactical satellite terminals and provide a significant increase in capability, leveraging not only the military X-band satellite channels and military Ka-bands when available, but also the bands available on commercial communications satellites. This alleviates many operational problems, since the military X-band channels are nearing capacity. The LMST significantly reduces airlift, requiring just 25 percent of a C-130 load versus a full C-130 load to move the terminal it replaces. The LMST has two functional configurations, hub and spoke, as well as two package configurations, trailer and transit case. Funding includes implementation of a spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY01-03 funds continue procurement of LMSTs. FY03 funds also procure direct mission support. FY02 and prior year funding included direct mission support as part of the equipment line.  b. INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): The ICAP program provides modular and scaleable packages of hubs/routers, switches, multiplexers, on-base communications (lasers and microwave radios), crypto and timing equipment, secure voice conferencing, secure and non-secure telephones. ICAP packages also include other accessories and configuration kits required to establish and maintain the deployed base infrastructure, forming the communications backbone for a deployed base. Users will plug-in their computer, telephones, and faxes into the backbone the ICAP provides. ICAP provides significant advantages over the legacy system 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 Legacy System. Additionally, ICAP packages come in multiple configurations varying in sizing/composition based on application. This allows for greater flexibility to meet different contingency operations. For example, the Wing					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT	
<p><b>Description (continued):</b></p> <p>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 robusting package. The legacy system lacked this flexibility, requiring a large portion (six to seven C-130 loads) to be in-place before the system became operational. Funding includes implementation of a Spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY01-03 funds continue the procurement of ICAP. FY03 funds also procure direct mission support. FY02 and prior year funding included direct mission support as part of the equipment line.</p> <p>c. NETWORK CONTROL CENTER - DEPLOYED (NCC-D): NCC-D, formerly known as Network Management System/Base Information Protection (NMS/BIP), provides the same network management/information protection and network planning capabilities for deployed operations that exist on fixed bases. Specific functions include data management, intrusion detection and firewall capabilities for both the classified and unclassified networks. All equipment is packaged in transit cases for deployed operations. Formerly an integral part of the ICAP suite, this capability has been separated for better management oversight. Funding includes implementation of a spiral upgrade process to incorporate new communications technologies and capabilities into the baseline. FY01-03 funds continue procurement of (NCC-D) capabilities. FY03 funds also procure direct mission support. FY02 and prior year funding included direct mission support as part of the equipment line.</p> <p>d. INITIAL COMMUNICATIONS PACKAGE: In support of Operation Noble Eagle, eight Initial Communications Element (ICE) packages were procured for AFSOC in FY02. The purpose of these packages is to provide an initial communications capability with a smaller footprint than currently provided by the existing LMST, ICAP, and NCC-D equipment. The USC-60 is the satellite terminal portion. To augment that, selected ICAP and NCC-D components have been packaged into a new, smaller footprint configuration for this first-in mission. These provide a very similar functional capability to the existing ICAP and NCC-D equipment -- but on a more limited scale and supporting fewer end users. No FY03 funding requested.</p> <p>2. TACTICAL AIR CONTROL PARTY (TACP) MODERNIZATION: The TACP Modernization Program enhances the ability of TACPs to interface with joint and multinational forces by replacing aging communications and information systems equipment utilized by ACC, USAFE and PACAF TACPs. TACP's deploy with Army maneuver units and provide the command and control link for close air support (CAS), airlift, and reconnaissance. TACP Modernization provides ultra high frequency (UHF) satellite communications (SATCOM), data capabilities, process</p>			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TACTICAL C-E EQUIPMENT			
<p><b>Description (continued):</b></p> <p>automation, and integrated capabilities to improve operational effectiveness and reduce the risk of fratricide. Without modernization, TACPs will not be interoperable with the US Army's digitized battlefield and processing close air support requests will be delayed, jeopardizing support of ground forces.</p> <p>The TACP Modernization Program consists of four components: (1) laser range finders (with computer interface) which provide target location and observation devices to help reduce incidents of fratricide, (2) ruggedized computers with Global Positioning System (GPS) functionality along with information software to provide gateway functionality and to display situational awareness imagery and messages in the battlefield environment, (3) multi-band multi-mode manportable radios (manpacks) to replace the three existing manpacks now in use, and (4) Joint Tactical Radio System (JTRS) compliant vehicular-mounted communications systems. TACP modernization remedies joint/combined interoperability, inaccurate targeting, lack of automation, limited situational awareness, and size/weight concerns. FY01 funds completed the procurement of the laser range finders, continued the computer support and manpack radio procurements and started dismounted computer procurement. FY02 funds continue procurement of the dismounted computers, manpack radios and computer support. FY03 funds will complete manpack radio procurement, and continue dismounted computer procurement.</p>					
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003				
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
1. TDC PROGRAM							{74,664}			{76,373}			{122,377}		
A. LMST	A						18,510			16,453			18,605		
B. ICAP	A						48,993			47,007			90,297		
C. NCC-D	A						7,161			4,413			8,069		
D. ICE/USC-60	A									8,500					
E. DIRECT MISSION SUPPORT													5,406		
2. TACP MODERNIZATION							{19,695}			{18,062}			{12,050}		
A. LASER RANGE FINDERS	A						9,000								
B. COMPUTERS	A						2,995			8,142			7,912		
C. MANPACK RADIOS	A						7,700			9,920			4,138		
<b>TOTALS:</b>							94,359			94,435			134,427		
<b>REMARKS:</b>															
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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. TDC PROGRAM										
A. LMST (1) (2)										
FY01			AFMC/ESC	MIPR/FFP	ARMY/CECOM, HARRIS CORP, MELBOURNE, FL	JAN 01	JAN 02			
FY02			AFMC/ESC	MIPR/FFP	ARMY/CECOM, HARRIS CORP, MELBOURNE, FL	JAN 02	JAN 03			
FY03			AFMC/ESC	MIPR/FFP	ARMY/CECOM, HARRIS CORP, MELBOURNE, FL	JAN 03	JAN 04	Y		
B. ICAP (2)										
FY01			AFMC/ESC	OPT/FFP (3)	MOTOROLA SSTG, SCOTTSDALE, AZ	DEC 00	JUN 01			
FY02			AFMC/ESC	C/FFP	UNKNOWN	APR 02	OCT 02	Y		
FY03			AFMC/ESC	OPT/FFP	UNKNOWN	DEC 02	JUN 03	Y		
C. NCC-D										
FY01			AFMC/SSG	OPT (5)/IDIQ	TRW, SAN ANTONIO, TX	FEB 01	JUL 01			
FY02			AFMC/ESC	C/FFP	UNKNOWN	MAR 02	JUL 02	Y		
FY03			AFMC/ESC	C/FFP	UNKNOWN	FEB 03	JUL 03	Y		
D. ICE/USC-60										
FY02			AFMC/ESC	MIPR/FFP W/OPT	ARMY/CECOM, L3, HAUPPOUGE, NY	DEC 01	DEC 01			
2. TACP MODERNIZATION (4)										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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	
A. LASER RANGE FINDERS										
FY01			AFMC/ESC	SS/FFP	LITTON LASER DIVISION, APOPKA, FL	MAR 01	MAR 02			
B. COMPUTERS (6)										
FY01			AFMC/ESC	DO/FFP	CIT PAD, SSG, GUNTER ANNEX, AL	NOV 00	DEC 00			
FY02			AFMC/ESC	DO/FFP	ARMY TACTICAL COMMAND & CONTROL SYS, FT MONMOUTH, NJ	NOV 01	MAR 02			
FY03			AFMC/ESC	DO/FFP	ARMY TACTICAL COMMAND & CONTROL SYS, FT MONMOUTH, NJ	NOV 02	JAN 03	Y		
C. MANPACK RADIOS										
FY01			AFMC/ESC	C/FFP	HARRIS CORP, ROCHESTER, NY	MAR 01	APR 01			
FY02			AFMC/ESC	OPT/FFP	HARRIS CORP, ROCHESTER, NY	NOV 01	JAN 02			
FY03			AFMC/ESC	OPT/FFP	HARRIS CORP, ROCHESTER, NY	NOV 02	DEC 02	Y		
<b>REMARKS:</b> (1) Option to FY95 C/FFP contract with Harris Corp., Melbourne, FL. (2) LMST and ICAP unit costs vary because system sizing composition depends on application. (3) Option to FY96 ICAP contract with Motorola, Scottsdale, AZ. (4) Existing contractual vehicles were utilized to place orders early in FY00 and 01. Options are available from several vendors. Typical contractors are: Harris, Rochester, NY; Raytheon, Largo, FL; Litton Laser Division, Apopka, FL; GSA Catalog; ANZUS, San Diego, CA. (5) Option to basic contract with TRW, San Antonio, TX awarded Aug 97. (6) Quantity and unit cost vary because of different types/configurations being procured.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR (CSEL)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,628	\$0	\$11,049	\$9,109	\$17,249	\$28,427	\$32,062
<p><b>Description:</b></p> <p>The Combat Survivor Evader Locator (CSEL) joint program, led by the Air Force, will replace existing PRC-90 and PRC-112 survival radios with a new end-to-end system providing enhanced Combat Search-and-Rescue capabilities. This system is composed of [1] a user segment featuring a new multi-function, software re-programmable hand-held radio that incorporates near-real-time Global Positioning System (GPS) geopositioning; [2] a satellite communications segment incorporating four Ultra High Frequency (UHF) Base Stations (UBSs) co-located with Navy command and control facilities to support secure two-way over-the-horizon data messaging; and [3] a ground segment containing a Joint Search and Rescue Center (JSRC) software application allowing command and control interfaces with other government systems.</p> <p>In February 1996, a cost-plus-award-fee Research, Development, Test, &amp; Evaluation (RDT&amp;E) contract was awarded for CSEL Engineering and Manufacturing Development. (Reference the RDT&amp;E Budget Justification Exhibits for Program Element 0305176F.) The first production option was awarded in July 1997, and the first Low Rate Initial Production (LRIP) radios were delivered in the third quarter of FY99. In February 2000 the Joint Requirements Oversight Council approved the updated CSEL Operational Requirements Document, which established an evolutionary two-block system development/fielding approach. LRIP radio production for Block 1, the current configuration, began in the fourth quarter of FY01 after an operational assessment and continues in FY02; full-rate production will begin in FY03. Ongoing Block 2 development will upgrade the JSRC application for Defense Information Infrastructure Common Operating Environment Level 7 interoperability and add Demand-Assigned Multiple Access compatibility to make more efficient use of UHF satellite communications resources. Ultimately, the Air Force, Army, and Navy will procure approximately 52,000 CSEL radios, including almost 17,000 for the Air Force.</p> <p>FY01 CSEL procurement funding purchased a UHF Base Station, production engineering, the first Air Force Block 1 radios, and associated program support equipment both to support the Multi-Service Operational Test and Evaluation in FY02 and to make some CSEL radios available for theater Commander-in-Chief use in ongoing contingency operations. No procurement funds were appropriated in</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR (CSEL)		
<b>Description (continued):</b> FY02. FY03 funding will purchase the final two UHF Base Stations, more Block 1 radios, associated support equipment, and direct mission support. Failure to procure CSEL as expeditiously as possible extends the reliance of aircrews, recovery forces, and isolated personnel on dated survival radio technology.				
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: COMBAT SURVIVOR EVADER LOCATOR (CSEL)								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
CSEL SYSTEM							{7,628}						{11,049}	
CSEL RADIO (1)	B				288		4,192				715	8,400	6,006	
PROGRAM SUPPORT EQUIPMENT (2)							548						1,374	
UHF BASE STATION (UBS)							881				2		2,292	
PRODUCTION ENGINEERING							2,007						450	
DIRECT MISSION SUPPORT													927	
<b>TOTALS:</b>							7,628						11,049	
<b>REMARKS:</b> (1) Unit costs per fiscal year are contingent upon the total radio quantity purchased by all three Military Departments. A reduction in any Military Department's procurement in a given fiscal year increases the unit cost for all radios funded in that year. (2) Program support equipment includes radio set adapters, mission planning software, batteries, antennas, earpieces, and training aids.														
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMBAT SURVIVOR EVADER LOCATOR (CSEL)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
CSEL RADIO (1)										
FY01 (2)	288		AFSPC/SMC	OTH (3)/FFP	BOEING, ANAHEIM, CA	SEP 01	MAR 02			
FY03	715	8,400	AFSPC/SMC	SS/FFP	BOEING, ANAHEIM, CA	APR 03	JAN 04	N	FEB 03	
<b>REMARKS:</b> (1) Unit costs per fiscal year are contingent upon the total radio quantity purchased by all three Military Departments. A reduction in any Military Department's procurement in a given fiscal year increases the unit cost for all radios funded in that year. (2) FY01 procurement includes 35 Air Force radios with original design GPS modules and 253 with updated GPS modules. (3) LRIP 2 production modification added to the original prime engineering and manufacturing development contract with Boeing, Anaheim, CA, awarded February 1996.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$16,477	\$13,829	\$8,801	\$9,030	\$9,129	\$8,973	\$8,687
<p><b>Description:</b></p> <p>The Radio Equipment 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. Scope Command replaces the Legacy system HF radio stations located around the world that are more than 20 years old and increasingly difficult and costly to maintain. Due to a declining support posture, and efforts to collocate/close United States (US) 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 Chiefs of Staff (JCS) tasked the AF to be the executive agent for the DoD HF collocation effort.</p> <p>Items requested in FY03 are identified on the following P-5 and are representative of the items to be procured. Items procured during execution may change based on critical equipment needed to support current AF mission requirements.</p> <p>1. <b>SCOPE COMMAND HIGH FREQUENCY (HF) RADIO STATION REPLACEMENT:</b> The Scope Command program provides for modernization of selected high power HF ground radio equipment which serves as the 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), JCS, Defense Information Systems Agency (DISA), AMC, Air Combat Command (ACC), Air Intelligence Agency (AIA), Air Force Space Command (AFSPC), United States Air Forces Europe (USAFE), and Pacific Air Forces (PACAF).</p> <p>The Scope Command program upgrades 14 plus AF HF Global sites in accordance with DoD rightsizing direction with state-of-the-art, commercial-off-the-shelf (COTS) HF radio equipment. Scope Command is moving to a centralized net control capability with unmanned HF radio facilities (referred to as Lights Out). The increments are:</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT	
<b>Description (continued):</b> <p>Phase A, Initial Scope Command (ISC), procured two HF radio levels for each station to provide an HF Automatic Link Establishment (ALE) capability to meet AMC's command and control requirements and aircraft modification schedules. 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 remaining AF 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, provides for remote control of the Scope Command HF radios/equipment at other stations from a central control site at Andrews AFB, MD. Phase C includes definition, design, proof-of-concept, installation, and operational testing costs of the Centralized Net Control Station (CNCS) at Andrews AFB, MD, and the associated software and equipment necessary to install the Lights Out capability at the other HF Global Stations.</p> <p>Additional program efforts and costs include Scope Command HF-Email and HF antennas. HF-Email capability is required to provide the means to send and receive E-mail messages between aircraft and ground stations via the Scope Command HF Global Network. This capability will allow improved command, control and mission safety through the transmission of pilot information, weather updates and general mission information. HF E-mail includes the engineering, integration, equipment and installation for Scope Command ground stations and aircraft interface. Also included is the selective replacement of older, degraded HF antennas as required to support the Scope Command Worldwide HF Communication Network.</p> <p>FY01 funding procured Scope Command equipment/installation for three Phase B Full Up stations plus an additional Southern Hemisphere Station to improve global coverage, HF E-mail capabilities, Scope Command/Phase C engineering, integration, Type 1 training, support, and HF antennas replacement.</p> <p>FY02 funds provide continuation of network modernization/improvements (including alternate/backup CNCS capability), engineering, integration, network management and security IAW DoD directives and Type 1 training to meet the users requirements. Additionally, FY02 funding procures and installs Scope Command HF antenna replacements.</p> <p>FY03 continues the network modernization/improvement (including alternate/backup CNCS capability) efforts, engineering, integration, network management and security IAW DoD directives. FY03 funding will continue to procure and install Scope Command HF antenna replacements.</p>			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> RADIO EQUIPMENT	
<b>Description (continued):</b>  2. AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI) TACTICAL RADIO SYSTEM: This program is responsible for planning, acquisition, and implementation of AFOSI's Land Mobile Radios (LMR) command-wide. AFOSI's LMR equipment provides secure, two-way communications between AFOSI personnel conducting counterintelligence and criminal investigative operations, protective service operations, and surveillance detection operations in support of AF commanders and deployed DoD units at more than 170 world-wide locations. The goal of the LMR program is to procure standardized equipment to maximize interoperability throughout the command. FY01-03 funding procures portable LMR equipment with narrowband capability.  3. AIR COMBAT COMMAND (ACC) TRUNKED LAND MOBILE RADIO (LMR) SYSTEM: FY01 and FY03 funding purchases the required land mobile radio (LMR) trunking systems that ACC bases use as a primary command and control system. These systems will be severely limited and will negatively impact mission operations unless ACC completely changes out all existing LMR networks. ACC has approved LMR trunking as the best technical solution. LMR trunking systems consist mainly of consoles, channel banks, repeaters, controllers, modem racks and boards, and miscellaneous (installation, software, training). The National Telecommunications and Information Administration (NTIA) has assigned all bases their appropriate frequencies needed for LMR trunking. These frequencies expire at the end of CY2002 if not used. Implementation will be phased with the installation of this infrastructure equipment. ACC must be narrow-band compliant by CY05.			
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT						P-1 NOMENCLATURE: RADIO EQUIPMENT									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003				
		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							{15,512}			{13,420}			{7,213}		
PHASE B FULL UP	A						10,525								
PHASE C LIGHTS OUT	A						328								
ENGR/INTEGRATION/TNG							220			4,354			726		
HF-EMAIL (1)	A						2,071								
NETWORK MODERNIZATION/ IMPROVEMENTS	A									5,342			2,816		
ANTENNAS	A						2,368			3,724			3,671		
2. AFOSI TACTICAL RADIO SYSTEM	A						409			409			409		
3. ACC TRUNKED LMR SYSTEM	A						556						1,179		
<b>TOTALS:</b>							16,477			13,829			8,801		
<b>REMARKS:</b>															
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION 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										
PHASE B FULL UP										
FY 01 (1)			AFMC/OC-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 01	JAN 02			
PHASE C LIGHTS OUT										
FY 01 (1)			AFMC/OC-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JAN 01	JUL 01			
HF-EMAIL										
FY01 (1)			AFMC/OC-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JUN 01	NOV 01			
NETWORK MODERNIZATION/ IMPROVEMENTS										
FY02 (1)			AFMC/OC-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	JUN 02	NOV 02	Y		
FY03 (1)			AFMC/OC-ALC	DO/FFP	ROCKWELL, RICHARDSON TX	FEB 03	SEP 03	Y		
ANTENNAS										
FY01 (1)			AFMC/OC-ALC	MIPR (2)/FFP	NAVY/SYSTEMS INTEGRATION TECHNOLOGY, INC., SAN DIEGO CA	FEB 01	AUG 01			
FY02 (1)			AFMC/OC-ALC	MIPR (2)/FFP	NAVY/SYSTEMS INTEGRATION TECHNOLOGY, INC., SAN DIEGO, CA	FEB 02	AUG 02	Y		
FY03 (1)			AFMC/OC-ALC	MIPR (2)/FFP	NAVY/SYSTEMS INTEGRATION TECHNOLOGY, INC., SAN DIEGO, CA	MAR 03	AUG 03	Y		
2. AFOSI TACTICAL RADIO SYSTEM										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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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	
FY01 (1)			HQ AFOSI	C/FP	FEDSIM, FAIRFAX, VA	OCT 00	OCT 01			
FY02 (1)			HQ AFOSI	OPT/FP	FEDSIM, FAIRFAX, VA	OCT 01	SEP 02			
FY03 (1)			HQ AFOSI	OPT/FP	FEDSIM, FAIRFAX, VA	OCT 02	SEP 03	Y		
3. ACC TRUNKED LMR SYSTEM										
FY01 (1)			HQ ACC	OPT/FFP	MULTIPLE (3)	MAY 01	DEC 01			
FY03 (1)			HQ ACC	OPT/FFP	MULTIPLE (3)	MAR 03	DEC 03	Y		
<b>REMARKS:</b> 1. Quantities and unit costs vary due to site specific requirements. 2. Contract issued through the Navy via a Military Inter-Departmental Purchase Request (MIPR) against a Navy in place contract. 3. Multiple options from existing ACC, AETC, and GSA schedule contracts. Award/delivery dates represent dates of first contract award and delivery.										
		<b>P-1 ITEM NO</b> 64				<b>PAGE NO:</b> 200		Page 2 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,986	\$2,622	\$2,620	\$2,670	\$2,705	\$2,747	\$2,789
<p><b>Description:</b></p> <p>In FY02, AFRTV (AFNEWS) will receive \$0.7 million as part of the Defense Emergency Relief Fund (DERF). Funding will be used to sustain, maintain, and procure Air Force broadcasting equipment in support of operation NOBLE EAGLE.</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. AFNEWS 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. FY01-03 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> <p>Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. AFRTS EQUIPMENT PROCUREMENT: FY01 funds procured on-air radio studio equipment including consoles, radio remote equipment and distribution equipment, digital video acquisition (as part of camera mounted recorder lifecycle replacement), digital news editing systems and support packages, lifecycle replacement for camera tripods, replacement of AM transmission systems at four locations, replacement of an FM transmission system, and major systems upgrade in insertion, monitoring, and distribution to accommodate AFRTS service expansion to US</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)			
<b>Description (continued):</b> service members overseas. These requirements are a must to change out equipment that is out of life cycle and to move from technology that is no longer supported by manufacturers. FY02 funds procure camera tripods requiring lifecycle replacement, startup equipment for manned service in Southwest Asia, equipment for relocation of an FM transmitter site in Kuwait, establishment of a broadcast wide area network/backhaul system, replacement of two television transmitters with support equipment, radio frequency (RF) test equipment for all on-air facilities, audio remote equipment, lifecycle replacement of electronic news gathering (ENG) camera systems, and conversion of television production to digital news editing systems. FY03 funding will provide for lifecycle replacement for ENG camera lighting, camera tripods, AM antenna systems, AM transmission system, uninterruptable power supplies, oscilloscopes, wireless microphone systems, ENG cameras, production audio consoles, compact disk players and initial procurement of digital transmission system test equipment, transportable video satellite backhaul systems, and projects to complete equipment in two television studios.  2. AFNEWS PRODUCTION CENTER: FY01 funds procured peripheral equipment for additional digital editing systems, lifecycle replacement of video wall ENG camera systems and production monitors, additional digital video cameras, and digital audio/video test equipment. FY02/03 funds will procure digital video tape recorders, router audio/video digital frames, audio/video digital distribution amplifiers, analog-to-digital converters, a server for computer based digital editing suites and lifecycle replacement of video tape recorders and tripods. Funding of these items is critical to the support of the Air Force's Internal Information Program and the Army Air Force Hometown News Service.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TV EQUIPMENT (AFRTV)					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. AFRTS EQUIPMENT PROCUREMENT	A				\$1,705		\$2,335		\$2,334
2. AFNEWS PRODUCTION CTR	A				\$281		\$287		\$286
<b>Totals:</b>					\$1,986		\$2,622		\$2,620
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 65				<b>PAGE NO:</b> 203		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,897	\$3,252	\$3,259	\$3,337	\$3,394	\$3,454	\$3,524
<p><b>Description:</b></p> <p>Closed Circuit Television (CCTV) and Audiovisual (AV) systems and their products are used throughout the Air Force to help manage, train and employ war fighters. Video and multimedia based products are developed for war fighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. Combat video 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 video studio systems with newer and more capable equipment and systems for Air Force television production and combat/contingency documentation. Having recognition that imagery quickly conveys very accurate and unbiased information, commanders are requiring greater amounts of video imagery to help meet the challenges of a very active warfighting force. CCTV systems are centrally managed to establish and maintain standardization of systems, as well as to insure full interoperability with all other electronic image acquisition and presentation systems used in the Air Force. FY01-03 CCTV/AV projects are described below.</p> <p>Items requested in FY03 are identified on the attached P40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <ol style="list-style-type: none"> <li>1. <b>IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:</b> FY01-03 funds continue procurement of replacement equipment and upgrades for studio based closed circuit television equipment. Increased implementation of digitally based video systems for image signal capture, processing, editing and transmission enable Air Force TV centers to offer greater capability in image articulation and customer understanding. The equipment includes cameras, editing and duplication, 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.</li> <li>2. <b>COMBAT CAMERA SYSTEMS:</b> FY01-03 funding continues to replace heavily used and worn mobile combat documentation video</li> </ol>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT			
<b>Description (continued):</b> cameras, portable video recorders and portable non-linear digital video editors for mobility tasked combat camera and Visual Information forces world-wide. This program provides for technology 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 the transportation footprint, reduce work load, and enable combat camera personnel to transmit motion and still imagery across satellite and terrestrial systems providing war fighters with greater flexibility in decision-making with real-time operational and combat imagery.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> CCTV/AUDIOVISUAL EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. IMAGE ACQ/TV STUDIO EQUIP	A				\$921		\$1,617		\$1,630
2. COMBAT CAMERA SYSTEMS	A				\$976		\$1,635		\$1,629
<b>Totals:</b>					\$1,897		\$3,252		\$3,259
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 66				<b>PAGE NO:</b> 206		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$80,030	\$76,369	\$202,900	\$138,697	\$107,144	\$105,361	\$105,471
<p><b>Description:</b></p> <p>In FY02, Base Communications Infrastructure received \$3.2M as part of the Defense Emergency Relief Fund (DERF). Funding remedies mission-critical communications shortfalls, procures secure "red" telecommunications switches, and engineers and installs modernization of key communication backbone and computer networks. These funds support Operation ENDURING FREEDOM.</p> <p>The Base Communications Infrastructure program procures and supports communications equipment for base-level infrastructure programs. This equipment replaces maintenance intensive equipment, upgrades existing digital switching systems, provides information system network management, and increases telecommunication transmissions system capacity. Modernization initiatives facilitate rapid dissemination of vital Air Force command and control and combat support information systems. Requirements are established by Major Command (MAJCOM), Air National Guard (ANG), and/or Air Force Reserve Command (AFRC) components, and interface with the Combat Information Transport Systems (CITS) infrastructure contained in P-1 Line 54, Base Information Infrastructure.</p> <p>For FY03, base communications received significant increases to fund this mission area at the level required to meet essential needs for voice, radio, and data services at wing level. The growing demand for infostructure and more robust data transmission at wing level is being met through investment dollars. Security demands are also increasing significantly which requires bases to procure additional encryption devices for base networks and expand the number of Secure Internet connections for critical C2 and mission support base customers.</p> <p>Items requested in FY03 are identified on the attached P-40A and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>1. HEADQUARTERS AIR FORCE COMMUNICATIONS AGENCY (HQ AFCA): This program procures communications and information systems equipment supporting the information technology (IT) mission. FY01-03 funding procures real-time video systems, satellite terminal</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> upgrades, and high-speed data processing equipment which support models and simulations. This program also funds procurement of commercial off-the-shelf land mobile radio (LMR) equipment, which replaces current in-garrison wideband equipment, on one-for-one basis, with narrowband handhelds, base stations, and repeaters to meet the National Telecommunications and Information Administration narrowband mandate. LMRs provide a versatile, secure, and low cost means of sending and receiving information--voice or data, classified or sensitive--to warfighters. Critical in-garrison functions supported by LMR include local command and control, missile security, law enforcement, fire department, medical life support, aircraft generation, disaster response, airfield operation, air base defense, and maintenance. FY03 funding is subdivided in the following two categories: (1) Handheld LMRs. These are personal, portable, low power line-of-sight (LOS) communication devices providing secure, flexible, and versatile means of relaying information between troops in the field and wing command post personnel. (2) Infrastructure. Includes the highpower base stations and repeaters, normally at fixed sites, capable of providing extended coverageLine-of-Sight (LOS) communications for troops in the field and wing command post personnel.  2. AIR NATIONAL GUARD (ANG): FY01- 03 funding supports expansion and modernization of information transmission systems and base information and communications infrastructure at 88 ANG flying wings and over 200 geographically separate units. Procurement includes wide and local area network hardware (servers, routers, hubs and network management systems for information management from central regional locations) and software; fiber optic and copper cabling; antenna structures; and upgrades and replacements for secure/nonsecure telephone switches. Funding ensures ANG systems are technologically viable, compatible and interoperable with the Department of Defense (DoD) and Air Force command, control, communications, computer, information and intelligence architecture.  3. HEADQUARTERS AIR FORCE SPACE COMMAND (HQ AFSPC): FY01-03 funds support Air Force Space Command base communications command-wide modernization and life cycle replacement of information transmission systems, base information infrastructure, Command Engineering and Installation (E&I) program and base communications infrastructure. Procurements include wide and local area network hardware (servers, routers, hubs and network management systems for information management from central locations) and software, upgrades and replacements for secure/nonsecure telephone switches at main bases and remote geographically separate units, and life cycle replacement of base communications infrastructure. Funds will supplement funding provided by the Air Force CITS program by providing critical base-level network connectivity to facilities not funded under the CITS program.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> FY01 funding provided for the Peterson Air Force Base (AFB), CO switch upgrade, Command IT Summit/server consolidation initiatives, high speed internet access on Patrick AFB, FL and Secret Internet Protocol Router Network (SIPRNET).  FY02 funds support LMR implementation for Buckley Air National Guard Base (ANGB), CO stand up. Funds also continue to support the directed program of "Server Consolidation" and IT server consolidation in the command through facility preparation of generator and uninterrupted power source (UPS) as well as development of a mirrored facility, providing an alternative communication path. Funds also procure the communications infrastructure in support of the Transportation Control System at FE Warren Air Force Base (AFB), WY, and the North Vandenburg AFB, CA fiber project. Additionally, funds will be utilized toward wing telephone switch upgrades at Patrick AFB, FL and switch battery replacement at Thule Air Force Station (AFS), Greenland.  FY03 funding will provide for switch upgrades, replacement of one-third of Local Area Networks (LANS) command-wide, infrastructure upgrades and extensions, "last 400 feet", continue server consolidation, IT Summit initiatives throughout the Command, and support MAJCOM Military Communications (MILCOM) program.  4. HQ US AIR FORCE EUROPE (HQ USAFE): FY01-03 funding supports engineering, procurement, and installation of infrastructure expansion and modernization by purchasing network equipment, network servers, fiber, metallic wiring, fiber optic transceivers, network hubs, and voice and data switching equipment not covered by the CITS program. FY01-03 will also continue to fund communications upgrades in direct support of the IT Summit Initiative to consolidate servers on both the Unclassified but Sensitive Internet Protocol Router Network (NIPRNET) and Secret Internet Protocol Router Network (SIPRNET). Included in these requirements are the needs to re-home and consolidate multiple geographically separated units behind single consolidated servers at main operating bases. FY01-03 funding continues to procure telephone switches to replace Siemans switches throughout United States Air Forces in Europe (USAFE), which will not be maintainable after FY04. FY01-03 funding will also continue to support the transfer of the Rhein-Main Air Base (AB), Germany airlift mission to Ramstein and Spangdahlem ABs in Germany. This is a six year effort (FY00-05). The Rhein-Main relocation allows USAFE to continue as an en-route hub to support South West Asia (SWA) and other contingency efforts, and the Air Force to fully support airlift operations throughout Europe. Other important issues facing USAFE include the much needed modernization of technical control centers which will begin using FY03 funding in an effort to replace old analog circuit patch and test facilities with digital facilities that match the communications backbones. Finally, the					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> expansion of SIPRNET capability within USAFE remains a top priority throughout this entire period, requiring the continual funding of classified networking infrastructure at all locations.					
