DEPARTMENT OF THE AIR FORCE

COMMITTEE STAFF PROCUREMENT BACKUP BOOK
FY 1998/1999 BUDGET ESTIMATES
FEBRUARY 1997

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OTHER PROCUREMENT, AIR FORCE

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COMBAT SUPPORT DIVISION
(AF/ILSR)

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT BUDGET ESTIMATES
FOR FISCAL YEARS 1998-1999

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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
Communications and Electronics
Other Base Maintenance and Support Equipment
Spares and Repair Parts

IDENTIFICATION CODES

Code "A" - Line items of material which have been approved for Air Force service use; i. e., line items which have been classified as standard or alternate.

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

GLOSSARY

Contract Method

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

NOTE; In the event a contract is multi-year, "M" will be added to the above code with a number to indicate the number of years (e. g., SSM-2).

Contract Type

C/FP - Competitive/Fixed Price
C/FPIS - Competitive Fixed Price Incentive with Successive Targets
CM-5 - Competitive Multi-year - 5 years
CPAF - Cost Plus Award Fee
CPFF - Cost Plus Fixed Fee
CPIF - Cost Plus Incentive Fee
FFP - Firm Fixed Price
FP - Fixed Price
FPAF - Fixed Price Award Fee
FPE - Fixed Price with Escalation
ID/IQ - Indefinite Delivery/Indefinite Quantity

Contracted By

11 SptWG - 11th Support Wing, Washington, DC
ACC - Air Combat Command, Langley AFB, VA
AEDC - Arnold Engineering Development Center, Arnold AFB, TN
AETC - Air Education and Training Command, Randolph AFB, TX
AFCA - Air Force Communications Command, Scott AFB, IL
AFCESA - Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC - Air Force Flight Test Center, Edwards AFB, CA
AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH
AFMC/ESC-38ELW/CSPO - AF Materiel Cmd/Elec Sys Ctr - 38 Engineering & Installation Wing/Comm Sys Pgm Office, Tinker AFB, OK
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
AWS - Air Weather Service, Scott AFB, IL
ER - Eastern Range, Patrick AFB, FL
ESC - Electronic Systems Center, Hanscom AFB, MA
HSC - Human Services Center, Brooks AFB, TX
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK
OO-ALC - Ogden Air Logistics Center, Hill AFB, UT
SA-ALC - San Antonio Air Logistics Center, Kelly AFB, TX
SM-ALC - Sacramento Air Logistics Center, McClellan AFB, CA
SMC - Space & Missile Systems Center, Los Angeles AFB, CA
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, Petersen AFB, CO
HQANG - Headquarters, Air National Guard, Washington, DC
USAFE - United States Air Force, Europe, Ramstein AFB, GE
USAFA - United States Air Force Academy, Colorado Springs, CO
SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL

Bases/Organizations

11 SptW - 11th Support Wing
ACC - Air Combat Command
AETC - Air Education & Training Command
AFC4A - Air Force Command, Control, Communications & Computer Agency

AFCAO - Air Force Computer Acquisition Office
AFCESA - Air Force Civil Engineering Support Agency
AFCSC - Air Force Cryptologic Service Center
AFESC - Air Force Engineering Services Center
AFGWC - Air Force Global Weather Center
AFIT - Air Force Institute of Technology
AFMC - Air Force Materiel Command
AFNEWS - Air Force Information & News Service Center
AFOSI - Air Force Office of Special Investigation
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
DLA - Defense Logistics Agency
DOE - Department of Energy
DSCC - Defense Supply Center, Columbus
ER - Eastern Range
ESC - Electronics Systems Center
ESMC - Eastern Space & Missile Center
FAA - Federal Aviation Agency
FBI - Federal Bureau of Investigation
GSA - General Services Administration
JCS - Joint Chief of Staff
JSC - Johnson Space Center
NATO - North Atlantic Treaty Organization
NBS - National Bureau of Standards
PACAF - Pacific Air Forces
USAF - United States Air Force
USAFA - United States Air Force Academy
USAFE - United States Air Forces, Europe
USCENTCOM - United States Central Command
USEUCOM - United States European Command
USMC - United States Marine Corps

USSTRATCOM - United States Strategic Command
WPAFB, Wright-Patterson AFB, OH
WR - Western Range
WSMC - Western Space and Missile Center

APPROPRIATION LANGUAGE

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed 1 vehicle required for physical security of personnel, notwithstanding price limitation applicable to passenger vehicles but not to exceed $232,340 per vehicle; the purchase of not to exceed 196 passenger motor vehicles of which all shall be for replacement only; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; $6,561,253,000 to remain available for obligation until September 30, 2000.