5. HEADQUARTERS AIR EDUCATION AND TRAINING COMMAND (HQ AETC): FY01-03 funding supports the AETC education mission by procuring information infrastructure, transmission systems, communications backbone facilities and intrabuilding network wiring. Robust telecommunications facilitate the rapid exchange of data to help instructors provide enhanced curriculums, realistic simulation exercises, remote access to research libraries, and web-enabled distance learning. FY02/03 funds will provide for communications infrastructure modernization systems required to meet advanced technical training requirements for 175,000 trainees per year in twenty different career fields.					
6. HQ AIR FORCE MATERIEL COMMAND (HQ AFMC): FY01/02 funding supports engineering, procurement and installation/upgrades and management/protection of network infrastructure which provides a single high speed connection to the Defense Information Systems Agency (DISA) classified and unclassified networks. These funds will supplement funding provided by the Air Force Systems Networking (AFSN) and Air Force CITS programs by providing critical base-level network connectivity to facilities not funded under the AFSN and CITS programs. FY02 funding addresses server consolidation at AFMC bases. If server consolidation cannot be completed in FY02, the remaining consolidation will be funded in FY03 to the extent possible within available funds, along with the critical base level network connectivity, cabling and communications requirements not funded under the AFSN and CITS programs.					
7. HQ PACIFIC AIR FORCE (HQ PACAF): This program procures communications and information systems equipment supporting the Information Technology (IT) mission. FY01-03 funding enables procurement of mission critical Command Post Consoles at six PACAF wings as well as Land Mobile Radios (LMRs) to meet Korean and National Telecommunications & Information Administration (NTIA) mandates. Funding also supports engineering, procurement, and installation of infrastructure expansion and modernization by purchasing network equipment, network servers, fiber, metallic wiring, fiber optic transceivers, network hubs, and voice and data switching equipment not covered by the CITS program. Expansion of the PACAF-wide secret-level network to improve the warfighters' network access and upgrade switches remains a top priority.					
8. HQ AIR COMBAT COMMAND (HQ ACC): FY01-03 funding procures and maintains standardized communications and information					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE COMMUNICATIONS INFRASTRUCTURE			
<b>Description (continued):</b> systems throughout ACC, providing MAJCOMs, Numbered AFs, and Combat AFs means to defend, control, manage, modify, and monitor the Air Force communication networks.  FY01-03 funding also supports Air Force base-level infrastructure upgrades to provide all core and non-core facilities communication network access within the FYDP. Funding also provides command and control connectivity to all key base facilities, organizations, and war fighting forces. Funding will support the Network Operational Security Centers (NOSC) which manage, maintain, and improve reliability, security, and efficiency of command information transport systems.  Infrastructure upgrades include transition to high speed/high data rate connectivity, establishment of digital switching capabilities, etc. Funding also allows ACC to move closer to providing efficient high-speed information management transport systems vital to the daily operation of headquarters staff and imperative to combat forces operations. Procurements include engineering and installation of infrastructure expansion and modernization of network equipment, network servers, fiber, metallic wiring, fiber optic transceivers, network hubs, and voice and data switching equipment not covered by the CITS program.  9. HQ AIR MOBILITY COMMAND (HQ AMC): FY01-03 funding supports engineering, procurement, and installation of infrastructure expansion and modernization by purchasing fiber optic and copper cabling, antenna structures and new voice and data switching equipment not covered by the CITS program.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				P-1 NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
BASE COMMUNICATIONS INFRASTRUCTURE										
1. HQ AFCA (1) (3)	A				\$993		\$195		\$109,051	
2. ANG (1) (3)	A				\$23,354		\$24,305		\$24,713	
3. HQ AFSPC (1) (2) (3)	A				\$5,213		\$7,042		\$6,026	
4. HQ USAFE (1) (2) (3)	A				\$13,112		\$18,505		\$18,498	
5. HQ AETC (1) (2) (3)	A				\$19,093		\$4,306		\$3,199	
6. HQ AFMC (1) (2) (3)	A				\$6,843		\$3,967		\$16,766	
7. HQ PACAF (1) (2)	A				\$1,595		\$6,056		\$10,490	
8. HQ ACC (1) (2)	A				\$9,183		\$4,508		\$8,163	
9. HQ AMC (1) (2)	A				\$644		\$7,485		\$5,994	
<b>Totals:</b>					\$80,030		\$76,369		\$202,900	
<b>Remarks:</b>										
<p>1 Quantities and unit costs vary due to different site configurations.</p> <p>2. Options were used to procure multiple pieces of equipment from the GSA Schedule, AF Minicomputer multi-user system, AFCAC 308, Unified local area network architecture (Ulane) II, and Desktop IV contracts.</p> <p>3. Options to various competitive, fixed price/firm fixed price contracts are available through the following vendors for execution of Base Communications Infrastructure funding: AT&amp;T Federal Communications Systems, Silver Spring, MD; AT&amp;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.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$8,471	\$6,065	\$9,278	\$6,150	\$6,171	\$10,490	\$11,252
<p><b>Description:</b></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. The major procurement activities in this line are the Allowance Sources (AS) Equipment and replacement Power Conditioning and Continuation Interface Equipment (PCCIE). Miscellaneous AS authorizations provide new and/or replacement equipment items to organizational units in the field. PCCIE systems are used to back up and protect power sensitive/dependent computer systems. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY03 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support Air Force mission critical requirements.</p> <p>1. <b>ALLOWANCE SOURCES (AS) AUTHORIZATIONS:</b> 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 AS authorizations which match 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 range equipment, equipment for communications evaluation/maintenance teams, and ground radar special mission and support equipment.</p> <p>2. <b>POWER CONDITIONING AND CONTINUATION INTERFACING EQUIPMENT (PCCIE):</b> PCCIE consists of commercial power quality equipment. This equipment is fielded as a complete system and, once installed, provides 100 percent uninterrupted power to critical AF installations. This program procures replacement PCCIE for all Air Force, Air National Guard, and Air Force Reserve units. Examples include the Air Defense Center at Cheyenne Mountain Air Station (AS) CO, perimeter acquisition radar sites at Cavalier AS ND, and Beale AFB CA, 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION			
<b>Description (continued):</b> experience power outages, brownouts, power surges and sags, all of which will cause loss of mission capability.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>				<b>DATE: FEBRUARY 2002</b>	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT			<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5 MILLION		
<b>PROCUREMENT ITEMS</b>	NSN			FY2003	
		QTY.	COST	QTY.	COST
1. ALLOWANCE SOURCES AUTHORIZATIONS					\$3,920
2. POWER CONDITIONING AND CONTINUATION INTERFACING EQUIPMENT					\$5,358
<b>TOTALS:</b>					\$9,278
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT				<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$46,427	\$49,056	\$68,894	\$53,740	\$35,409	\$36,698	\$36,113
<p><b>Description:</b></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 communications-electronic modification efforts for ground based systems. Modification installation funding is budgeted in the year the installation will be physically done. Modifications requested in FY03 are identified on the attached P-40A and are representative of configuration changes/deficiency corrections to be accomplished. Modifications procured during execution may change based on critical changes/corrections needed to support current Air Force mission requirements.</p> <p>1. <b>CONTROL AND REPORTING CENTER:</b> The Control and Reporting Center (CRC), formerly known as the Ground Theater Air Control System (GTACS) and the Modular Control System (MCS) program, acquires and sustains the state-of-the-art equipment and capabilities essential to the survival and combat effectiveness of tactical air command and control (C2). The GTACS CRC deploys rapid reaction capability into a theater, then to forward locations within that theater, to establish autonomous and self-sufficient bases of operations. CRC elements accomplish five core competencies: theater air defense, datalink management, surveillance, identification and air battle execution. The CRC program provides for connectivity and interoperability among elements of the Theater Air Control System (TACS) within a designated Area of Interest (AOI) to include United States Air Force, Navy, Marine Corps, Army, and allied/coalition assets. It 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; and all interdiction, close air support, counter air, airlift, air refueling, special operations, electronic protection, surveillance, reconnaissance, and search and rescue missions. The CRC relies on the AN/TPS-75 radar as its primary sensor. The AN/TPS-75 is a mobile, three dimensional (range, azimuth, altitude) surveillance, acquisition, and tracking radar which enables aerospace control in a theater of air operations designated AOI. The AN/TYQ-23 Modular Control Element (MCE), the keystone of the CRC, is an automated computer-based information system operating in a proprietary environment that provides a variety of automated information functions such as aircraft surveillance, flight follow, control, and communication functions, and supports the</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> roles of aerospace control, force application, force enhancement, and force support. This PE supports both active duty and National Guard requirements.  A. MOD #M00016, AN/TPS-75 Radar Shelter Replacement: No FY03 funding requested.  B. MOD #M00020, Antenna Bearing Redesign: No FY03 funding provided.  C. MOD # Miscellaneous Low Cost Mods: FY03 funding provides for the planned correction of deficiencies, functional obsolescence, high failure anomalies and associated parts obsolescence due to diminishing manufacturing sources (DMS) within the CRC.  2. BALLISTIC MISSILE EARLY WARNING SYSTEM: The Ballistic Missile Early Warning System (BMEWS) primary mission is to provide the US Commander in Chief, Space Command at Cheyenne Mountain Complex with timely, accurate and unambiguous tactical warning/attack assessment data on intercontinental ballistic missiles penetrating the coverage area. BMEWS has the additional mission of providing space vehicle surveillance, tracking, and identification to the space control centers. BMEWS consists of three operational sites: Site I at Thule AB, Greenland; Site II at Clear AFS, AK; and Site III at RAF Fylingdales, UK.  BMEWS Service Life Extension Program (SLEP): The legacy Mission Critical Computer Resources (MCCR) at the BMEWS sites at Thule AB, Greenland; Clear AFS, AK; and RAF Fylingdales, UK are obsolete and are becoming unsustainable. FY01/02 appropriations have funded modified replacement units or re-engineered components for various computer peripherals that are most at risk of early unsupportability. FY03 funds provide reliability and maintainability modifications for the signal/data processing, conditioning, and presentation sub-systems that are most at risk of becoming unsupportable. FY01-03 funding also procures interim supply support (ISS) and program management activities (PMA). This modification is integral to the concurrent Space Mods modification of the two Sea Launched Ballistic Missile (SLBM) PAVE PAWS early warning radars at Cape Cod, MA and Beale AFB, CA reference P-1 line # 61 Space Mods –Space.  3. 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					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS	
<b>Description (continued):</b> Integrated Tactical Warning/Attack Assessment (ITW/AA) information to the President and Secretary of Defense. 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# S529382, Comm Infrastructure Upgrade (formerly titled Message Processing Distribution System/Replacement): No FY03 funding requested.  B. MOD# S604628, Visual Display System (VDS) Monitor Replacement (Granite Sentry): No FY03 funding requested.  C. MOD# S7201802203, SPADOC Crimson Work Station Replacement (formerly called Space Work Station Migration): No FY03 funding requested.  D. MOD# 105-0370-98-308, SPADOC Interface Adapter Replacement Communications Interface: No FY03 funding requested.  E. MOD# N/A, Enterprise Database Infrastructure: No FY03 funding requested.  F. MOD# Miscellaneous Low Cost MODs: FY03 funds upgrade the communications backbone in the Test and Development Facility to include the C2 Automated System Local Area Network (CASLAN). This upgrade supports technology associated with the Integrated Space Command and Control (ISC2) efforts detailed in P-1 line #41, Cheyenne Mountain Complex.  4. 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 en route and terminal navigation control and separation, approach, departure and landing guidance. ATCALs also provides equipment required to ensure interoperability with systems operated by the North Atlantic Treaty Organization, the U.S. National Airspace System and the International Civil Aviation Organization. The following modifications are in support of the ATCALs mission:			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS	
<b>Description (continued):</b>  A. AN/GRN-30 Instrument Landing System (ILS) Antenna/Distribution Unit: The GRN-30 ILS antennas, antenna distribution unit, and monitor combining unit are becoming logistically unsupportable. The antenna distribution units have been rebuilt numerous times and provide an unstable and erratic output. Many of the distribution units in the field are out of technical order specification but remain in service because replacements are not available or rebuilt ones are more out of tolerance than the ones in the system. The integral detectors in the monitor combining unit have been the single high failure part of the ILS system for years. FY01-03 funds procure this modification, which increases ILS operational availability, reducing risk that aircraft will be required to divert to other bases or attempt landings at night and/or in hazardous weather conditions without landing assistance, and ensures expeditious recovery of combat/training sorties.  B. AN/TRN-41 TECHNICAL UPGRADE: Existing equipment design and construction is of 1970s technology, and contains obsolete components that can no longer be procured. This equipment is projected to be the only deployable TACAN in the Air Force inventory; this modification will extend the service life of the system. In addition, existing tripods will not support long term deployments and must be replaced.  C. AN/TPN-19, Landing Control Central (LCC) RESHELTER: Two systems have been re-sheltered, two are in progress. This re-sheltering is necessary due to compromise of existing shelter integrity and environmental control. A common ISO shelter is used and all hardware is re-sheltered.  D. MISCELLANEOUS LOW COST MODIFICATIONS: FY01-03 funding procures/installs a variety of operations-related modifications, which include, but are not limited to, the following: (1) Improve sustainability of line replaceable units (LRU) and provide replacement of unsupportable power supplies on the AN/TPN-19. (2) Modification of the mobilizer on the AN/TPN-19 to meet the tow requirements of 17,000 pounds minimum to 20,000 pounds maximum (3) Flight Data Input/Output modification necessary for USAF locations to connect to the FAA Air Route Terminal Control Centers. The Federal Aviation Administration is currently upgrading the displays, printers, and keyboards. (4) Replacement of the current Automatic Terminal Information Service (ATIS) due to parts obsolescence. Parts for the ATIS are no longer available for procurement, and the cost to reverse engineer would exceed the unit acquisition cost tenfold. (5) Procure a phase control unit, for the AN/GPN-12/20, which can be attached directly onto the drive motor to adjust the input phase and the rotation speed of the antenna. (6) The			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> new Tilt Adjust Screw assembly for the AN/GPN-12/20 will not have any spot welds thereby eliminating the possibility of any inclusions within the screw. (7) Addition of monitoring capabilities to AN/TRN-45 Mobile Microwave Landing System Equipment. (8) AN/GPN-22 Shelter Grounding which brings the grounding configuration into compliance with National Electric Code.  5. 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 (AF), the Army, Special Operations Forces (SOF), Unified Commands, and other government agencies. Fixed and transportable equipment provides warfighters at in-garrison, contingency, and deployed locations with accurate, timely terrestrial and space weather observations and forecasts.  A. GROUND WEATHER: The ground weather mission provides timely, mission-critical support by observing, analyzing, and forecasting terrestrial weather phenomena impacting the warfighter's ability to operate on the ground and in the air. Worldwide weather products are generated and distributed to AF and Army forces and other customers. The following modifications are in support of this mission:  (1) MOD# 94-003B, NEXRAD Open Radar Data Acquisition (ORDA): FY03 funding will begin replacement of proprietary hardware and software in the NEXRAD radar transmitter and migrate them to open systems standards. Replacement will decrease recurring maintenance costs and eliminate components failing at higher than expected rates.  (2) MOD# 94-004A, NEXRAD Radar Product Generator (RPG) Migration: No FY03 funding required.  (3) MOD# 94-004B, NEXRAD Principle User Processor (PUP) Group Replacement: The PUP workstation displays Doppler weather data for forecaster analysis. FY01-03 funding will complete migration of PUP software to open system standards and re-hosts it to commercial off-the-shelf 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 Operational Weather Squadrons (OWSs), and provide Combat Weather Teams (CWTs) [formerly named Weather Flight/Detachments] software which will allow remote log-in to the OWS server to meet weather radar product needs.					
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<b>Description (continued):</b> <p>(4) MOD# 98-001, Air Force Weather Agency (AFWA) Dissemination Subsystem: FY01-03 funding modifies AFWA dissemination subsystem hardware, software, and communications infrastructure, enabling rapid receipt, staging, and transmission of graphics and text-based weather products and data to the warfighter. These modifications will increase the ability of AF Weather Strategic Center, OWSs, and deployed units to provide timely battlespace information to the warfighter.</p> <p>(5) MOD# 98-002, Product Tailoring/Warfighter Applications: FY03 funding will begin upgrade of hardware, software, and communications infrastructure at OWSs and CWTs to ingest, process, analyze, display, and disseminate target-scale meteorological data supporting warfighter operations.</p> <p>(6) MOD# 98-003, Weather Forecasting: FY02/03 funding upgrades computer hardware and supporting software that provides fine-scale weather and cloud model forecasts at the AF Weather Strategic Center. The current infrastructure cannot support the number of theaters/areas of interest necessary for AF and Army operations including SOF support. Modification will allow the current infrastructure to meet the AF spatial and temporal weather and cloud model forecast resolution requirements, provide capacity to handle extremely large data files, and improve capability for classified fine-scale modeling.</p> <p>(7) MOD# 00-002, Tactical Weather Radar (TWR): FY03 funding begins modification of Doppler weather radars at fixed and semi-fixed locations. Modifications will upgrade display/control computers to run improved operating systems, enhance remote controllability, generate enhanced radar products, and distribute products in formats compatible with warfighter C2 systems.</p> <p>(8) MOD# 00-003, Observing System 21st Century (OS-21): FY03 funding begins modification of the AN/UMQ-12 Upper Air Sensor to comply with DoD policy requiring compatibility with the Global Positioning Satellite capability, commonly referred to as Precise Positioning System.</p> <p>(9) MOD# 00-004, Air Force Combat Climatology Center - Replacement Upgrade: FY02/03 funding upgrades hardware, software, and communications infrastructure within the AF Combat Climatology Center to support ingest, archiving, and retrieval of fine-scale cloud model analysis and forecast data and weather observational data. The upgrade includes network attached storage devices including disk drives, and</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
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<b>Description (continued):</b> central processing units for additional data ingest, storage, and retrieval capabilities.					
<p>(10) MOD# 00-005, Direct Readout Terminal (DRT) Modification: FY02/03 funding begins modifications required to permit tactical ground terminals to receive information from the next generation of meteorological polar and geo-stationary satellites in direct support of the warfighter. Additionally, these modifications will allow integration of meteorological satellite data into warfighter C4I systems and improve reliability, availability, and maintainability.</p>					
<p>B. SPACE WEATHER: The Space Environmental Support System (SESS) mission is to provide timely weather support through observation, analysis and forecasting of solar phenomena and the state of the magnetosphere and ionosphere inhibiting or enhancing DOD's ability to operate in the aerospace environment. The Air Force Weather Agency (AFWA) collects, processes, and analyzes data on solar activity. Alerts, warnings, and forecasts are then produced and distributed to users worldwide. Those products allow warfighters to mitigate the impact of space weather on activities such as high frequency radio communications, the accuracy of global positioning system navigation, satellite anomaly resolution, and space operations.</p>					
<p>(1) MOD# 93-003, Ionospheric Measuring System (IMS) Communications Modification: No FY03 funding requested.</p>					
<p>(2) MOD# 93-004, Ionospheric Measuring System (IMS) Scintillation Modification: No FY03 funding requested.</p>					
<p>(3) MOD# 93-005, Radio Solar Telescope Network (RSTN) Modification for Solar Radio Burst Locator (SRBL): FY01/02 procures this modification, which upgrades existing solar optical and radio observing systems to current technology. FY03 funding will install the first unit modification, improving detection and location of solar flares. Enhanced data about solar flare activity will allow warfighters to mitigate radiation effects on operations involving high altitude aircraft, manned spacecraft, and satellites.</p>					
<p>(4) MOD# 96-031, Improved Solar Observing Optical Network (ISOON): FY01-03 funding continues this modification by retrofitting the 1960s technology optical telescopes with more capable and reliable solar optical telescopes to keep the system operationally effective. The</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT		<b>P-1 NOMENCLATURE:</b> COMM ELECT MODS			
<b>Description (continued):</b> optical telescopes analyze and report solar flare activity.  (5) MOD# N/A, Miscellaneous Low Cost Mods: No FY03 funding requested.  6. JOINT SURVEILLANCE SYSTEM (JSS): The JSS is a combined USAF/Federal Aviation Administration (FAA) network providing air surveillance data through a distributed network of radars around the perimeter of the continental US, Alaska, Hawaii, and Puerto Rico. The surveillance data also directly supports CINCNORAD's Atmospheric Tactical Warning and Attack Assessment (ATW/AA) mission as well as air traffic control missions of the FAA and other multi-national air traffic control agencies. FY02/03 funds will replace FPS-117 Long Range Radar interrogator set beacons and environmental control units throughout the network. These components have become logistically unsupportable in their current configurations.  7. NORTH WARNING SYSTEM (NWS): The NWS is a combined US/Canadian effort providing surveillance and ITW/AA coverage of northern approaches to the US and Canada as part of the Atmospheric Early Warning System. The radar interrogator set beacons, the Environmental control units (ECU) are at the end of their useful life, and suffer from reliability and supportability problems. The beacon is no longer in production and replacement parts are virtually exhausted. The ECU provides heating and cooling to radar components; however, the units are leaking refrigerant into the atmosphere. Loss of either the beacon or ECU will cause the radar to shut down and make it impossible for NORAD to accomplish its air defense mission. FY02/03 funds begin this reliability/sustainability modification by replacing the radar interrogator set beacons and ECUs to prevent any gaps in the North American Defense System.  8. SHARED EARLY WARNING SYSTEM (SEWS): FY02 funds procure upgrades to SEWS-specific equipment at theater CINCs, partner nations, and the Centralized Distribution Facility (CDF) at Peterson AFB, Colorado Springs, CO. FY03 funds will procure equipment upgrades at SEWS Inject Sites in the Pacific Command (PACOM) and European Command (EUCOM) theaters of operation. FY03 funds will also continue equipment upgrades for the CDF, where data is initially received, filtered, and then transmitted to SEWS customers.					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT					P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. CONTROL & REPORTING CENTER (CRC)					\${786}		\${787}		\${592}	
A. MOD# M00016, RADAR SHELTER REPLACEMENT					\$400					
B. MOD# M00020, ANTENNA BEARING REDESIGN					\$386					
C. MISCELLANEOUS LOW COST MODS							\$787		\$592	
2. BALLISTIC MISSILE EARLY WARNING SYSTEM (BMEWS)					\${13,599}		\${16,294}		\${19,539}	
BMEWS SLEP					\${13,599}		\${16,294}		\${19,539}	
HARDWARE/SOFTWARE					\$11,727		\$13,834		\$18,109	
INTERIM SUPPLY SUPPORT					\$155		\$660		\$350	
PROGRAM MANAGEMENT SUPPORT					\$1,717		\$1,800		\$1,080	
3. CHEYENNE MOUNTAIN COMPLEX					\${16,226}					
A. MOD# S529382, COMM INFRASTRUCTURE UPGRADE					\$7,225					
B. MOD# S604628, VDS MONITOR REPLACEMENT (GRANITE SENTRY)					\$1,055					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATION EQUIPMENT					P-1 NOMENCLATURE: COMM ELECT MODS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
C. MOD# S7201802203, SPADOC CRIMSON WORKSTATION REPLACEMENT (SPACE WORK STATION MIGRATION)					\$3,719					
D. MOD# 105-0370-98-308, SPADOC COMMUNICATIONS INTERFACE					\$3,282					
E. MOD# N/A, ENTERPRISE DATABASE INFRASTRUCTURE					\$945					
F. MISC, MISCELLANEOUS LOW COST MODS									\$464	
4. AIR TRAFFIC CONTROL LANDING SYSTEM ( ATCAL5)					\${9,189}		\${10,135}		\${10,624}	
A. MOD# N/A, AN/GRN-30 INSTRUMENT LANDING SYSTEM ANTENNA/DU					\$6,260		\$5,326		\$3,000	
B. AN/TRN-41 TECHNICAL UPGRADE									\$4,500	
C. AN/TPN-19 RESHELTER					\$500		\$1,941		\$2,324	
D. MISCELLANEOUS LOW COST MODS					\$2,429		\$2,868		\$800	
5. WEATHER OBSERVATION & FORECAST SYSTEM					\${6,627}		\${9,291}		\${19,926}	
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. GROUND WEATHER					\${3,142}		\${4,404}		\${7,449}
(1) MOD# 94-003B, NEXRAD OPEN RADAR DATA ACQUISITION (ORDA)									\$2,192
(2) MOD# 94-004A, NEXRAD RADAR PRODUCT GENERATOR (RPG) MIGRATION					\$583		\$1,370		
(3) MOD# 94-004B, NEXRAD PRINCIPAL USER PROCESSOR (PUP) GROUP REPLACEMENT					\$1,540		\$730		\$2,584
(4) MOD# 98-001, AIR FORCE WEATHER AGENCY (AFWA) DISSEMINATION SUBSYSTEM					\$1,019		\$2,304		\$2,673
(5) MOD# 98-002, PRODUCT TAILORING/WARFIGHTER APPLICATIONS									\$3,140
(6) MOD# 98-003, WEATHER FORECASTING							\$2,997		\$2,800
(7) MOD# 00-002, TACTICAL WEATHER RADAR (TWR)									\$604
(8) MOD# 00-003, OBSERVING SYSTEM 21ST CENTURY (OS-21)									\$1,480
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
(9) MOD# 00-004, AIR FORCE COMBAT CLIMATOLOGY CENTER - REPLACEMENT UPGRADE							\$350		\$595
(10) MOD# 00-005, DIRECT READOUT TERMINAL MODIFICATION							\$900		\$1,300
B. SPACE WEATHER					\${3,485}		\${640}		\${2,558}
(1) MOD# 93-003, IONOSPHERIC MEASURING SYSTEM (IMS) COMMUNICATIONS MODIFICATION					\$162		\$39		
(2) MOD# 93-004, IONOSPHERIC MEASURING SYSTEM (IMS) SCINTILLATION MODIFICATION					\$956		\$61		
(3) MOD# 93-005, RADIO SOLAR TELESCOPE NETWORK (RSTN) MOD FOR SOLAR RADIO BURST LOCATOR (SRBL)					\$1,807		\$40		\$181
(4) MOD# 96-031, IMPROVED SOLAR OBSERVING OPTICAL NETWORK (ISOON)					\$538		\$500		\$2,377
(5) MOD# N/A, MISCELLANEOUS LOW COST MODS					\$22				
6. JOINT SURVEILLANCE SYSTEM							\$8,942		\$8,443
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
7. NORTH WARNING SYSTEM							\$3,408		\$7,617
8. SHARED EARLY WARNING ACQUISITION							\$199		\$1,689
<b>Totals:</b>					\$46,427		\$49,056		\$68,894
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 70				<b>PAGE NO:</b> 228		Page 5 of 5	

# UNCLASSIFIED

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INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A)														DATE: FEBRUARY 2002									
<b>Modification Title and No:</b> Ballistic Missile Early Warning System (BMEWS) - SLEP							<b>Models of Systems Affected:</b> Ballistic Missile Early Warning Systems: Clear AS, AK, Thule AB, Greenland, and RAF Fylingdales, UK.																
<b>Description/Justification:</b> The legacy Mission Critical Computer Resources (MCCR) at the BMEWS sites at Thule AB, Greenland; Clear AFS, AK; and RAF Fylingdales, UK are obsolete and are becoming unsustainable. The FY 01 & 02 Appropriations have funded modified replacement units or re-engineered components for various computer peripherals that are most at risk of early unsupportability. FY 03-04 funds provide reliability and maintainability modifications for the main computer processors and the remaining peripherals. FY 03 funds also procure Interim Supply Support (ISS) and project office support (PMA). This modification is integral to the concurrent Space Mods modification of the two Sea Launched Ballistic Missile (SLBM) PAVE PAWS early warning radars at Cape Cod, MA and Beale AFB, CA reference P-1 line # 61 Space Mods -Space.																							
<b>Development Status/Major Development Milestones:</b> Phase I awarded Aug01; 1st article tests at SPA: RCL, NPU and D&TD Apr-May02. DMTS & RCL onsite Dec02. SSMTS plant test Jun02. Fylingdales installs Sep-Dec02; Thule installs Sep02-Feb03; Clear production & install after environmental impact decision. Processor kit production commences Jul 02 with installation in FY03																							
Financial Plan \$ (in Millions)		PY		FY2000		FY2001		FY2002		FY2003		FY2004		TOTAL									
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost									
RDT&E																							
Ref. R-1 PE No:																							
Procurement:																							
Equipment Kits																							
Equipment Kits Non-recurring																							
Engineering Change Orders																							
Data																							
Training Equipment																							
Support Equipment																							
Software																							
Interim Contractor Support																							
Other																							
Total Procurement Costs:																							
Hardware Installation:																							
(PY) Eqpt ( Kits)																							
(FY00) Eqpt ( Kits)																							
(FY01) Eqpt (9 Kits)																							
(FY02) Eqpt (11 Kits)																							
(FY03) Eqpt (8 Kits)																							
(FY04) Eqpt ( Kits)																							
Total Installation Costs:																							
Total Modification Costs:																							
<b>Method of Installation:</b> CONTRACTOR, FIELD INSTALL				<b>Administrative Lead-time (After 1 Oct):</b> 2 Month(s)				<b>Production Lead-time:</b> 9 Month(s)															
<b>Contract Date:</b>		PY	FY2000		FY2001		AUG 01		FY2002		DEC 01		FY2003		DEC 02		FY2004		DEC 03				
<b>Delivery Date:</b>		PY	FY2000		FY2001				FY2002		AUG 02		FY2003		AUG 03		FY2004		AUG 04				
<b>Installations:</b>		PY	FY2000				FY2001				FY2002				FY2003				FY2004				Total
			1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
<b>Input</b>											5	6	6	3	1	0	4	0	1	1	1	1	28
<b>Output</b>											4	9	3	4	1	1	3	1	1	1	1	1	28
<b>P-1 ITEM NO:</b>								<b>PAGE NO:</b>								Page 1 of 1							
70								229															

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**INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A)** **DATE: FEBRUARY 2002**

**Modification Title and No:** Joint Surveillance System Radar Interrogator Set Upgrade, TCT31P6-2FPS117-528, Data Code 31183 **Models of Systems Affected:** FPS-117 version 1,4,5

**Description/Justification:** An Air Force/FAA joint project. Funds replace radar interrogator sets (beacons), environmental control units (ECU) and the Fire Suppression System. The latter two assemblies are listed in the Non-recurring Equipment line. Their installation cost is included in the interrogator set installation cost. These components for the FPS-117 Long Range Radars have become logistically unsupportable. RDT&E is being funded by the FAA per a previous agreement. The beacons have a higher possibility of failure than do the ECUs, and will be replaced first.