DEPARTMENT OF THE AIR FORCE

FY 1998/1999 PROCUREMENT PROGRAM

SUMMARY
($ IN MILLIONS)

FEB 1997

APPROPRIATION: OTHER PROCUREMENT, AIR FORCE

ACTIVITY	FY 1996	FY 1997	FY 1998	FY 1999
02. VEHICULAR EQUIPMENT	135.9	99.4	180.6	230.6
03. ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT	739.5	843.1	835.6	881.6
04. OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	5,580.1	5,046.5	5,489.3	5,591.7
05. SPARE AND REPAIR PARTS	57.7	37.0	55.8	51.0
TOTAL	6,513.1	6,026.0	6,561.3	6,754.9

* ITEMS UNDER $50,000

DEPARTMENT OF THE AIR FORCE
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1998 UNIT COST	MILLIONS OF DOLLARS								S E C -
				FY 1996		FY 1997		FY 1998		FY 1999		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
	BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT											
	PASSENGER CARRYING VEHICLES											
1	SEDAN, 4 DR 4X2	A	17,272	141	1.8	153	2.3	88	1.5	122	1.9	U
2	STATION WAGON, 4X2	A	17,142	69	1.0	57	.9	7	.1	54	1.0	U
3	BUSES	A	54,647	44	2.2	91	4.8	17	.9	57	3.1	U
4	AMBULANCES	A	82,333			3	.2	3	.2	3	.3	U
5	LAW ENFORCEMENT VEHICLE	A	20,037	85	1.4	199	3.3	80	1.6	137	2.9	U
6	ARMORED SEDAN	A	232,000	1	.2	1	.2	1	.2	1	.2	U
	CARGO + UTILITY VEHICLES											
7	TRUCK, CARGO-UTILITY, 3/4T, 4X4	A	28,662	111	2.8	317	8.3	154	4.4	91	2.7	U
8	TRUCK, CARGO-UTILITY, 1/2T, 4X2	A	24,292			257	5.7	106	2.6	237	5.9	U
9	TRUCK, PICKUP, 1/2T, 4X2	A	13,719	187	2.6	572	7.7	292	4.0	326	4.6	U
10	TRUCK, PICKUP, COMPACT	A	13,014	433	4.9	556	6.5	206	2.7	165	2.3	U
11	TRUCK MULTI-STOP 1 TON 4X2	A	27,305	164	3.7	419	11.1	301	8.2	378	10.6	U
12	TRUCK CARRYALL	A	23,653			145	2.8	150	3.5	186	4.3	U
13	COMMERCIAL UTILITY CARGO VEHICLE	A	33,744					43	1.5	109	3.7	U
14	TRUCK, CARGO, M-35, SLEP	A		50	2.7							U

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FY 1998/1999 PROCUREMENT PROGRAM

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1998 UNIT COST	MILLIONS OF DOLLARS -----FY 1996---- QUANTITY	COST	-----FY 1997---- QUANTITY	COST	-----FY 1998---- QUANTITY	COST	-----FY 1999--- QUANTITY	COST	SEC
15	MEDIUM TACTICAL VEHICLE	A	123,523	56	5.9			21	2.6			U
16	HIGH MOBILITY VEHICLE (MYP)	A	51,650					100	5.2			U
17	TRUCK TRACTOR, OVER 5T	A	70,962	58	3.7	38	2.7	27	1.9	35	2.5	U
18	CAP VEHICLES	A			.8		.8		.7		.7	U
19	ITEMS LESS THAN $2,000,000	A			11.4		13.2		5.0		11.4	U
	SPECIAL PURPOSE VEHICLES											
20	TRUCK TANK FUEL R-11	A		137	18.2							U
21	HMMWV, ARMORED	A	193,448	25	3.8	38	7.4	125	24.2	28	5.5	U
22	TRACTOR, TOW, FLIGHTLINE	A	30,943	152	4.2	108	3.1	124	3.8	306	9.7	U
23	ITEMS LESS THAN $2,000,000	A			6.5		4.9		6.7		10.2	U
	FIRE FIGHTING EQUIPMENT											
24	TRUCK CRASH P-19	A	292,571					7	2.0	5	1.5	U
25	TRUCK CRASH P-23	A								4	2.5	U
26	HEAVY RESCUE VEHICLE	A		15	3.1							U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1998 UNIT COST	MILLIONS OF DOLLARS FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	S E C
27	ITEMS LESS THAN $2,000,000	A			1.4				3.7		2.0	U
	MATERIALS HANDLING EQUIPMENT											
28	TRUCK, F/L 10,000 LB	A	67,615					26	1.8	71	5.1	U
29	60K A/C LOADER	A	1,385,716	34	42.3			60	83.1	60	93.4	U
30	NEXT GENERATION SMALL LOADER(NGSL)	A								22	30.0	U
31	ITEMS LESS THAN $2,000,000	A			1.5		2.5		2.1		5.0	U
	BASE MAINTENANCE SUPPORT											
32	TRUCK, DUMP 5CY	A	65,218					32	2.1	34	1.5	U
33	MODIFICATIONS	A			1.4		4.2		.2		.2	U
34	ITEMS LESS THAN $2,000,000	A			8.3		2.0		3.8		5.8	U
	CANCELLED ACCOUNT ADJUSTM											
35	CANCELLED ACCOUNT ADJUSTMENTS	A					4.8					U
TOTAL VEHICULAR EQUIPMENT					135.9		99.4		180.6		230.6	
BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT												
	COMM SECURITY EQUIPMENT(COMSEC)											
36	COMSEC EQUIPMENT	A			33.3		27.3		27.5		33.1	U