**Development Status/Major Development Milestones:** The FAA funded developmental costs; the Air Force will fund production. There are no required acquisition milestones for this mature system.

Financial Plan \$ (in Millions)	PY		FY2000		FY2001		FY2002		FY2003		FY2004		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							11	7.135	6	4.3	6	4.3	23	15.735
Equipment Kits Non-recurring									23	1.7	23	1.6	46	3.3
Engineering Change Orders													0	
Data										.3		.2	0	0.5
Training Equipment								.100		.2		.2	0	0.5
Support Equipment										.2		.1	0	0.3
Software								.055		.1		.2	0	0.355
Interim Contractor Support													0	
Other													0	
Total Procurement Costs:	0		0		0		11	7.3	29	6.8	29	6.6	69	20.69
Hardware Installation:														
(PY) Eqpt ( Kits)													0	
(FY00) Eqpt ( Kits)													0	
(FY01) Eqpt ( Kits)													0	
(FY02) Eqpt (11 Kits)							11	2.200					11	2.2
(FY03) Eqpt (6 Kits)									6	1.7			6	1.7
(FY04) Eqpt (6 Kits)											6	1.7	6	1.7
Total Installation Costs:	0		0		0		11	2.2	6	1.7	6	1.7	23	5.6
Total Modification Costs:	0		0		0		11	9.5	29	8.5	29	8.3	69	26.29

**Method of Installation:** CONTRACTOR, FIELD INSTALL **Administrative Lead-time (After 1 Oct):** 5 Month(s) **Production Lead-time:** 4 Month(s)

<b>Contract Date:</b>	PY		FY2000		FY2001		FY2002	FEB 02	FY2003	FEB 03	FY2004	FEB 04
<b>Delivery Date:</b>	PY		FY2000		FY2001		FY2002	JUN 02	FY2003	JUN 03	FY2004	JUN 04

Installations:	PY	FY2000				FY2001				FY2002				FY2003				FY2004				Total
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
<b>Input</b>											5	6		2	2	1	1	2	2	1	1	23
<b>Output</b>											5	6	2	6	2	2	1	1	2	2	1	22

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**INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A)** **DATE: FEBRUARY 2002**

**Modification Title and No:** North Warning System Interrogator Set Upgrade  
TCT31P6-2FPS117-528, Data Code 31,183

**Models of Systems Affected:** FPS-117 version 1,4,5

**Description/Justification:** An Air Force/FAA joint project. Funds replace radar interrogator sets (beacons), environmental control units (ECU) and fire suppression units. The latter two equipment sets are listed in the Equipment Kits Non-recurring. Their installment cost is contained within the interrogator installment cost. These components for the FPS-117 Long Range Radars have become logistically unsupportable. RDT&E is being funded by the FAA per a previous agreement. The beacons have a higher possibility of failure than do the ECUs, and will be replaced first.

**Development Status/Major Development Milestones:** The FAA funded developmental costs, the Air Force will fund production. There are no required acquisition milestones for this mature system

Financial Plan \$ (in Millions)	PY		FY2000		FY2001		FY2002		FY2003		FY2004		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														
Procurement:														
Equipment Kits							3	2.1	7	5.0	7	5.0	17	12.1
Equipment Kits Non-recurring							7	.6	10	.9	17	1.2	34	2.7
Engineering Change Orders														
Data								.1		.2		.1	0	0.4
Training Equipment								.1		.1		.1	0	0.3
Support Equipment								.1		.1		.1	0	0.3
Software								.1		.1		.1	0	0.3
Interim Contractor Support														
Other														
Total Procurement Costs:	0		0		0		10	3.1	17	6.4	24	6.6	51	16.1
Hardware Installation:														
(PY) Eqpt ( Kits)														
(FY00) Eqpt ( Kits)														
(FY01) Eqpt ( Kits)														
(FY02) Eqpt (3 Kits)							3	.5					3	0.5
(FY03) Eqpt (7 Kits)									7	1.3			7	1.3
(FY04) Eqpt (7 Kits)											7	1.3	7	1.3
Total Installation Costs:	0		0		0		3	0.5	7	1.3	7	1.3	17	3.1
Total Modification Costs:	0		0		0		10	3.6	17	7.7	24	7.9	51	19.2

**Method of Installation:** CONTRACTOR, FIELD INSTALL **Administrative Lead-time (After 1 Oct):** 5 Month(s) **Production Lead-time:** 4 Month(s)

**Contract Date:** PY FY2000 FY2001 FY2002 FEB 02 FY2003 FEB 03 FY2004 FEB 04

**Delivery Date:** PY FY2000 FY2001 FY2002 JUN 02 FY2003 JUN 03 FY2004 JUN 04

Installations:	PY	FY2000				FY2001				FY2002				FY2003				FY2004				Total	
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH		
Input											1	2		2	2	2		1	2	2	2	1	17
Output											1	2		2	2	2		1	2	2	2	1	16

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**INDIVIDUAL MODIFICATIONS (EXHIBIT P- 3A)** **DATE: FEBRUARY 2002**

**Modification Title and No:** Shared Early Warning System (SEWS) **Models of Systems Affected:** Shared Early Warning System (SEWS)

**Description/Justification:** SEWS provides missile event data from a centralized location to users worldwide. Some partner nations are funded with US appropriations while others pay for this service via the FMS program. Information in this submission reflects only the US funded portion of this program. The charter for the SEWS Program Office was to standardize the system architecture using the centralized distribution of data. Legacy systems exist in PACOM and EUCOM. These locations have 8 sites that will be incorporated into the standardized architecture in FY03.

**Development Status/Major Development Milestones:**

Financial Plan \$ (in Millions)	PY		FY2000		FY2001		FY2002		FY2003		FY2004		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E														
Ref. R-1 PE No:														
Procurement:														
Equipment Kits									8	.805			8	0.805
Equipment Kits Non-recurring														
Engineering Change Orders							1	.149	1	.580	1	.149	3	0.878
Data										.0235			0	0.0235
Training Equipment														
Support Equipment														
Software														
Interim Contractor Support										.2408			0	0.2408
Other														
Total Procurement Costs:	0		0		0		1	0.149	9	1.6493	1	0.149	11	1.9473
Hardware Installation:														
(PY) Eqpt ( Kits)														
(FY00) Eqpt ( Kits)														
(FY01) Eqpt ( Kits)														
(FY02) Eqpt ( Kits)							1	.050					1	0.05
(FY03) Eqpt (8 Kits)									9	.0487			9	0.0487
(FY04) Eqpt ( Kits)											1	.050	1	0.05
Total Installation Costs:	0		0		0		1	0.05	9	0.0487	1	0.05	11	0.1487
Total Modification Costs:	0		0		0		1	0.199	9	1.698	1	0.199	11	2.096

**Method of Installation:** CONTRACTOR, FIELD INSTALL **Administrative Lead-time (After 1 Oct):** 2 Month(s) **Production Lead-time:** 7 Month(s)

**Contract Date:** PY FY2000 FY2001 FY2002 NOV 01 FY2003 NOV 02 FY2004 NOV 03

**Delivery Date:** PY FY2000 FY2001 FY2002 JUN 02 FY2003 JUN 03 FY2004 JUN 04

Installations:	PY	FY2000				FY2001				FY2002				FY2003				FY2004				Total								
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH									
Input											1				9									1						11
Output												1				1	5		3					1						11

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**OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE/ALC CALIBRATION PACKAGE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$10,013	\$11,974	\$13,809	\$14,353	\$15,933	\$16,216	\$16,544
<p><b>Description:</b></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 links calibration standards between the weapon system, the Air Force Primary Standards Laboratory (AFPSL), and the National Institute of Standards and Technology (NIST). This link assures that systems used by the operational forces perform their primary mission of delivering weapons on target. Presently, there are 76 Type II and III PMELs and one Field Assistance Team for Calibration (FASTCALs) worldwide. All major aircraft depend heavily on offensive and defensive avionics that must be calibrated to function properly for mission success in wartime, as well as in a training environment. All aircraft engines and airframes require PMEL calibration support. This budget line also supports space and airborne communications/electronics systems such as Military Satellite Command (MILSATCOM).</p> <p>2. Each base PMEL requires a group of certified calibration standards to assure accurate traceable measurements of the basic parameters recognized by the NIST. These calibration standards enable each Air Force activity to attain traceable 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 technological advances in metrology. In addition, as new and sophisticated systems enter the Air Force inventory, selected PMELs must be augmented with special calibration standards or auxiliary equipment, critical to the characteristics of systems supported.</p> <p>3. The following support is provided by these measurement packages:</p> <p style="margin-left: 20px;">a. The Electrical and Mechanical Packages consist of equipment for calibration of common test measurement and diagnostic equipment</p>								
	<b>P-1 ITEM NO</b> 71		<b>PAGE NO:</b> 1			Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> BASE/ALC CALIBRATION PACKAGE			
<b>Description (continued):</b> <p>(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.</p> <p>b. The Electrical Package also provides the PMELs with standards and ancillary equipment used in electro-optical, radio frequency (RF)/microwave, electrical, radiation detection identification and computation technologies, as well as equipment required for precise time and frequency measurement. It supports items such as meter calibrators, automated resistance measurement systems, and peak power meters. Additionally, the Mechanical Package includes standards and ancillary equipment for the mass, dimensional, optical, force, vibration, flow, and environmental measurement areas. This supports items such as humidity generators and hydraulic pressure gauge calibrators.</p> <p>c. The Systems Package consists of equipment for calibrating common TMDE and automatic test equipment (ATE) outside of a normal PMEL facility. Systems package equipment facilitates 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.</p> <p>4. A reduction of requested funding levels will affect the ability of the Air Force to support current weapon system measurements, thus jeopardizing accuracies of Air Force subsystems that provide navigation, weapons delivery, communication and other mission support requirements. Calibration traceability will also be compromised due to lack of state-of-the-art measurement standards.</p> <p>5. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. ELECTRICAL PACKAGE (1)									
A. PHASE NOISE/AMPLITUDE NOISE MEASUREMENT SYSTEM	A			25	\$4,618	18	\$3,325		
B. OSCILLOSCOPE CALIBRATION SYSTEM (1)	A					25	\$1,450	25	\$1,450
C. AC MEASUREMENT STANDARD	A					40	\$1,018		
D. MULTI-PRODUCT CALIBRATOR	A			40	\$846	37	\$783		
E. PROGRAMABLE CAPACITANCE BRIDGE SYSTEM	A					25	\$705	25	\$705
F. WATTMETER CALIBRATOR	A							40	\$1,040
G. NOISE SOURCE CALIBRATION SYSTEM	A							30	\$2,250
H. ATTENUATION RECEIVER	A							25	\$1,500
I. 50 GHZ SPECTRUM ANALYZER	A							25	\$1,500
J. AC DETECTOR SYSTEM	A							25	\$600
K. AUTOMATED RESISTANCE MEASUREMENT SYSTEM	A			11	\$544				
L. PROJECTS LESS THAN \$500K	A				\$1,930		\$1,673		\$1,383
2. MECHANICAL PACKAGE									
A. ENVIROMENTAL MONITORING SYSTEM	A					25	\$1,250	25	\$1,250
B. PROJECTS LESS THAN \$500K	A				\$2,075		\$1,490		\$1,941
		<b>P-1 ITEM NO</b> 71				<b>PAGE NO:</b> 3		Page 1 of 2	

# UNCLASSIFIED

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> BASE/ALC CALIBRATION PACKAGE
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
3. SYSTEMS PACKAGE									
A. PROJECTS LESS THAN \$500K	A				\$0		\$280		\$190
<b>Totals:</b>					\$10,013		\$11,974		\$13,809

**Remarks:**

(1) The unit cost for this item has doubled since the FY 02 PB. Originally the Air Force was procuring an item with low frequency probe heads, however, the Air Force now requires higher frequency heads. Each unit requires five different very expensive frequencies and multi-channel capability.

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002						
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 (1)													
A. PHASE NOISE/AMPLITUDE NOISE MEASUREMENT SYSTEM													
FY01	25	184,720	AFMETCAL	DO/FFP	GSA / AGILENT TECHNOLOGES, ENGLEWOOD, CA	FEB 01	AUG 01						
FY02	18	184,720	AFMETCAL	DO/FFP	GSA / AGILENT TECHNOLOGES, ENGLEWOOD, CA	MAR 02	AUG 02	Y					
B. OSCILLOSCOPE CALIBRATION SYSTEM													
FY02	25	58,000	AFMETCAL	C/FFP	UNKNOWN	MAY 02	NOV 02	N	MAR 02				
FY03	25	58,000	AFMETCAL	C/FFP	UNKNOWN	MAY 03	NOV 03	N	MAR 03				
C. AC MEASUREMENT STANDARD													
FY02	40	25,460	AFMETCAL	DO/FFP	GSA / FLUKE CORP. EVERTT, WA	MAR 02	JUL 02	Y					
D. MULTI-PRODUCT CALIBRATOR													
FY01	40	21,150	AFMETCAL	MIPR/OPT/FFP	NAVY, FLUKE CORP, EVERETT, WA	MAR 01	AUG 01						
FY02	37	21,165	AFMETCAL	MIPR/OPT/FFP	NAVY, FLUKE CORP, EVERETT, WA	APR 02	AUG 02	Y					
E. PROGRAMABLE CAPACITANCE BRIDGE SYSTEM													
FY02	25	28,200	AFMETCAL	C/FFP	UNKNOWN	MAY 02	NOV 02	N	MAR 02				
FY03	25	28,200	AFMETCAL	C/FFP	UNKNOWN	MAY 03	NOV 03	N	MAR 02				
F. WATTMETER CALIBRATOR													
FY03	40	26,000	AFMETCAL	C/FFP W/OPT	UNKNOWN	MAY 03	NOV 03	N	MAR 03				
G. NOISE SOURCE CALIBRATION SYSTEM													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;"><b>P-1 ITEM NO</b> 71</td> <td style="width: 25%; text-align: center;"><b>PAGE NO:</b> 5</td> <td style="width: 25%; text-align: right;">Page 1 of 3</td> </tr> </table>											<b>P-1 ITEM NO</b> 71	<b>PAGE NO:</b> 5	Page 1 of 3
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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	
FY03	30	75,000	AFMETCAL	C/FFP W/OPT	UNKNOWN	MAY 03	NOV 03	N	MAR 03	
H. ATTENUATION RECEIVER										
FY03	25	60,000	AFMETCAL	C/FFP W/OPT	UNKNOWN	MAY 03	NOV 03	N	MAR 03	
I. 50 GHZ SPECTRUM ANALYZER										
FY03	25	60,000	AFMETCAL	C/FFP	UNKNOWN	MAY 03	NOV 03	N	MAR 03	
J. AC DETECTOR SYSTEM										
FY03	25	24,000	AFMETCAL	C/FFP W/OPT	UNKNOWN	APR 03	OCT 03	N	FEB 03	
K. AUTOMATED RESISTANCE MEASUREMENT SYSTEM										
FY01	11	49,450	AFMETCAL	C/FP W/OPT	GUILDLINE INSTRUMENTS, LAKE MARY, FL	JUL 01	JAN 02			
L. PROJECTS LESS THAN \$500K (1)										
FY01			AFMETCAL	C/FFP	MULTIPLE (2)	APR 01	AUG 01			
FY02			AFMETCAL	C/FFP	MULTIPLE (2)	APR 02	AUG 02	Y		
FY03			AFMETCAL	C/FFP	MULTIPLE (2)	APR 03	NOV 03	Y		
2. MECHANICAL PACKAGE (1)										
A. ENVIROMENTAL MONITORING SYSTEM										
FY02	25	50,000	AFMETCAL	C/FFP	UNKNOWN	MAR 02	OCT 02	Y		
FY03	25	50,000	AFMETCAL	C/FFP	UNKNOWN	MAR 03	JUL 03	Y		
. PROJECTS LESS THAN \$500K (1)										
		<b>P-1 ITEM NO</b> 71		<b>PAGE NO:</b> 6		Page 2 of 3				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FY01			AFMETCAL	C/FFP	MULTIPLE (2)	APR 01	AUG 01			
FY02			AFMETCAL	C/FFP	MULTIPLE (2)	APR 02	AUG 02	Y		
FY03			AFMETCAL	C/FFP	MULTIPLE (2)	APR 03	AUG 03	Y		
3. SYSTEMS PACKAGE (1)										
A. PROJECTS LESS THAN \$500K										
FY01			AFMETCAL	C/FFP	MULTIPLE (2)	MAR 01	MAY 01			
FY02			AFMETCAL	C/FFP	MULTIPLE (2)	MAR 02	MAY 02	Y		
FY03			AFMETCAL	C/FFP	MULTIPLE (2)	MAR 03	SEP 03	Y		
<b>REMARKS:</b> 1. Quantity/unit costs vary because of different types/configuration of equipment being procured. 2. Various contracts are available through the following vendors: Flow Dynamics, Scottsdale, AZ; Tektronic Corp, Beaverton, OR; Fluke Corp, Everett, WA. Multiple award and delivery dates to existing contracts; award/delivery date reflect date of first award and delivery.										
		<b>P-1 ITEM NO</b> 71		<b>PAGE NO:</b> 7		Page 3 of 3				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PRIMARY STANDARDS LABORATORY PACKAGE				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$1,095	\$1,073	\$1,107	\$1,128	\$1,152	\$1,171	\$1,194
<p><b>Description:</b></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. FY01-03 AFPSL funding supports all Air Force PMELs by providing the master calibration capability traceable to the National Institute of Standards and Technology (NIST) or other approved sources, 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) the Electrical, Photonics and Nucleonics Package, (b) the Mechanical and Physical Package, and (c) the Systems Package.</p> <p style="padding-left: 40px;">(a) The Electrical, Photonics and 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: 40px;">(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> <p style="padding-left: 40px;">(c) The Systems Package includes Automatic Test Equipment (ATE) equipment used in calibration software and procedure development projects.</p> <p>3. Although AFPSL calibration services and the generation of calibration technical orders are performed by a private contractor, funding for</p>								
	<b>P-1 ITEM NO</b> 72		<b>PAGE NO:</b> 8		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> PRIMARY STANDARDS LABORATORY PACKAGE			
<b>Description (continued):</b> 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 equipment. 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.  4. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO</b> 72		<b>PAGE NO:</b> 9		Page 2 of 2

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (TEST EQUIPMENT)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$9,453	\$17,493	\$8,059	\$15,862	\$16,083	\$16,578	\$17,117
<p><b>Description:</b></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 also supports calibration of aircraft Avionics Intermediate Shop equipment. Failure to procure this equipment will inhibit performance of detailed analysis investigations, impair the maintenance, repair and calibration of state-of-the-art measurement devices leading to increased avionics and communications equipment downtime, and may impair safety of flight or grounding of aircraft, directly impacting Air Force missions.</p> <p>2. There are approximately 7,500 individual test items procured in this line. FY03 funding procures both initial shortages as well as replacement equipment which currently faces obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
<b>P-1 ITEM NO</b> 73		<b>PAGE NO:</b> 11					Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>	<b>DATE: FEBRUARY 2002</b>
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (TEST EQUIPMENT)
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PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
500MHZ OSCILLOSCOPE	6625014504919			150	\$2,000
FSC 4920 - AIRCRAFT MAINTENANCE AND REPAIR SHOP SPECIALIZED EQUIPMENT					\$394
FSC 4940 - MISC MAINTENANCE REPAIR SHOP SPECIALIZED EQUIP					\$173
FSC 5985 - ANTENNAS, WAVE GUIDES AND RELATED EQUIPMENT					\$378
FSC 5996 - AMPLIFIERS					\$732
FSC 6150 - MISC ELECTRIC POWER & DISTRIBUTION EQUIP					\$443
FSC 6625 - ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING & TESTING EQUIP					\$2,985
FSC 6650 - OPTICAL INSTRUMENTS					\$725
FSC 6685 - PRESSURE, TEMPERATURE, AND HUMIDITY MEASURING AND CONTROLLING INSTRUMENTS					\$229
<b>TOTALS:</b>					<b>\$8,059</b>

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$2,889	\$3,298	\$3,814	\$5,503	\$5,642	\$4,685	\$4,769
<p><b>Description:</b></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 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:</p> <p style="margin-left: 40px;">a. AN/PVS-14 Groundcrew Goggle. The Monocular Night Vision Device is a hand-held, head mounted, helmet mounted, or weapon mounted night vision system that enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and administering first aid in both moonlight and starlight. Each unit allows for vertical adjustment (by using head strap), fore-and-aft adjustment, objective lens focus, and diopter adjustment. The monocular is also equipped with an IR source, a low-battery indicator, gain control and third-generation image intensifier. FY03 funding continues procurement of these goggles.</p>								
	<b>P-1 ITEM NO</b> 74		<b>PAGE NO:</b> 13		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES			
<b>Description (continued):</b> <p>b. AN/PVS-7D Groundcrew 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. FY03 funding continues procurement of these goggles.</p> <p>c. 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. FY03 funding continues procurement of these goggles.</p> <p>d. 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. FY03 funding continues procurement of these sets.</p> <p>e. Test Set, Infrared Viewer. The ANV-126 NVG Infrared Viewer Test Set is an electro-optical test system which combines high stability silicon detectors, precision optics, and visible and infrared (IR) Light Emitting Diodes (LED's). It is suitable for field operational checks through depot level NVG maintenance and provides accurate checks for NVG resolution, gain, power drain, binocular goggle collimation, image quality, and image distortion. FY03 funding continues procurement of these sets.</p> <p>4. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>					
	<b>P-1 ITEM NO</b> 74		<b>PAGE NO:</b> 14		Page 2 of 2

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> NIGHT VISION GOGGLES					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. GROUNDCREW GOGGLES					\${504}		\${914}		\${962}
AN/PVS-14	A					12	\$40	9	\$31
AN/PVS-14	A					7	\$26	6	\$23
AN/PVS-7D	A			67	\$204	111	\$338	111	\$352
AN/PVS-7D	A			99	\$300	167	\$510	175	\$556
2. AIRCREW GOGGLES					\${2,092}		\${1,791}		\${2,213}
F-4949G AIRCREW GOGGLE	A			303	\$2,035	255	\$1,711	251	\$2,064
F-4949H AIRCREW GOGGLE	A			9	\$57	12	\$80	21	\$149
3. TEST SET									
INFINITY FOCUS	A			5	\$28	11	\$62	18	\$95
4. TEST SET					\${265}		\${531}		\${544}
INFRARED VIEWER	A			7	\$182	23	\$531	22	\$544
	A			3	\$83				
<b>Totals:</b>					\$2,889		\$3,298		\$3,814
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 74				<b>PAGE NO:</b> 15		Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. GROUNDCREW GOGGLES										
AN/PVS-14										
FY02	12	3,320	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMPE AZ	JAN 02	SEP 02			
FY02	7	3,736	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	JAN 02	SEP 02			
FY03	9	3,458	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMPE AZ	DEC 02	SEP 03	Y		
FY03	6	3,893	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	DEC 02	SEP 03	Y		
AN/PVS-7D										
FY01	66	3,048	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	DEC 00	MAY 01			
FY01	99	3,035	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMPE AZ	FEB 01	AUG 02			
FY01	1	3,048	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	OCT 01	JUL 02			
FY02	111	3,047	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	JAN 02	SEP 02			
FY02	167	3,054	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMPE AZ	JAN 02	SEP 02			
FY03	111	3,169	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	DEC 02	SEP 03	Y		
FY03	175	3,176	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/LITTON/TEMPE AZ	DEC 02	SEP 03	Y		
		<b>P-1 ITEM NO</b> 74				<b>PAGE NO:</b> 16		Page 1 of 3		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
2. AIRCREW GOGGLES										
F-4949G AIRCREW GOGGLE										
FY01	303	6,717	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	DEC 00	JUL 01			
FY02	255	6,710	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	MAR 02	DEC 02	Y		
FY03	251	8,224	AFMC/WR-ALC	MIPR/OPT/FFP	ARMY/CECOM/ITT/ROANOKE VA	DEC 02	SEP 03	Y		
F-4949H AIRCREW GOGGLE										
FY01	9	6,337	AFMC/WR-ALC	C/FFP W/OPT	ITT/ROANOKE VA	FEB 01	MAY 01			
FY02	12	6,667	AFMC/WR-ALC	C/FFP W/OPT	ITT/ROANOKE VA	MAR 02	DEC 02	Y		
FY03	21	7,095	AFMC/WR-ALC	C/FFP W/OPT	ITT/ROANOKE VA	DEC 02	SEP 03	Y		
3. TEST SET										
INFINITY FOCUS										
FY01	5	5,605	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	FEB 01	MAR 01			
FY02	11	5,593	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	NOV 01	APR 02			
FY03	18	5,250	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	FEB 03	JUN 03	Y		
4. TEST SET										
		<b>P-1 ITEM NO</b> 74		<b>PAGE NO:</b> 17		Page 2 of 3				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NIGHT VISION GOGGLES						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
INFRARED VIEWER										
FY01	3	27,500	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	JUL 01	JUL 01			
FY01	7	25,930	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	FEB 01	MAR 01			
FY02	23	23,100	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	NOV 01	DEC 01			
FY03	22	24,740	AFMC/WR-ALC	SS/IDIQ	HOFFMAN ENG/STAMFORD CT	FEB 03	JUN 03	Y		
REMARKS:										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (PERSONAL SAFETY & RESCUE)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$11,813	\$10,578	\$9,312	\$6,862	\$3,692	\$5,834	\$5,961
<p><b>Description:</b></p> <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. Representative items include laser eye protection, survival radio test sets, life rafts, life preservers, breathing equipment, water demineralizers, parachutes, and anti-exposure coveralls. Personal safety and rescue equipment is essential for the safety, rescue and protection of critical Air Force resources.</p> <p>2. FY03 funding procures initial shortages as well as replacement equipment currently approaching obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p> <p>3. The following project was added by Congress in the FY02 markup of the Air Force budget. Reference Appropriation Conference Report 107-350, 19 December 2001, page 294:              SCOT Life Support and Communications Tester</p>								
	<b>P-1 ITEM NO</b> 75			<b>PAGE NO:</b> 19			Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (PERSONAL SAFETY & RESCUE)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
LASER EYE PROTECTION	NSL			5213	\$4,520
RADIO TEST SET	6625014759885MH			30	\$1,247
LIFE RAFT, 20 MAN	4220005633567MH			300	\$806
LIFE PRESERVER, MB-1	4220006061994MH			1466	\$860
FSC 4210 FIRE FIGHTING EQUIPMENT					\$137
FSC 4220 MARINE LIFESAVING AND DIVING EQUIPMENT					\$513
FSC 4240 SAFETY AND RESCUE EQUIPMENT					\$314
FSC 4610 WATER PURIFICATION EQUIPMENT					\$296
FSC 8475 SPECIALIZED FLIGHT CLOTHING & ACCESSORIES					\$619
<b>TOTALS:</b>					<b>\$9,312</b>
	P-1 ITEM NO 75		PAGE NO: 20		Page 1 of 1

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$22,906	\$19,361	\$25,612	\$14,585	\$14,833	\$15,097	\$15,404
<p><b>Description:</b></p> <p>1. The Mechanized Material Handling Equipment P-1 line provides funding for Mechanized Material Handling Systems (MMHS), Storage Aids Systems (SAS), and Automatic Identification Technology (AIT) projects.</p> <p style="margin-left: 40px;">a. <b>MMHS/SAS PROGRAMS:</b> MMHS and SAS programs provide bases worldwide with automated and static equipment for storing, receiving, and shipping material. MMHS and SAS equipment involves the design and acquisition of mechanized and non-automated material handling systems and storage aids systems for all Air Force supply and transportation facilities. Supply systems generally include equipment such as receiving, storage, and distribution systems (RSDS), automated guided vehicle systems (AGVS) high density storage systems (HDSS), small parts handling systems (SPHS), vertical carousel systems (VCS), conveyor systems (CONV), mezzanines (MEZZ), pneumatic tube systems (PTS), vertical storage and retrieval systems (VSRS), and a variety of SAS equipment including racks, bin shelving, and modular cabinets. Transportation systems generally include equipment such as aircraft passenger loading bridges and/or inbound/outbound (IB/OB) baggage conveyor systems (BCONV) for passenger terminals, heavy duty freight handling conveyors (FCONV), pallet build-up/breakdown stations, elevating transfer vehicles (ETV), external fuel tanks (EFT), and overhead bridge cranes (OH CRN) for air freight terminal (AFT) systems; roller conveyor, cranes (CRANE), and hoists (HOIST) 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 involves Air Force capability to respond to crises and threats whenever they occur in the world. MMHS/SAS equipment increases the productivity of Air Force support personnel, enhances management control of assets, reduces multiple handling of logistical materials, increases the flexibility at a minimum investment cost, enhances safe operations, reduces losses due to damage of materials in transport, and reduces congestion and delays in air terminals.</p> <p style="margin-left: 40px;">b. <b>AIT PROGRAMS:</b> AIT is a collection of enabling technologies including linear and two-dimensional bar codes, radio frequency</p>								
	<b>P-1 ITEM NO</b> 76		<b>PAGE NO:</b> 21		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT			
<b>Description (continued):</b> identification, 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. AIT management information systems include, but are not limited to: Supply Asset Tracking System (SATS), Mobility Inventory Control Accountability System (MICAS), Tool Control Systems (TCS), Armory Tracking (ARM), Vehicle Tracking Work Order Generation System (VTS), CRYPTO Inventory Control System (CICS), Combat Ammunition System (CAS), Radio Frequency Tag Tracking System (TAGS), Munitions Data Capture Base Level System (MDCBL), AF Distance Clearing Center (AFDCC), Bare Base Reconstitution & Management System (BBRMS), Commercial Product Marking (CPM), Munitions Data Capture Depot System (MDCD), Clothing Issue Management System (CIMS), Common Access Card (CAC), Civil Engineering Integration (CEI), Joint AMS/FMS Receipt Processing (FMS), H53 Helo Project, Cargo Movement Operations System (CMOS), Joint Munitions Project (MUN) and Hazardous Material Management System (HMMS).  c. SUPPLY ASSET TRACKING SYSTEM (SATS): Funding for this program was added by Congress in the FY01 and FY02 markup of the Air Force Budget. Reference FY01 HAC Report 106-644, June 2000, page 135; FY01 Appropriations Conference Report 106-754, July 2000, page 208; and FY02 Appropriations Conference Report 107-350, December 2001, page 291. Supply Asset Tracking System provides total asset visibility and reduces documentation at base level. It is a front-end processing application to the Standard Base Supply 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.  2. MMHS/SATS/AIT equipment by major command and individual projects are listed on the following P40a document. Items requested for procurement in FY02 and FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO</b> 76		<b>PAGE NO:</b> 22		Page 2 of 2

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. AIR COMBAT COMMAND (ACC)	A				\${900}		\${1,010}		\${450}	
SAS					\${900}		\${660}		\${450}	
NELLIS AFB, NV					\$200					
TINKER AFB, OK					\$400					
MINOT AFB, ND					\$200					
MT HOME AFB, ID					\$100					
EGLIN AFB, FL							\$400			
HOLLOMAN AFB, NM							\$160			
SEYMOUR JOHNSON AFB, NC							\$100			
BARKSDALE AFB, LA									\$200	
CANNON AFB, NM									\$150	
LANGLEY AFB, VA									\$100	
RSDS							\${350}			
BARKSDALE AFB, LA							\$350			
2. AIR EDUCATION & TRAINING COMMAND (AETC)	A				\${550}		\${649}		\${1,500}	
RSDS					\${550}					
FAIRCHILD AFB, WA					\$150					
LACKLAND AFB, TX					\$400					
COLLATOR SYSTEM							\${649}			
		P-1 ITEM NO 76		PAGE NO: 23				Page 1 of 9		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
MAXWELL AFB, AL							\$649		
RSDS									\$(500)
ALTUS AFB, OK									\$500
EFT									\$(800)
TYNDALL AFB, FL									\$800
SAS									\$(200)
VANCE AFB, OK									\$200
3. AF CIVIL ENGINEERING & SUPPORT ACTIVITY (AFCESA)	A				\${180}		\${120}		\$(650)
SAS					\${180}		\${120}		\$(300)
MT HOME AFB, ID					\$75				
SPANGDAHLEM AB, GE							\$120		
MINOT AFB, ND					\$105				
YOKOTA AB, JA									\$300
RSDS									\$(350)
HILL AFB, UT									\$350
		P-1 ITEM NO 76		PAGE NO: 24				Page 2 of 9	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
4. AIR FORCE MATERIAL COMMAND (AFMC)	A				\${1,300}		\${823}		\${970}
CONV									\${50}
DAVIS MONTHAN AFB, AZ									\$50
RSDS					\${800}		\${230}		
HILL AFB, UT					\$800				
ROBINS AFB, GA							\$230		
SAS							\${393}		\${250}
ROBINS AFB, GA							\$393		\$250
OH CRN									\${350}
ROBINS AFB, GA									\$350
PTS					\${500}		\${200}		\${320}
HILL AFB, UT					\$500		\$200		\$320
5. AIR FORCE SPACE COMMAND (AFSPC)	A				\${800}				\${150}
RSDS					\${650}				
PATRICK AFB, FL					\$650				
P-1 ITEM NO 76					PAGE NO: 25		Page 3 of 9		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT					<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
AFT					\${150}					
PATRICK AFB, FL					\$150					
HDSS									\${150}	
CAPE CAVARENAL AFS, FL									\$150	
6. AIR MOBILITY COMMAND (AMC)	A				\${7,681}		\${7,794}		\${18,061}	
AFT					\${6,650}		\${6,734}		\${15,561}	
KADENA AB, JA							\$600		\$9000	
TRAVIS AFB, CA					\$5842					
NAPLES NAS, IT					\$440					
AVIANO AB, IT									\$100	
HICKAM AFB, HI					\$150					
RAMSTEIN AB, GE					\$218		\$6134		\$6111	
EIELSON AFB, AK									\$350	
SAS					\${152}		\${560}		\${700}	
MCCONNELL AFB, KS					\$152					
ANDREWS AFB, MD							\$210			
DYESS AFB, TX							\$50		\$150	
LITTLE ROCK AFB, AR							\$150		\$150	
		<b>P-1 ITEM NO</b> 76		<b>PAGE NO:</b> 26				Page 4 of 9		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
PUERTO RICO ANGB, PR							\$200		
KIRTLAND ANGB, NH							\$200		
ELLINGTON ANGB, TX							\$215		
SAVANNAH IAP, GA							\$250		
JOHNSTOWN-CAMBIA ANGB, PA							\$250		
RICHMOND ANGB, VA									\$300
WILL ROGERS ANGB, OK									\$250
RENO ANGB, NV									\$230
VSRS					\${175}				
JACKSONVILLE ANGB, FL					\$175				
SAS					\${100}				
LITTLE ROCK ANGB, AR					\$100				
APF							\${100}		
RENO/TAHOE ANGB, NV							\$100		
MEZZ					\${225}				
GREAT FALLS ANGB, MT					\$225				
8. US AIR FORCE EUROPE (USAFE)	A				\${270}		\${300}		\${551}
		<b>P-1 ITEM NO</b> 76		<b>PAGE NO:</b> 28				Page 6 of 9	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
HDSS					\${270}		\${300}		
LAKENHEATH AB, UK					\$270				
AVIANO AB, IT							\$300		
SAS									\${551}
AVIANO AB, IT									\$551
9. PACIFIC AIR FORCES (PACAF)	A								\${500}
SAS									\${250}
YOKOTA AB, JA									\$250
RSDS									\${250}
EIELSON AFB, AK									\$250
10. USAF-WIDE/AIT	A				\${1,900}		\${2,000}		\${2,000}
CICS									\${800}
HURLBURT AFB, FL & EGLIN AFB, FL									\$800
CAS					\${1,150}				
EGLIN AFB, FL					\$1150				
H-53 HELO					\${125}				
HURLBERT AFB, FL					\$125				
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
TAGS					\${500}				
WRIGHT PATTERSON AFB, OH					\$500				
AFDCC					\${125}				
MAXWELL AFB, AL					\$ 125				
CPM						\${800}			
EGLIN AFB, FL & SHAW AFB, SC						\$800			
MDCD						\${800}			
EGLIN AFB, FL & HILL AFB, UT						\$800			
CAC						\${400}			
EGLIN AFB, FL						\$400			
ARM									\${700}
KIRTLAND AFB, NM									\$700
CEI									\${500}
TYNDALL AFB, FL									\$500
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MECHANIZED MATERIAL HANDLING EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
10A. USAF-WIDE/SATS	A				\${8,000}		\${5,000}		
WORLDWIDE CONGRESSIONAL ADD					\$8000		\$5000		
<b>Totals:</b>					\$22,906		\$19,361		\$25,612
<p><b>Remarks:</b></p> <p>Item 10A reflects FY01 (\$8M) and FY02 (\$5M) Congressional adds to implement the Supply Asset Tracking System (SATS) worldwide.</p>									
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (BASE INDUSTRIAL SUPPORT EQ)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$9,156	\$9,437	\$12,256	\$12,471	\$12,728	\$12,955	\$13,214
<p><b>Description:</b></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. FY03 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 FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
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			FY2003	
		QTY.	COST	QTY.	COST
FSC 3220 - WOODWORKING MACHINES					\$279
FSC 3405 - SAWS AND FILING MACHINES					\$535
FSC 3408 - MACHING CENTERS AND WAY TYPE MACHINES					\$108
FSC 3410 - ELECTRICAL AND ULTRASONIC EROSION MACHINES					\$153
FSC 3413 - DRILLING MACHINES					\$ 171
FSC 3415 - GRINDING MACHINES					\$520
FSC 3416 - LATHES					\$2,374
FSC 3417 - MILLING MACHINES					\$1,190
FSC 3419 - MISCELLANEOUS MACHINE TOOLS					\$289
FSC 3424 - METAL HEAT TREATING EQUIPMENT					\$611
FSC 3426 - METAL FINISHING EQUIPMENT					\$58
FSC 3431 - ELECTRIC ARC WELDING EQUIPMENT					\$100
FSC 3432 - ELECTRIC RESISTANCE WELDING EQUIPMENT					\$453
FSC 3433 - GAS WELDING, HEAT CUTTING, & METALIZING EQUIPMENT					\$68
FSC 3441 - BENDING AND FORMING MACHINES					\$3,966
FSC 3445 - PUNCHING AND SHEARING MACHINES					\$1,249
FSC 4430 - INDUSTRIAL FURNACES, KILNS AND OVENS					\$132
<b>TOTALS:</b>					<b>\$12,256</b>
		<b>P-1 ITEM NO</b> 77			<b>PAGE NO:</b> 33
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FLOODLIGHTS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$17,269	\$6,946	\$11,023	\$1,635	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. Floodlights are one of the most valuable and versatile pieces of support equipment in the Air Force inventory. They support many facets of maintenance operations including night maintenance on aircraft, loading and unloading cargo, and providing essential emergency lighting. They play a critical role in perimeter defense, emergency disaster coverage and aircraft accident on-site investigations as well as provide auxiliary power for air conditioners and portable x-ray equipment.</p> <p>2. The Air Force procured the current NF-2 floodlights as early as 1960; some of these earliest units are still in the inventory. As such, all currently fielded NF-2 and unmodified NF-2D floodlights have exceeded their useful service life by approximately 13 years. Spare parts are no longer available through contract sources for repair of the floodlight sets. The FL-1D floodlight replaces these unsupported models. The FL-1D, consists of a tower for mounting two 1,000 watt floodlights, power distribution equipment, and a diesel engine driven generator set, permanently mounted on a 4-wheel trailer type chassis. By virtue of being 50 percent smaller than previously fielded models, FL-1Ds dramatically reduce airlift requirements assisting in the Air Force's increasing mission role as an expeditionary force. In FY97, a new contract for the FL-1D floodlight was awarded to UNICOR (Prison Industries), Big Springs, Texas. FY03 continues funding for procurement of floodlights.</p> <p>3. The following projects were added by Congress in the FY01 markup of the FY01 Air Force budget. Reference Appropriation Conference Report 106-754, July 17, page 210:              Mobile Expeditionary Accurate Night Vision Compatible Portable Airfield Lighting System (MEANPALS)              Cold Cathode Landing Lights</p> <p>4. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FLOODLIGHTS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
FL1D FLOODLIGHTS	A			908	\$13,069	466	\$6,946	722	\$11,023
MEANPALS	A				\$2,200				
COLD CATHODE LANDING LIGHTS	A				\$2,000				
<b>Totals:</b>					\$17,269		\$6,946		\$11,023
<b>Remarks:</b>									
<b>P-1 ITEM NO</b> 78					<b>PAGE NO:</b> 35		Page 1 of 1		