* ITEMS UNDER $50,000

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37	MODIFICATIONS (COMSEC)	A			.8		.5		.5		.5	U
	INTELLIGENCE PROGRAMS											
38	INTELLIGENCE DATA HANDLING SYS	A			17.0		14.0		20.7		18.1	U
39	INTELLIGENCE TRAINING EQUIPMENT	A			2.3		2.0		2.5		5.9	U
40	INTELLIGENCE COMM EQUIP	A			5.0		11.2		7.6		5.4	U
41	ITEMS LESS THAN $2,000,000	A			1.0							U
	ELECTRONICS PROGRAMS											
42	NATIONAL AIRSPACE SYSTEM	A							16.6		54.6	U
43	THEATER AIR CONTROL SYS IMPROVEMENT	A			24.3		21.5		38.3		36.8	U
44	WEATHER OBSERV/FORCAST	A			8.9		17.9		18.0		22.0	U
45	STRATEGIC COMMAND AND CONTROL	A			38.3		22.7		20.5		10.9	U
46	CHEYENNE MOUNTAIN COMPLEX	A			8.6		3.1		.7		.9	U
47	TAC SIGINT SUPPORT	A			5.8		5.8		4.1		4.7	U
48	DRUG INTERDICTION PROGRAM	A			3.5							U
	SPECIAL COMM-ELECTRONICS PROJECTS											
49	AUTOMATIC DATA PROCESSING EQUIP	A			30.9		31.2		36.1		32.4	U
50	AF GLOBAL COMMAND & CONTROL SYS	A			5.1		10.2		7.3		6.0	U

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DATE: FEB 1997

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51	MOBILITY COMMAND AND CONTROL	A			.9		7.0		6.7		5.5	U
52	AIR FORCE PHYSICAL SECURITY SYSTEM	A			15.1		14.3		15.1		18.1	U
53	COMBAT TRAINING RANGES	A			2.1		11.4		13.3		14.6	U
54	MINIMUM ESSENTIAL EMERGENCY COMM NET	A							3.5		10.1	U
55	FORCE PROTECTION/ANTI-TERRORISM	A			13.6		101.4		54.4		4.4	U
56	C3 COUNTERMEASURES	A			10.4		9.1		14.9		10.8	U
57	JOINT SURVEILLANCE SYSTEM	A									11.4	U
58	BASE LEVEL DATA AUTO PROGRAM	A			26.7		22.4		46.8		36.7	U
59	THEATER BATTLE MGT C2 SYS	A			51.5		47.9		49.0		45.9	U
	AIR FORCE COMMUNICATIONS											
60	INFORMATION TRANSMISSION SYSTEMS	A			16.9		12.2		10.9		11.1	U
61	BASE INFORMATION INFRASTRUCTURE	A			27.5		82.3		88.9		102.1	U
62	USCENTCOM	A			3.1		3.5		4.0		4.6	U
63	AUTOMATED TELECOMMUNICATIONS PRG	A			17.8		19.2		15.9		17.8	U
	DISA PROGRAMS											
64	DEFENSE SUPPORT PROGRAM SPACE	A			34.4							U
65	NAVSTAR GPS SPACE	A			5.0		3.3		3.1		4.1	U