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
FL1D FLOODLIGHTS										
FY01	908	14,393	AFMC/WR-ALC	MIPR/FFP	UNICOR, BIG SPRINGS, TX	JAN 01	MAY 01			
FY02	466	14,906	AFMC/WR-ALC	MIPR/FFP	UNICOR, BIG SPRINGS, TX	JAN 02	APR 02			
FY03	722	15,267	AFMC/WR-ALC	MIPR/FFP	UNICOR, BIG SPRINGS, TX	JAN 03	APR 03	Y		
<p><b>REMARKS:</b>            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 WHICH INCLUDES THESE FLOODLIGHTS. THE AF SUBMITTED A MIPR TO UNICOR IN JAN 1997 FOR INITIAL PRODUCTION OF THREE OPERATIONAL TEST &amp; EVALUATION UNITS. IN AUG 1997, UNICOR AWARDED A CONTRACT TO A "MANUFACTURING PARTNER," T&amp;J MFG, OSHCOSH, 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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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (ELECTRICAL EQUIPMENT)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,406	\$6,061	\$6,201	\$10,319	\$10,444	\$10,420	\$10,422
<p><b>Description:</b></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. This equipment supports daily operations as well as contingencies, natural disasters and requirements for 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. FY03 funding procures initial shortages as well as replacement equipment which is currently approaching obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>				<b>DATE: FEBRUARY 2002</b>	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT			<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (ELECTRICAL EQUIPMENT)		
<b>PROCUREMENT ITEMS</b>	<b>NSN</b>			<b>FY2003</b>	
		<b>QTY.</b>	<b>COST</b>	<b>QTY.</b>	<b>COST</b>
GENERATOR, MEP 805B	6115014619335			83	\$1,918
GENERATOR, MEP 806B	6115014620291			23	\$605
GENERATOR, MEP 831A	6115012853012			36	\$348
MINOR PROJECTS					
FSC 6110 - ELECTRICAL CONTROL EQUIPMENT					\$1,413
FSC 6115 - GENERATORS - PWR PLANTS					\$1,917
<b>TOTALS:</b>					<b>\$6,201</b>
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$23,646	\$11,840	\$11,321	\$14,738	\$7,123	\$8,981	\$9,163
<p><b>Description:</b></p> <p>1. To reduce costs, federal policy relieves the services from wholesale management of non-military or commercial items. Bases and units throughout the Air Force acquire authorized equipment of this nature directly from the General Services Administration (GSA), Defense Logistics Agency (DLA), one of the other services, or from commercial sources. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing \$100,000 or more, which is not centrally managed and procured. Typical application for BPE include roads and grounds maintenance; vehicle maintenance shops; vehicle corrosion control facilities; specialized tool kits and test equipment, civil engineering maintenance equipment, electrical and carpenter shops; specialized laboratories; kitchen and dining facilities; printing plants; air conditioning; heating requirements; microfilm and graphics support facilities.</p> <p>2. The equipment described above is needed for day-to-day maintenance and operation of bases, weapons and support systems assigned to 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; beddown of new weapon systems; reorganizations; natural disasters; new operational methods to increase efficiency and safety; 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.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> BASE PROCURED EQUIPMENT						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. PACIFIC AIR FORCES	A				\$1335		\$585		\$586	
2. AF SPEC OPERATIONS CMD	A				\$595		\$600		\$602	
3. AIR COMBAT CMD	A				\$2796		\$2895		\$2931	
4. US AIR FORCES EUROPE	A				\$625		\$637		\$3101	
5. AIR FORCE SPACE CMD	A				\$1232		\$471		\$467	
6. AF COMM SERVICE	A				\$0		\$234		\$0	
7. AIR MOBILITY CMD	A				\$346		\$0		\$0	
8. AIR NATIONAL GUARD	A				\$4661		\$0		\$0	
9. AIR FORCE RESERVES	A				\$2982		\$0		\$0	
10. AIR EDUCATION & TRNG CMD	A				\$1131		\$5018		\$2094	
11. US AIR FORCE ACADEMY	A				\$1217		\$1176		\$1305	
12. AF CIVIL ENGR SPT AGENCY	A				\$1200		\$224		\$235	
13. AFMC	A				\$5526		\$0		\$0	
<b>Totals:</b>					\$23,646		\$11,840		\$11,321	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 80				<b>PAGE NO:</b> 40			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$16,268	\$15,374	\$13,992	\$14,313	\$14,594	\$15,181	\$15,485
<p><b>Description:</b></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 maintained large hospitals throughout Europe, ready to receive casualties during a conflict with Warsaw Pact countries. Current doctrine and diminished forward basing requires the Air Force to maintain medical readiness assets in CONUS which can be rapidly transported via cargo aircraft to any location in the world, and upon arrival, quickly set up and be prepared 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 medical 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. Theater Medical Information Program (TMIP): TMIP incorporates all DOD medical information systems that have a theater application. Wartime medical communication requirements differ radically from peacetime requirements. Commanders require real-time information on WIA personnel and their treatment--type, numbers, location; reports detailing casualty location and medical status ranging from the front line to rear echelons; logistical data--resource consumption information, supply inventories, logistical pipeline data, material delivery information, what materiel can be diverted to satisfy a higher priority; and medical personnel--matching medical/surgical capability and availability/locations with WIA requirements.</p> <p style="margin-left: 40px;">The current medical wartime communications infrastructure consists of readily available landlines and radio technology that dates from the late 1950s. TMIP will provide inter/intra unit medical communications systems for ground and Air Force theater medical units through use</p>								
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT			
<p><b>Description (continued):</b></p> <p>of secure and non-secure telephone lines, wireless and satellite media. The result will be a deployable, organic medical information infrastructure which is capable of transmitting voice, electronic mail, data and images, and is interoperable with other services/communications systems. It will integrate new and existing high frequency and ultra high frequency radios, satellite communications, and computer systems. FY01, FY02 and FY03 funding will provide operating capability in the form of information management hardware required for the TMIP system, equipping many of our medical assemblages.</p> <p>b. Modernization and Replacement: This program provides for replacement and modernization of centrally managed and procured equipment items. This funding procures equipment items and components using a mission-based priority system. Funding constraints often dictate procuring less than the inventory objective of each item--necessitating multiple procurement activities to eventually achieve maximum deployable readiness. To maximize the number of 100% deployable units, some of each of the following requirements are being procured:</p> <ul style="list-style-type: none"><li>(1) Alaskan Shelters (New Family of Portable Shelters)</li><li>(2) Communications Equipment</li><li>(3) Environmental Control Units</li><li>(4) Generators, Power Distribution Panels</li></ul> <p>c. Aeromedical Evacuation Support Platform (AESP): Safe transportation of spinal cord injury patients between medical treatment facilities is necessary to prevent further trauma to the patient. The AESP seeks to ensure that patients with spinal cord injuries, burns, or multiple trauma who must be airlifted significant distances receive the same quality care in transit that would be available from medical treatment facilities. AESPs will incorporate kinetic therapy technology for treating and preventing complications of immobility, skeletal traction, and stability for the spine.</p> <p>Several operational performance parameters are unique to the AESP design and its aero medical evacuation mission. AESPs must be sufficiently light and portable to permit a minimum number of individuals to pick both it and the patient up for transport into the medical evacuation aircraft, ambulance, or ambus. The device must also 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, AESP must be</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT			
<b>Description (continued):</b> made of extremely durable lightweight materials to withstand the rigors of flight. The medical evacuation aircraft on which AESP will be used include the C-9, C-17, C-130, UH-60A, and the Civil Reserve Air Fleet (CRAF).  d. Critical Care Support Platform (CCSP): The Aeromedical Evacuation (AE) mission is to provide air transport and care-in-the-air for varying combinations of ambulatory, litter and critical care patients on intra- and inter-theater missions ranging up to 14 hours in duration. When critical patients are transported, a critical care air transport team (CCAT Team) augments aeromedical evacuation crewmembers. CCAT Teams bring specialized clinical skills and employ advanced medical equipment to monitor and support critical patients during air transport. Currently available patient platforms do not provide appropriate medical support for critical patients with respect to several key parameters: 360 degree medical access in flight, securing and organizing medical equipment during transport, preventing decubitus ulcers at the patient's pressure points, and facilitating patient transfers between ground and air transport during embarkation and debarkation. To carry out the AE mission in peace and war, the Air Force Medical Service needs the CCSP to provide the AE missions and CCAT Teams with this capability. The CCSP will incorporate commercially available components and technology to achieve the current medical standard of care for a trauma patient from the point of evacuation to a higher level of care.  e. Collective Protection for Expeditionary Medical System (CP-EMEDS): Current Defense Planning Guidance (DPG) and OPlans place significant emphasis on the ability for forces to sustain operations before, during, and after chemical-biological (chem-bio) attacks due to the widespread proliferation of chem-bio weapons and missiles by potentially hostile states. As such, the Air Force Medical Service (AFMS) has a need for a field-deployable hospital with chem-bio collective protection capability. The Expeditionary Medical System (EMEDS) is the primary tool of the Air Expeditionary Force (AEF) "light and lean with capability" construct for the AFMS. It meets theater Commander in Chief (CINC) requirements across the full spectrum of military operations as a highly mobile hospital system designed to be airlifted to the front lines of the battlefield to provide medical care. An increased probability of operating in a chem-bio threat environment prompted design efforts to integrate chem-bio protection elements in to EMEDS to allow medical personnel to operate without the use of mission-oriented protective posture (MOPP) gear. The result is CP-EMEDS. The deployment of CP-EMEDS meets current Air Force Combat Support Doctrine and significantly reduces airlift requirements from the older chem-bio hardened Air Transportable Hospital (CHATH). Significant savings in set-up time and manpower required to erect CP-EMEDS has also been demonstrated.					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT			
<b>Description (continued):</b> <p>f. Deployable Oxygen System (DOS): DOS will provide United States Pharmacopoeia (USP) 93% therapeutic medical grade oxygen to deployed scenarios, including wartime operations, deterrence and contingency operations, peacetime engagement, crisis response, and humanitarian relief operations. Aeromedical evacuation (AE) and ground-based medical missions require an oxygen generating system capable of providing therapeutic oxygen to patients and oxygen-driven support equipment in-flight and on the ground. The current methods employed to meet these requirements are becoming logistically unsupportable. The advancement in aircraft On-Board Oxygen Generation Systems (OGOGS) has significantly decreased the forward availability of oxygen re-supply capabilities. The Air Force Medical Service can no longer rely on line support for oxygen and therefore must generate its own. The major function of DOS is to generate, liquefy, store and deliver USP 93% medical grade oxygen. DOS is proposed as a system of systems comprising a gaseous oxygen generator, a oxygen liquefier, and a liquid oxygen (LOX) storage vessel. The gaseous oxygen generator and LOX storage vessel will supply a continuous flow of no less that 93% USP medical grade oxygen to meet ground-based user requirements. Associated research and development (R&amp;D) funds will accomplish the prototyping and design changes required for final IOT&amp;E milestone. Reference PE 64617f in the Air Force Descriptive Summaries.</p> <p>3. Items requested on the following P-40a are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>					
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MEDICAL/DENTAL EQUIPMENT						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
A. TMIP	A			1	\$8,520	1	\$3,590	1	\$2,890	
B. MODERNIZATION & REPLACEMENT	A			1	\$6,498	1	\$4,085	1	\$5,893	
C. AESP	A			125	\$1,250					
D. CCSP	A					25	\$2,250			
E. CP-EMEDS	A					1	\$5,449	1	\$2,200	
F. DOS	A							164	\$3,009	
<b>Totals:</b>					\$16,268		\$15,374		\$13,992	
<b>Remarks:</b>										
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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. TMIP										
FY01 (1)	1	8520000	AFMC/HSC	C/FFP	MULTIPLE (2)	JAN 01	MAR 01			
FY02 (1)	1	3590000	AFMC/HSC	C/FFP	MULTIPLE (2)	JAN 02	MAR 02			
FY03(1)	1	2890000	AFMC/HSC	C/FFP	MULTIPLE (2)	JAN 03	MAR 03	Y		
B. MODERNIZATION & REPLACEMENT										
FY01 (1)	1	6498000	AFMLO	C/FFP	MULTIPLE (3)	DEC 00	JAN 01			
FY02 (1)	1	4085000	AFMLO	C/FFP	MULTIPLE (3)	JAN 02	FEB 02			
FY03 (1)	1	5893000	AFMLO	C/FFP	MULTIPLE (3)	JAN 03	MAR 03	Y		
C. AESP										
FY01	125	10,000	AFMC/HSC	C/FFP	BUFFALO SUPPLY INC , LAFAYETTE CO	AUG 01	JAN 02			
D. CCSP										
FY02	25	90,000	AFMC/HSC	C/FFP	UNKNOWN	FEB 02	MAY 02	Y		
E. CP-EMEDS										
FY02 (1)	1	5449000	AFMC/HSC	C/FFP	MULTIPLE (4)	FEB 02	JUN 02	Y		
FY03 (1)	1	2200000	AFMC/HSC	C/FFP	MULTIPLE (4)	FEB 03	JUN 03	Y		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
F. DOS										
FY03	164	18,348	AFMC/HSC	C/FFP	UNKNOWN	DEC 02	MAR 03	Y		
<b>REMARKS:</b> 1. Quantities and unit costs vary based on configuration. 2. AFMLO (Air Force Medical Logistics Office, Fort Detrick, Maryland) MIPRs funds to AFMC/HSC, who will act as the oversight office and integration facility for the Air Force. AFMC/HSC will also use various contracts with GSA to purchase additional TMIP items which do not require system integration. 3. AFMLO uses various contracts at multiple ALCs such as RACAL Communications, Rockville, MD; Alaska Industrial Resources, Anchorage, Alaska; and EASI Engineered Air Systems Inc, Saint Louis, MO. The award date and date of first delivery represent the first award of funding and the initial delivery of equipment. 4. AFMC/HSC will use various methods to procure over 60 CP-EMEDS components. The majority of the components are procured via the base supply requisition system. About 10 components are procured from SBCCOM Natick Center (Army). Four components (CP Liners) are C/FFP from Production Products Manufacturing and Sales, St Louis MO and Intellitec, Deland FL. Five components (CP Liner Flooring) are C/FFP from Alaska Industrial Resources Inc. One Component (FFA 400 Blower) is a C/FFP from Hunter Manufacturing Co, Solon OH.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$932	\$936	\$817	\$830	\$848	\$0	\$0
<p><b>Description:</b></p> <p>1. The Air Force Materiel Command (AFMC) Pollution Prevention (P2) Environmental Projects Program procures equipment necessary to ensure compliance with environmental laws, executive orders, regulations, and Department of Defense (Do D) directives. This program provides equipment that reduces the Air Force's (AF) environmental compliance burden through hazardous waste minimization, wastewater pretreatment, air pollutant emission reduction, and solid waste recycling. Equipment purchases provide improvements to the day-to-day operations in AF installations and result in increased capability to support the AF.</p> <p>2. Following are descriptions of FY01-03 individual projects:</p> <p>FY01:</p> <p>a. Robotic Plastic Media Paint Stripping System, Robins AFB, GA: The present use of chemical-based paint strippers for removing coatings from aircraft components and parts results in the generation of regulated air emissions and hazardous waste. The procurement of a robotic plastic media paint stripping system at Robins AFB in FY01 will significantly reduce those emissions and the waste generation.</p> <p>b. Powder Coating System, Robins AFB, GA: An electrolytically charged powder paint coating process has 40-70% better material transfer than typical spray-gun paint applications; with over spray accumulation having the capability to be recycled. With Robins' conventional hand-gun sprays, application efficiencies only achieve a 20% maximum material transfer to substrate with wasted material over spray going to atmosphere and control process. With environmental compliance regulations, Robins AFB undergoes a number of compliant responsibilities to maintain its present paint spray equipment and booths for their depot mission in aircraft sustainment and aerospace ground support equipment (AGE) maintenance. Replacement via powder coat paint application will significantly reduce disposal of hazardous paint wastes (RCRA), decrease hazardous material coatings usage/purchase, almost complete elimination of paint volatile organic</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS	
<b>Description (continued):</b> compounds (VOC) emissions (Aerospace National Emissions Standards for Hazardous Air Pollutants (NESHAPs)), and require no solvent use (Total Release Inventory (TRI)) either for mixing nor paint gun cleaning.  c. Ion Vapor Deposition Sputtered Aluminum System, Hill AFB, UT: The external surfaces of landing gear are presently coated with aluminum using the Ion Vapor Deposition process. This has proven to be a great improvement over the previous cadmium plating process by reducing the generation of hazardous waste, the generation of industrial wastewater, and the exposure of workers to highly toxic cadmium. Internal surfaces of the landing gear, however, must still be cadmium plated because conventional Ion Vapor Deposition technology is not capable of putting a coating on internal diameters. The purchase of an Ion Vapor Deposition Sputtered Aluminum System will enable the Hill AFB to put the same aluminum coating on both the external and internal surfaces of the landing gear. This equipment will further reduce the generation of hazardous waste and wastewater and greatly improve working conditions.  FY02:  d. Industrial Wastewater Pretreatment, Tinker AFB, OK: FY02 funds will procure equipment to pretreat the concentrated wastewater from the aircraft maintenance area. By pre treating the concentrated wastewater, the loading on the Industrial Wastewater Treatment Plant (IWTP) will be more dilute, resulting in reduced chemical usage per gallon and a reduction in the generation of hazardous sludge.  e. A-LIX Treatment System, Robins AFB, GA: FY02 funds will purchase Anion Liquid Ion Exchange (A-LIX) equipment to remove chromium from the chrome plating line wastewater, without generating a sludge. The end product is a concentrate chrome solution that can be reused in the plating shop or sold back to the vendor.  f. Ultrahigh Pressure Water Jet Stripping of Thermal Sprayed Coatings, Tinker AFB, OK: This project will purchase an ultra-high pressure water jet spray system to physically remove thermal-sprayed metallic coatings. The part is mounted on a turntable where a robotic arm directs the nozzle to spray the part with the highly pressurized water in a preprogrammed path. This system will reduce the amount of hazardous waste generated from the present chemical or grit blasting processes, by allowing for the filtering of the removed coating from the water.			
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS			
<b>Description (continued):</b>					
<p>g. ElectroSpark Deposition (ESD), Hill AFB, UT: FY02 funds will procure a semi-automated metal deposition system that is designed to provide durable line-of-sight coatings to a wide array of landing gear substrates. The technology is commercially available and currently employed by the Department of Energy for its nuclear reactor components. Current Hill AFB chrome plating practices use wet-chemistry electrolysis. Various landing gear sustainment activities require entire chemical masking of large landing gear assemblies in order to plate relatively minute areas. ESD, with its wide metallurgical coating/plating applications, will eliminate wet-plating practices to coat small landing gear surface areas; hazardous plating waste discharges and sludge disposal; significantly reduce hazardous chemical maskants; and do away with inefficient wet chrome plating practices.</p>					
FY03:					
<p>h. ElectroSpark Deposition (ESD), Tinker AFB, OK: FY03 funds will procure a semi-automated metal deposition system that is designed to provide durable line-of-sight coatings to a wide array of aircraft and missile Gas Turbine Engine (GTE) components. The technology is commercially available and currently employed by the Department of Energy for its nuclear reactor components. Current Tinker AFB chrome plating practices utilize wet chemistry electrolysis. Various GTE component sustainment activities require near complete chemical masking of the components in order to plate relatively minute areas. ESD with its wide metallurgical coating/plating applications will eliminate wet plating practices to coat small GTE component surface areas; reduce hazardous plating waste discharges and sludge disposal; significant reduction of hazardous chemical maskants; and do away with inefficient wet chrome plating practices.</p>					
<p>i. Handheld Laser Paint Stripper, Eglin AFB, FL: This equipment will remove paint without the use of chemical strippers. FY03 funding will procure portable equipment that removes paint on armament and weapon system areas that typically are inaccessible (e.g. complex geometric, fragile surfaces) by larger automated paint removal systems. Proven technology indicates this Laser application generates significantly less hazardous waste, and reduces significant compliance under Aerospace NESHAPS and Clean Water Act requirements.</p>					
<p>j. Handheld Laser Paint Stripper, Robins AFB, GA: This equipment will remove paint without the use of chemical strippers. FY03 funding will procure portable laser depaint equipment that removes paint from areas of aircraft outer moldline and aircraft components that typically are inaccessible (e.g. complex geometric, fragile surfaces, on-flight line maintenance) by larger automated paint removal systems. Proven</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS			
<b>Description (continued):</b> technology indicates this laser application generates significantly less hazardous waste, and reduces significant compliance under Aerospace NESHAPS and Clean Water Act requirements.  k. A-LIX Treatment System, Hill AFB, UT: FY03 funds will purchase Anion Liquid Ion Exchange (A-LIX) equipment to remove chromium from the chrome plating line wastewater, without generating a sludge. The end product is a concentrate chrome solution that can be reused in the plating shop or sold back to the vendor.  1. Powder Paint Coating Process, Eglin, AFB, FL: An electrolytically charged powder paint coating process has 40-70% better material transfer than typical spray-gun paint applications; with over spray accumulation having the capability to be recycled. With Eglin's conventional hand-gun sprays, application efficiencies only achieve a maximum 20% material transfer to substrate with wasted material over spray going to atmosphere and control process. With environmental compliance regulations, Eglin undergoes a number of compliance responsibilities to maintain its present paint spray equipment and booths for their armament sustainment systems and Aerospace Ground support Equipment (AGE) maintenance. With incorporating replacement via powder coat paint application will significantly reduce disposal of hazardous paint wastes (RCRA), decrease hazardous material coatings usage/purchase; almost complete elimination of paint VOC emissions (Aerospace NESHAPS), and no solvent use (TRI) is required either for mixing or paint gun cleaning.  3. Items requested in FY 03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO</b> 82		<b>PAGE NO:</b> 51		Page 4 of 4

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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>	<b>DATE:</b> FEBRUARY 2002
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<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT	<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS
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PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. ROBOTIC PLASTIC MEDIA PAINT STRIPPING SYSTEM, ROBINS AFB, GA	A			1	\$248				
B. POWDER COATING SYSTEM, ROBINS AFB, GA	A			1	\$258				
C. ION VAPOR DEPOSITION SPUTTERED ALUMINUM SYSTEM, HILL AFB, UT	A			1	\$426				
D. INDUSTRIAL WASTEWATER PRETREATMENT, TINKER AFB, OK	A					1	\$285		
E. A-LIX TREATMENT SYSTEM, ROBINS AFB, GA	A					1	\$300		
F. ULTRAHIGH PRESSURE WATER JET STRIPPING OF THERMAL SPRAYED COATINGS, TINKER AFB, OK	A					1	\$231		
G. ELECTROSPARK DEPOSITION (ESD), HILL AFB, UT	A					1	\$120		
H. ELECTROSPARK DEPOSITION (ESD), TINKER AFB, OK	B							1	\$105
I. HANDHELD LASER PAINT STRIPPER, EGLIN AFB, FL	B							1	\$138
J. HANDHELD LASER PAINT STRIPPER, ROBINS AFB, GA	B							1	\$136
K. A-LIX TREATMENT SYSTEM, HILL AFB, UT	B							1	\$219
L. POWDER COATING PROCESS, EGLIN AFB, FL	B							1	\$219
<b>Totals:</b>					\$932		\$936		\$817

**Remarks:**

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS						
ITEM / FISCAL 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. ROBOTIC PLASTIC MEDIA PAINT STRIPPING SYSTEM, ROBINS AFB, GA										
FY01	1	248,000	AFMC/WR-ALC	SS/FFP	FANUC ROBOTICS, ROCHESTER HILLS. MI	JUN 01	DEC 01			
B. POWDER COATING SYSTEM, ROBINS AFB, GA										
FY01	1	258,000	AFMC/WR-ALC	DO/CPFF	SAIC, SAN DIEGO, CA	JUN 01	NOV 01			
C. ION VAPOR DEPOSITION SPUTTERED ALUMINUM SYSTEM, HILL AFB, UT										
FY01	1	426,000	AFMC/OO-ALC	SS/FFP	BOEING, ST LOUIS, MO	MAY 01	NOV 01			
D. INDUSTRIAL WASTEWATER PRETREATMENT, TINKER AFB, OK										
FY02	1	285,000	AFMC/OC-ALC	C/FFP	UNKNOWN	MAY 02	DEC 02	N	APR 02	
E. A-LIX TREATMENT SYSTEM, ROBINS AFB, GA										
FY02	1	300,000	AFMC/WR-ALC	C/FFP	UNKNOWN	MAY 02	DEC 02	N	APR 02	
F. ULTRAHIGH PRESSURE WATER JET STRIPPING OF THERMAL SPRAYED COATINGS, TINKER AFB, OK										
FY02	1	231,000	AFMC/OC-ALC	C/FFP	UNKNOWN	MAY 02	DEC 02	N	APR 02	
G. ELECTROSPARK DEPOSITION (ESD), HILL AFB, UT										
FY02	1	120,000	AFMC/OO-ALC	C/FFP	UNKNOWN	MAY 02	DEC 02	N	APR 02	
H. ELECTROSPARK DEPOSITION (ESD), TINKER AFB, OK										
FY03	1	105,000	AFMC/OC-ALC	C/FFP	UNKNOWN	MAY 03	DEC 03	N	APR 02	
		<b>P-1 ITEM NO</b> 82		<b>PAGE NO:</b> 53		Page 1 of 2				

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ENVIRONMENTAL PROJECTS						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
I. HANDHELD LASER PAINT STRIPPER, EGLIN AFB, FL										
FY03	1	138,000	AFMC/AAC	C/FFP	UNKNOWN	MAY 03	DEC 03	N	APR 03	
J. HANDHELD LASER PAINT STRIPPER, ROBINS AFB, GA										
FY03	1	136,000	AFMC/WR-ALC	C/FFP	UNKNOWN	MAY 03	DEC 03	N	APR 03	
K. A-LIX TREATMENT SYSTEM, HILL AFB, UT										
FY03	1	219,000	AFMC/WR-ALC	C/FFP	UNKNOWN	MAY 03	DEC 03	N	APR 03	
L. POWDER COATING PROCESS, EGLIN AFB, FL										
FY03	1	219,000	AFMC/AAC	C/FFP	UNKNOWN	MAY 03	DEC 03	N	APR 03	
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 82			<b>PAGE NO:</b> 54			Page 2 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$2,921	\$5,942	\$5,700	\$5,670	\$5,655	\$5,643	\$5,633
<b>Description:</b>								
<p>1. Air Base Operability (ABO), a subset of Agile Combat Support, provides integrated capabilities to support aircraft deployment, launch, recovery and regeneration at air bases worldwide. The ABO and Air Force Civil Engineering Readiness top priorities are to safely perform reconnaissance, locate and neutralize unexploded ordnance (UXO) and accomplish damage assessment. Force protection capabilities, including explosive ordnance disposal (EOD) operations, have become increasingly vital in protecting personnel, aircraft and other critical resources, both at home and abroad. In addition to wartime operations, EOD supports global contingencies for force protection, relief efforts, and special operations. ABO capabilities provided by robotics programs are crucial in reducing time and danger when investigating and eliminating explosive hazards.</p> <p style="margin-left: 40px;">A. All-purpose Remote Transport System (ARTS) is a low cost survivable platform capable of remote operations at distances of 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 OST Joint Robotics Program. OST through Wright Laboratory worked with a vendor to take initial prototypes of this tool directly from the laboratory to the field. Reference Program Element 64617F of the Air Force Research and Development (R&amp;D) Descriptive Summaries.</p> <p style="margin-left: 40px;">B. ARTS Attachments/EOD Support Equipment dramatically improves response time when neutralizing explosive hazards, thus saving lives and reducing damage. The Navy Explosive Ordnance Technology Division (NAVEODTECHDIV) is the OSD Executive Agent for joint service EOD R&amp;D. Production funding is provided by individual services (reference PE 64617F of the Air Force R&amp;D Descriptive Summaries). The Air Force requires the following equipment for the safety of deployed personnel and expedient removal of unexploded ordnance hazards. The following procurements are programmed during FY02-03:</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY			
<b>Description (continued):</b>					
<p>1) 90MM Water Cannons: These are ARTS attachments which neutralize improvised explosive devices (IEDs) in mid-size sedans and vans.</p> <p>2) Recoilless, Multidirectional Water Cannon Mount: The recoilless capability provides spring action to reduce wear and tear on water cannon mount. The multidirectional capability affords operation in confined spaces such as alleyways and areas where it is either not practical or possible to realign the ARTS platform to discharge the water cannon.</p> <p>3) ARTS Alternate Control System: This system provides an alternate control capability where RF remote control cannot be used or when RF link is lost.</p> <p>4) Remote Ordnance Neutralization System (RONS): This is a medium-sized EOD robot which includes a tele-operated platform and robotics manipulator that can be controlled by an operator at the operator control station (OCS) up to a distance of 650 meters. Remote control results in greater safety during the performance of hazardous/high risk tasks such as reconnaissance, access, pick up and carry away (PUCA), and disposal.</p> <p>5) RONS Advanced Radiographic System(ARS) Upgrade will provide enhanced capability to investigate small- sized suspected terrorist devices such as pipe bombs or briefcase bombs. The ARS upgrade will also provide EOD operators a better means of assessing threats and determining the best neutralization method.</p> <p>6) MK-VI Robot: This is a small, narrow robot equipped with multiple television cameras for remote viewing and a dexterous manipulator for hazardous tasks. The MK-VI Robot is designed to allow operation in confined spaces.</p> <p>2. In FY02, Air Base Operability received \$8.316M as part of the Defense Emergency Relief Fund (DERF). Funding was used to procure critical Explosive Ordnance Disposal equipment in support of operation ENDURING FREEDOM.</p>					
	<b>P-1 ITEM NO</b> 83		<b>PAGE NO:</b> 56		Page 2 of 3

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY			
<b>Description (continued):</b> 3. Items requested in FY 03 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO</b> 83		<b>PAGE NO:</b> 57		Page 3 of 3

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 2002		
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT						P-1 NOMENCLATURE: AIR BASE OPERABILITY								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY2001			FY2002			FY2003			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
A. ARTS							{854}			{2,859}			{1,686}	
ARTS HARDWARE	A				3	190,333	571	6	195,000	1,170	7	205,000	1,435	
INTERIM CONTRACTOR SUPPORT (ICS)							90			270				
CRITICAL ITEM SETS (1)					1	92,000	92	4	72,000	288				
ENGINEERING CHANGE ORDERS							101			1,131			251	
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT							{2,067}			{3,083}			{4,014}	
90MM WATER CANNON	A							10	10,000	100				
RECOILLESS, MULTIDIRECTIONAL WATER CANNON MOUNT	A										21	25,500	536	
ARTS ALTERNATE CONTROL SYSTEM	A										21	45,500	956	
RONS	A				19	108,789	2,067	28	106,525	2,983	3	183,333	550	
RONS ARS SYSTEM UPGRADE	A										81	12,000	972	
MK-VI ROBOTS	A										8	125,000	1,000	
<b>TOTALS:</b>							2,921			5,942			5,700	
<b>REMARKS:</b>														
1. CRITICAL ITEM SETS CONSIST OF A CENTRAL PROCESSOR UNIT, FIXED CAMERA ASSEMBLY, ANTENNA SET, OPERATOR CONTROL STATION, AND BACKHOE ACTUATOR CONTROL NODE.														
	<b>P-1 ITEM NO</b> 83						<b>PAGE NO:</b> 58					Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: AIR BASE OPERABILITY						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
A. ARTS										
ARTS HARDWARE										
FY01	3	190,333	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES, SOUTH ROYALTON, VT	AUG 01	FEB 02			
FY02	6	195,000	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES, SOUTH ROYALTON, VT	FEB 02	MAY 02	Y		
FY03	7	205,000	AFMC/AAC	OPT/FFP	APPLIED RESEARCH ASSOCIATES, SOUTH ROYALTON, VT	FEB 03	MAR 03	Y		
B. ARTS ATTACHMENTS/EOD SUPPORT EQUIPMENT										
90MM WATER CANNON										
FY02	10	10,000	AFMC/AAC	SS/FFP	NAVY/NAVEODTECHDIV, INDIANHEAD, MD	FEB 02	APR 02			
RECOILLESS, MULTIDIRECTIONAL WATER CANNON MOUNT										
FY03	21	25,500	AFMC/AAC	SS/FFP	APPLIED RESEARCH ASSOCIATES, SOUTH ROYALTON, VT	FEB 03	MAY 03	Y		
ARTS ALTERNATE CONTROL SYSTEM										
FY03	21	45,500	AFMC/AAC	SS/FFP	APPLIED RESEARCH ASSOCIATES, SOUTH ROYALTON, VT	FEB 03	JUL 03	Y		
RONS										
		<b>P-1 ITEM NO</b> 83		<b>PAGE NO:</b> 59		Page 1 of 2				

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR BASE OPERABILITY						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
FY01	19	108,789	AFMC/AAC	MIPR/FFP	NAVY/NAVEODTECH DIV, INDIANHEAD, MD REMOTEC, OAK RIDGE, TN	FEB 01	JUL 01			
FY02	28	106,525	AFMC/AAC	MIPR/FFP	NAVY/NAVEODTECHDIV, INDIANHEAD, MD REMOTEC, OAK RIDGE, TN	FEB 02	JUL 02	Y		
FY03	3	183,333	AFMC/AAC	MIPR/FFP	NAVY/NAVEODTECHDIV, INDIANHEAD, MD REMOTEC, OAK RIDGE, TN	FEB 03	JUL 03	Y		
RONS ARS SYSTEM UPGRADE										
FY03	81	12,000	AFMC/AAC	MIPR/FFP	NAVY/NAVEODTECHDIV, INDIANHEAD, MD REMOTEC, OAKRIDGE, TN	FEB 03	JUL 03	Y		
MK-VI ROBOTS										
FY03	8	125,000	AFMC/AAC	C/FFP	UNKNOWN	FEB 03	JUL 03	Y		
<b>REMARKS:</b>										
		<b>P-1 ITEM NO</b> 83				<b>PAGE NO:</b> 60		Page 2 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PHOTOGRAPHIC EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$5,982	\$5,805	\$5,893	\$5,997	\$6,120	\$6,229	\$6,353
<p><b>Description:</b></p> <p>1. The Photographic Equipment program procures still photography, 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 and deployable image management teams and Base Visual Information Service Centers by replacing worn out, obsolete 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 requirements for commanders at all levels including the National Command Authority, the Chairman, Joint Chiefs of Staff, and installation commanders. The Visual Information Service Centers provide: education and training; public and internal information; and still, graphic and multimedia imaging. 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): FY03 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): FY03 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 style="margin-left: 40px;">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 is to replace film and</p>								
	<b>P-1 ITEM NO</b> 84		<b>PAGE NO:</b> 61		Page 1 of 2			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> PHOTOGRAPHIC EQUIPMENT			
<p><b>Description (continued):</b></p> <p>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 interoperability 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. FY03 funding continues replacement of the remaining film/chemical systems as well as replacement of original electronic systems which are rapidly reaching end of useful life.</p> <p>2. The following P-40a depicts funding associated with categories of photographic equipment. Items in these categories procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PHOTOGRAPHIC EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. PHOTO PROJ EQ (FSC 6730)	A				\$500		\$271		\$300
B. PHOTO EQ AND ACC (FSC 6760)	A				\$2945		\$3017		\$3000
C. ELECTRONIC IMAGING CENTER CONVERSIONS	A				\$2537		\$2517		\$2593
<b>Totals:</b>					\$5,982		\$5,805		\$5,893
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 84				<b>PAGE NO:</b> 63		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$8,183	\$7,903	\$7,806	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. This P-1 line (previously called Productivity Investments) 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 which are the Major Commands (MAJCOMs) provide their own offsets from projected savings to sustain future investments for these programs. Elimination of this funding would reduce the capability to implement productivity improvements and enhancements in the work place and throughout the Air Force. FY 01-02 funding provides support for PIF and FASCAP projects. FY 03 funding provides support for FASCAP projects, only.</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 \$9 for every \$3 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 \$10 for every \$2 invested.</p> <p>2. Items requested on the following P-40a are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
	<b>P-1 ITEM NO</b> 85			<b>PAGE NO:</b> 64		Page 1 of 1		

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. PIF										
A. REPLACE SIMS FOOD INVENTORY SOFTWARE (AFSVA)	A				\$1,301					
B. GLOBAL POSITIONING SYSTEM (PACAF)	A				\$1,250					
C. COMMERCIAL POWER TO PILSUNG RANGE, KOREA (PACAF)	A				\$218					
D. TUB GRINDER FOR ELMENDORF, ALASKA (PACAF)	A				\$255					
E. COMMERCIAL POWER TO LAJES, AZORES (ACC)	A				\$151		\$2,821		\$0	
2. FASCAP	A				\$5,008		\$5,082		\$7,806	
<b>Totals:</b>					\$8,183		\$7,903		\$7,806	
<b>Remarks:</b>  AFSVA is the Air Force Services Agency. PACAF is HQ Pacific Air Forces. ACC is HQ Air Combat Command.										
		<b>P-1 ITEM NO</b> 85				<b>PAGE NO:</b> 65		Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 NOMENCLATURE: PRODUCTIVITY ENHANCING CAPITAL INVESTMENTS						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
1. PIF										
A. REPLACE SIMS FOOD INVENTORY SOFTWARE (AFSVA)										
FY 01 (1)(3)			11WING	DO/FFP	MULTIPLE (2)	OCT 00	SEP 00			
B. GLOBAL POSITIONING SYSTEM (PACAF)										
FY 01			HQ PACAF	MIPR/SS/FFP	MULTIPLE (4)	AUG 01	AUG 01			
C. COMMERCIAL POWER TO PILSUNG RANGE, KOREA (PACAF)										
FY 01			HQ PACAF	DO/FFP	SEONGBO CO., SEOUL, KOREA	MAY 01	MAY 01			
D. TUB GRINDER FOR ELMENDORF, ALASKA (PACAF)										
FY 01			HQ PACAF	DO/FFP	GRAYBAR, ANCHORAGE, AK	APR 01	JUL 01			
E. COMMERCIAL POWER TO LAJES, AZORES (ACC)										
FY 01			HQ ACC	DO/FP	ELECTRICIDADE DOS ACORES, ISLAND OF TERCEIRA	SEP 01	SEP 01			
<b>REMARKS:</b> (1) Unit costs vary because of different types/configuration of equipment being procured. (2) Four Contractors: Orient Infotech Inc., Edison, NJ; Ibertech Inc., Bedford, TX; Dell Computers, Round Rock, TX; and Secure Info, San Antonio, TX. (3) This is made up of seven procurements. All have been awarded and delivered. (4) Two Contractors: Trimble, Sonnyvale, CA and Geolnsight International Inc., Carpinteria, CA										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$49,563	\$30,283	\$102,990	\$95,788	\$37,225	\$32,358	\$32,534
<p><b>Description:</b></p> <p>1. Expeditionary Airfield Basing Assets, better known as Harvest Falcon (HF) and Harvest Eagle (HE) includes equipment to support the beddown of deployed forces (personnel, aircraft, support equipment, munitions) at austere sites where infrastructure is lacking, has been destroyed or to augment operations at existing sites. HF and HE are composed of four types of support packages configured for cold-weather or desert operations: Housekeeping packages that provide between 550-1100 personnel with a robust tent city (kitchens, laundry, hygiene facilities and billeting); Industrial Operations packages provide power generation, maintenance shops, airfield systems, water distribution, field exchange and mortuary infrastructure; and Initial and Follow-on Flightline packages that consist of revetment kits, airfield lighting, aircraft hangars, fire stations, and numerous additional systems to support flightline operations. Cost includes (in CONUS or prepositioned overseas), inventory reconstitution, spares and consumables, repairs, and procurement of new equipment for upgrades or replacement. Expeditionary Airfield Basing Assets, are a crucial enabler for the AF's Expeditionary Air Force strategy. These assets proved to be invaluable in Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, Desert Focus, Desert Fox, Noble Anvil and Allied Force. Significant quantities of HF and HE assets were successfully employed during Operations Allied Force and Noble Anvil to support operational and humanitarian requirements in Kosovo, Albania, Italy, and Northern Turkey. Operation Enduring Freedom recently deployed over 50 percent of the available Expeditionary Airfield Basing Assets, again demonstrating the critical role these assets play in support of expeditionary operations.</p> <p>2. The following kinds of equipment are being procured:</p> <p style="margin-left: 40px;">A. REFUELING SYSTEMS: Consists of the fuel bladders used to store fuel to support power production and aircraft.</p> <p style="margin-left: 40px;">B. REFRIGERATION EQUIPMENT SYSTEMS: Consists of the Field Deployable Environment Control Units used as heaters and air conditioners for facilities. Also included are refer units to support food, mortuary and medical services.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>		<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT	
<b>Description (continued):</b>  C. WATER SYSTEMS: Consists of equipment used to treat, store, distribute water and remove wastewater to include latrines, shower units, have units, water loop systems, water bladders, and laundry.  D. RUNWAY SUBSYSTEMS: Consists of airfield related assets to include lighting and aircraft arresting systems, matting for aircraft parking and hangar floors, and revetments for aircraft protection.  E. ELECTRICAL SUBSYSTEM: Consists of power generation, distribution and associated equipment.  F. SHELTERS: Consists of various size soft and hardwall shelters used for billeting, industrial shops, warehouses and aircraft hangars.  G. SHOP EQUIPMENT: Consists of tools, jacks, machines, tests sets, compressors and kits used to support various industrial shops.  H. MISCELLANEOUS: Includes fire extinguishers, pumps, trailers and various other pieces of support equipment used to support systems and subsystems.  3. Associated Research and Development funds for Expeditionary Airfield Basing Assets Systems Medium Shelters and the Deployable Power Generation and Distribution Systems (DPGDS) for Falcon and Eagle are through the Aeronautical Systems Center (AAC), Eglin AFB, FL. as part of the Agile Combat Support development effort. Reference PE 64617F in the Air Force Descriptive Summaries.  4. The following project was added by Congress in the FY02 markup of the Air Force budget. Reference Appropriation Conference Report 107-350, 19 December 2001, page 294: Heli-Basket Technology			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT		
<b>Description (continued):</b> 5. Items requested in FY03 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support Air Force mission requirements.				
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE: FEBRUARY 2002</b>		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MOBILITY EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. REFUELING SYSTEMS	A				\$2,345				\$437
B. REFRIGERATION EQUIP SYSTEMS	A				\$5,437		\$6,230		\$19,999
C. WATER SYSTEMS	A				\$1,818		\$1,990		\$4,356
D. RUNWAY SUBSYSTEMS	A				\$4,342		\$14,866		\$17,735
E. ELECTRICAL SUBSYSTEMS	A				\$22,048		\$1,086		\$37,357
F. SHELTERS	A				\$10,336		\$2,145		\$20,309
G. SHOP EQUIPMENT	A						\$467		\$773
H. MISCELLANEOUS	A				\$3,237		\$499		\$2,029
HELI-BASKET TECHNOLOGY	A						\$3,000		
<b>Totals:</b>					\$49,563		\$30,283		\$102,995
<b>Remarks:</b>									
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	JUN 01	JAN 02			
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	FEB 03	JUN 03	Y		
B. REFRIGERATION EQUIP SYSTEMS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 01	AUG 01			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	JUL 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	DEC 02	FEB 03	Y		
C. WATER SYSTEMS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	NOV 00	MAY 01			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	SEP 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	FEB 03	APR 03	Y		
D. RUNWAY SUBSYSTEMS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	DEC 01	AUG 02			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	JUN 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	FEB 03	MAY 03	Y		
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2002			
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 SUBSYSTEMS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	JUN 01	JAN 02			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	JUN 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	NOV 02	DEC 02	Y		
F. SHELTERS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 01	APR 01			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	JUL 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	NOV 02	FEB 03	Y		
G. SHOP EQUIPMENT										
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	MAY 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	FEB 03	APR 03	Y		
H. MISCELLANEOUS										
FY 01			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	NOV 01	JAN 02			
FY 02			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	MAR 02	JUN 02	Y		
FY 03			AFMC/WR-ALC	OTH/OTH	MULTIPLE [1]	FEB 03	MAY 03	Y		
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>						<b>DATE:</b> FEBRUARY 2002				
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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	
<p><b>REMARKS:</b>                      [1] Various contract methods, types and sources will be utilized. Award/delivery dates reflect date of first award and first delivery. Examples of contractors include: Army/TACOM Reliance Coated Fabrics, Mansfield, TX; Army/TACOM Reliance Aero, East Camden, AR; Army/SBCCOM, Natick, MA; AAR Manufacturing Inc., Cadillac, MI; KECO Industries Inc., Florence, KY; Highland Engineering Inc., Howell, MI; JGB Enterprises Inc., Liverpool, NY; UNICOR, Big Springs, TX; Engineered Arresting System, Co., Aston, PA; Gil Marketing, Phoenix, AZ; Eagle Marketing, Houston, TX; Procurement/SPS, West Caldwell, NJ; Radian, Inc., Alexandria, VA; Simplex Inc., Springfield, IL; MC II General Electric, Inc., Tulsa, OK; Alaska Industrial Resources, Inc., Montrose, CO; California Industrial Facilities, Kirtland, WA; Universal Fabric, Quakertown, PA; Hunter Heaters, Solon, OH; and SPX Corporation, Owatona, MN.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR CONDITIONERS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$9,176	\$7,058	\$9,593	\$3,656	\$3,732	\$3,799	\$3,875
<p><b>Description:</b></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), a Class II ozone depleting substance scheduled to be phased out by 2005. New procurement items contain a non-ozone depleting refrigerant (R-134a), required for the government to comply with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act, which necessitate the elimination of HCFC-22 refrigerant.</p> <p>2. The Field Deployable Environmental Control Unit (FDECU) is an electric-motor driven, vapor cycle, skid-mounted air conditioner with a cooling capacity of 55,000 to 67,000 British Thermal Units (BTU) 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. HQ Air Combat Command rates the FDECU as one of its top priority items for Bare Base shelter support. Additionally, a nuclear, biological, chemically hardened version of the FDECU supports War Reserve Material (WRM) requirements for field transportable hospitals. The FDECU will replace assets that have exceeded their service life, can no longer be economically repaired or maintained, and which also utilize HCFC-22 refrigerant. All new units comply with the Montreal Protocol Treaty and Clean Air Act. FY03 funding continues procurement of the FDECU.</p> <p>3. Items requested in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> AIR CONDITIONERS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
AIR CONDITIONERS	A			847	\$9,176	664	\$7,058	950	\$9,593
<b>Totals:</b>					\$9,176		\$7,058		\$9,593
<b>Remarks:</b>									
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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> 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 CONDITIONERS										
FY01	847	10,833	AFMC/WR-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	DEC 00	APR 01			
FY02	664	10,630	AFMC/WR-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	JAN 02	OCT 02	Y		
FY03	950	10,098	AFMC/WR-ALC	OPT/FFP	KECO INDUSTRIES, FLORENCE, KY	JAN 03	JUN 03	Y		
<b>REMARKS:</b> A COMPETITIVE, FIRM FIXED PRICE CONTRACT AWARDED IN JUN 1997 TO KECO INDUSTRIES, FLORENCE, KY. THE ABOVE UNIT COSTS ARE IN ACCORDANCE WITH THE NEGOTIATED CONTRACT.										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$17,890	\$24,791	\$16,131	\$25,629	\$27,759	\$28,280	\$28,849
<p><b>Description:</b></p> <p>1. This program provides a wide variety of base support items with worldwide application. Examples include servicing platforms, aircraft arresting systems, compressors with various applications, refrigeration units, heaters, pallets to support Air Force missions, and military working dogs (used for base and anti-terrorist protection). This equipment provides prime support for all base missions. Lack of funding for these equipment items limits maintenance capabilities, testing functions, anti-terrorism/security missions, communications capabilities, flight operations and the ability of Air Force units to meet deployment requirements.</p> <p>2. FY03 funding procures initial shortages as well as replacement equipment currently approaching obsolescence. All items have an annual procurement value of less than \$5,000,000 and are Code A. Items requested for procurement in FY03 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p>								
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
BAK-12 AIRCRAFT ARRESTING SYSTEM (AAS)	1710010985024			2	\$538
TF-2 FLOODLIGHT (DEPLOYMENT)	6230014665315			152	\$2,872
DECONTAMINATING APPARATUS	4230013463122			11	\$513
COLLAPSIBLE FABRIC TANK	5430010788816			15	\$737
LIGHTWEIGHT FAIRLEND BEAM (LWFB) CONFIGURATION SET	1710013703909			11	\$1,502
MILITARY WORKING DOGS (MULTIPLE NSNS)				263	\$991
FSC 1710 - AIRCRAFT ARRESTING SYS					\$476
FSC 3439 - MISC WELDING, SOLDERING, AND BRAZING EQP					\$228
FSC 3950 - WINCHES, HOISTS, CRANES AND DERRICKS					\$257
FSC 4110 - REFRIGERATION EQUIP					\$393
FSC 4130 - REFRIGERATION & AIR CONDITIONING PLANTS & COMPONENTS					\$566
FSC 4310 - COMPRESSORS/VAC PUMPS					\$216
FSC 4320 - POWER & HAND PUMPS					\$367
FSC 4460 - AIR PURIFICATION EQUIPMENT					\$256
FSC 4610 - WATER PURIFICATION EQUIP					\$351
FSC 4630 - SEWAGE TREATMENT EQUIP					\$283
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2002	
APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000 (BASE SUPPORT EQUIP)			
PROCUREMENT ITEMS	NSN			FY2003	
		QTY.	COST	QTY.	COST
FSC 4910 - MOTOR VEHICLE MAINTENANCE & REPAIR SHOP SPECIALIZED EQP					\$269
FSC 4920 - AIRCRAFT MAINTENANCE & REPAIR SHOP SPECIALIZED EQP					\$473
FSC 4930 - LUBRICATION & FUEL EQUIP					\$496
FSC 4933 - WEAPONS MAINTENANCE & REPAIR SHOP SPECIALIZED EQP					\$311
FSC 4940 - MISC MAINTENANCE REPAIR EQUIP					\$397
FSC 5411 - RIGID WALL SHELTERS					\$1,142
FSC 5430 - STORAGE TANKS					\$359
FSC 5440 - SCAFFOLDING EQUIP AND CONCRETE FORMS					\$386
FSC 5450 - MISC PREFABRICATED STRUCTURES					\$813
FSC 6230 - ELECTRIC PORTABLE AND HAND LIGHTING EQUIPMENT					\$302
FSC 6650 - OPTICAL INSTRUMENTS					\$91
FSC 6665 - HAZARD DETECTING EQUIP					\$182
FSC 6670 - SCALES AND BALANCES					\$43
FSC 6685 - PRESSURE & TEMP EQUIP					\$173
FSC 6695 - COMBINATION AND MISCELLANEOUS INSTRUMENTS					\$148
<b>TOTALS:</b>					<b>\$16,131</b>
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$2,948	\$4,205	\$4,057	\$4,120	\$4,199	\$4,224	\$4,163
<p><b>Description:</b></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 specialists 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. Based on rapid technology advancements and the critical need for AFOSI to maintain pace, 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 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 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. These specialists have continually proved critical to resolving major investigations. AFOSI polygraph examiners conduct over 4,200 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</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT			<b>P-1 NOMENCLATURE:</b> TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT		
<p><b>Description (continued):</b></p> <p>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.</p> <p>4. The following categories of investigative equipment are being procured in FY02-03. Project funding by fiscal year is provided on the following P-40a. This equipment is required to counter the level of sophistication of foreign governments/intelligence services, terrorists, and criminals, e.g. the September 11th and USS Cole terrorist attacks, US State Department bug, etc.</p> <p>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.</p> <p>b. Specialized Law Enforcement 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 agents' safety. Video and audio monitoring is often done remotely and specialized 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. 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 and other areas, AFOSI's ability to detect and solve crimes with lawfully collected evidence will be greatly diminished. Lastly, the capability to analyze and enhance audio and</p>					
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT		<b>P-1 NOMENCLATURE:</b> TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT			
<b>Description (continued):</b> 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 and Intrusion Investigation Systems. The evolution of a new wave of computer crimes has made AFOSI responsible for the collection, investigative analysis, national level law enforcement coordination, and dissemination of hacker activity and intrusion incidents for the Air Force. AFOSI's computer crime equipment must stay on the leading edge of technology to collect criminal information as well as pursue and apprehend criminals through the global medium. AFOSI must continually update its existing high tech computer surveillance equipment to support ongoing and future investigative operations to identify hackers and hacker groups, as well as potential hostile government activities targeting Air Force communication and control systems. This 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 equipment consists of computer network monitoring systems and computer forensic equipment.  5. This administration has not addressed FY 2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.					
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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>							<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
A. TSCM SURVEY SYSTEMS	A				\$1997		\$1905		\$1985
B. SPECIALIZED LAW ENFORCEMENT SURVEILLANCE EQUIPMENT	A				\$487		\$1000		\$1072
C. COMPUTER CRIME/INTRUSION INVESTIGATION SYSTEM	A				\$464		\$1300		\$1000
<b>Totals:</b>					\$2,948		\$4,205		\$4,057
<b>Remarks:</b>									
		<b>P-1 ITEM NO</b> 90				<b>PAGE NO:</b> 83		Page 1 of 1	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DARP RC135				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$15,640	\$14,108	\$13,123				
<p><b>Description:</b></p> <p>FY04-FY07 - Detailed information DARP-RC 135 program remains classified and will be provided on a need-to-know basis. For further information, please contact USAF/XOIRC, 614-7317.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> DARP MRIGS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$87,907	\$88,606	\$115,777				
<p><b>Description:</b></p> <p>FY04-FY07 - Detailed information DARP- MRIGS program remains classified and will be provided on a need-to-know basis. For further information, please contact USAF/XOIRY, 697-0810.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE:</b> FEBRUARY 2002	
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> MODIFICATIONS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$176	\$209	\$201	\$212	\$203	\$207	\$211
<p><b>Description:</b></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 FY03 are for "Miscellaneous Low Cost Modifications" to satisfy historically unforeseen modification requirements.</p>								
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				<b>P-1 NOMENCLATURE:</b> FIRST DESTINATION TRANSPORTATION				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$7,979	\$9,202	\$9,767	\$10,338	\$11,017	\$11,054	\$11,309
<p><b>Description:</b></p> <p>First Destination Transportation (FDT) is the movement of property from the free-on-board (FOB) point of acquisition to the point at which the material is first received for use, storage, or distribution in the military supply system. When advantageous to the government, the contractual price includes the investment item transportation (FOB destination) and finances them as part of their unit cost. This P-1 line program provides for continental United States (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. FY03 funding will provide for shipment of items procured FOB 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 the associated procurement programs.</p>								
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**SPARES & REPAIR PARTS**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEAR 2003

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SPARES AND REPAIR PARTS

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/SPARES & REPAIR PARTS				<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS				
		<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>
<b>QUANTITY</b>								
<b>COST</b> (in Thousands)		\$36,757	\$32,891	\$41,358	\$40,763	\$46,131	\$26,840	\$23,232
<p><b>Description:</b></p> <p>Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stockage (including readiness spares package requirements) in support of newly fielded vehicles, communications-electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules and other related information. Initial spares are procured using 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 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 consist of components, assemblies, and subassemblies required for follow-on support of end items. Replenishment spares funded in this P-1 line are items which are non-stock listed and not managed through the SBSS, including those in support of intelligence and communications security programs and contractor logistics support (CLS) items. These spares are exempt from the AFWCF and are budgeted in the year of the requirement.</p> <p>FY 03 funding will procure initial and replenishment spares noted on attached P-40A.</p>								
		<b>P-1 ITEM NO</b> 99			<b>PAGE NO:</b> 1			



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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002		
<b>APPROP CODE/BA:</b> OPAF/SPARES & REPAIR PARTS				<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
INITIAL SPARES					\${35,394}		\${32,720}		\${41,184}
ITEMS LESS \$5M, FIRE FIGHTING EQUIPMENT ( P-1 LINE NO. 20)	A								\$130
AIR CARGO MATERIEL HANDLING (P-1 LINES 24 & 25)	A					\$4,274			\$9,487
COMSEC EQUIPMENT (P-1 LINE NO. 32)	A				\$682		\$755		\$747
INTEL COMMUNICATIONS EQUIPMENT (P-1 LINE NO. 36)	A				\$339		\$427		\$424
NATIONAL AIRSPACE SYSTEM (P-1 LINE NO. 38)	A				\$4,907		\$5,219		\$3,910
THEATER AIR CONTROL SYSTEM IMPROVEMENTS (P-1 LINE NO. 39)	A				\$1,741		\$1,861		\$1,174
WEATHER OBSERVATION/FORECAST (P-1 LINE NO. 40)	A				\$2,723		\$1,947		\$1,162
		<b>P-1 ITEM NO</b> 99		<b>PAGE NO:</b> 2				Page 1 of 4	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
STRATEGIC COMMAND AND CONTROL (P-1 LINE NO. 41)	A						\$586		\$583	
CHEYENNE MOUNTAIN COMPLEX (P-1 LINE NO. 42)	A				\$921		\$679		\$664	
TAC SIGINT SUPPORT (P-1 LINE NO. 43)	A						\$62		\$57	
MOBILITY COMMAND AND CONTROL (P-1 LINE NO. 47)	A				\$21		\$21		\$21	
COMBAT TRAINING RANGES (P-1 LINE NO. 49)	A				\$2,731		\$785		\$781	
THEATER BATTLE MANAGEMENT C2 SYSTEMS (P-1 LINE NO. 53)	A				\$1,969		\$1,906		\$1,862	
NAVSTAR GPS (SPACE) ( P-1 LINE NO. 57)	A				\$536		\$469		\$170	
AF SATELLITE CONTROL NETWORK (P-1 LINE NO. 59)	A				\$1,444		\$1,523		\$2,045	
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
APPROP CODE/BA: OPAF/SPARES & REPAIR PARTS				P-1 NOMENCLATURE: SPARES AND REPAIR PARTS						
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
SPACELIFT RANGE SYSTEM (SPACE) (P-1 LINE NO. 60)	A				\$2,185		\$2,300		\$2,016	
MILSATCOM (SPACE) (P-1 LINE NO. 61)	A				\$5,428		\$4,873		\$4,294	
SPACE MODS (SPACE) (P-1 LINE NO. 62)	A				\$600		\$27		\$9,779	
TACTICAL CE EQUIPMENT (P-1 LINE NO. 63)	A				\$6,441		\$3,444		\$96	
TV EQUIPMENT (AFRTV) (P-1 LINE NO. 66)	A				\$243		\$247		\$248	
COMM ELECTRONICS MODS (P-1 LINE NO. 71)	A				\$971		\$655		\$804	
ITEMS LESS THAN \$5M ELECTRICAL EQUIPMENT ( P-1 LINE NO. 77)	A				\$356		\$366		\$208	
AIR BASE OPERABILITY (P-1 LINE NO. 84)	A				\$1,150		\$294		\$522	
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2002			
<b>APPROP CODE/BA:</b> OPAF/SPARES & REPAIR PARTS					<b>P-1 NOMENCLATURE:</b> SPARES AND REPAIR PARTS					
PROCUREMENT ITEMS	ID CODE			FY2001		FY2002		FY2003		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
WEAPONS STORAGE & SECURITY SYSTEM (P-1 LINE NO. NONE)	A				\$6					
REPLENISHMENT SPARES					\${1,363}		\${171}		\${174}	
COMSEC EQUIPMENT (P-1 LINE NO. 32)	A				\$497		\$81		\$82	
TAC SIGINT SUPPORT (P-1 LINE NO. 43)	A				\$574		\$47		\$51	
AIR FORCE PHYSICAL SECURITY SYSTEM (P-1 LINE NO. 48)	A				\$248					
WEAPONS STORAGE & SECURITY SYSTEM (P-1 LINE NO. NONE)	A				\$44		\$43		\$41	
<b>Totals:</b>					\$36,757		\$32,891		\$41,358	
<b>Remarks:</b>										
			<b>P-1 ITEM NO</b> 99				<b>PAGE NO:</b> 5			

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