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66	DEFENSE METEOROLOGICAL SAT PROG SPAC	A			14.0		10.5		11.9		11.0	U
67	NUDET DETECTION SYS (NDS) SPACE	A			5.6		2.1		8.0		1.3	U
68	AF SATELLITE CONTROL NETWORK SPACE	A			24.1		17.1		32.2		40.0	U
69	EASTERN/WESTERN RANGE I&M SPACE	A			110.4		101.7		82.0		100.9	U
70	MILSATCOM SPACE	A			47.7		52.0		20.4		27.9	U
71	SPACE MODS SPACE	A			31.5		23.4		18.9		6.0	U
	ORGANIZATION AND BASE											
72	TACTICAL C-E EQUIPMENT	A			29.1		64.0		17.0		31.9	U
73	COMBAT SURVIVOR/EVADER LOCATER RADIO	B					2.9		5.7		14.1	U
74	RADIO EQUIPMENT	A			12.0		10.5		12.8		15.5	U
75	TV EQUIPMENT (AFRTV)	A			2.5		2.4		2.1		2.0	U
76	CCTV/AUDIOVISUAL EQUIPMENT	A			5.8		4.0		4.0		3.3	U
77	BASE COMM INFRASTRUCTURE	A			31.6		27.4		30.9		28.6	U
78	CAP COM & ELECT	A							.4		.4	U

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DEPARTMENT OF THE AIR FORCE
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

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79	ITEMS LESS THAN $2,000,000	A			5.9		9.6		9.0		8.7	U
	MODIFICATIONS											
80	COMM ELECT MODS	A			9.7		14.2		53.3		61.3	U
	TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT				739.5		843.1		835.6		881.6	
	BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT											
	TEST EQUIPMENT											
81	BASE/ALC CALIBRATION PACKAGE	A			10.2		14.0		10.5		10.9	U
82	PRIMARY STANDARDS LABORATORY PACKAGE	A			1.4		1.6		1.7		1.6	U
83	ITEMS LESS THAN $2,000,000	A			11.0		12.2		9.6		8.4	U
	PERSONAL SAFETY AND RESCUE EQUIP											
84	NIGHT VISION GOGGLES	A			1.0		3.6		2.4		7.1	U
85	BREATHING APPARATUS TWO HOUR	A			3.8		2.0					U
86	UNIVERSAL WATER ACTIVATED REL SYS	B			7.5		1.0					U
87	ITEMS LESS THAN $2,000,000	A			4.7		5.8		3.5		3.1	U
	DEPOT PLANT + MATERIALS HANDLING EQ											
88	MECHANIZED MATERIAL HANDLING EQUIP	A			6.3		8.9		10.7		14.9	U

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FY 1998/1999 PROCUREMENT PROGRAM

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1998 UNIT COST	MILLIONS OF DOLLARS FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	SEC
89	ITEMS LESS THAN $2,000,000	A			4.0		5.7		4.0		2.0	U
	ELECTRICAL EQUIPMENT											
90	GENERATORS-MOBILE ELECTRIC	A			.2		.6		3.7		2.4	U
91	FLOODLIGHTS SET TYPE NF2D	A			*				7.7		10.7	U
92	ITEMS LESS THAN $2,000,000	A			.5		3.4		4.0		2.8	U
	BASE SUPPORT EQUIPMENT											
93	BASE PROCURED EQUIPMENT	A			4.7		6.0		6.9		5.8	U
94	MEDICAL/DENTAL EQUIPMENT	A			12.4		15.3		13.3		12.4	U
95	ENVIRONMENTAL PROJECTS	A					.9		1.0		1.0	U
96	AIR BASE OPERABILITY	B			2.9		4.9		4.2		12.1	U
97	PALLET AIR CARGO	A			3.3		8.6		1.2		3.5	U
98	NET ASSEMBLY, 108"X88"	A			1.9		1.9		3.0		1.9	U
99	BLADDERS FUEL	A			3.9		1.9		2.7		3.0	U
100	AERIAL BULK FUEL DELIVERY SYSTEM	A					2.1		2.1		4.3	U
101	PHOTOGRAPHIC EQUIPMENT	A			6.0		6.1		6.1		5.7	U
102	PRODUCTIVITY INVESTMENTS	A			17.3		10.0		6.0		9.0	U
103	MOBILITY EQUIPMENT	A			29.4		21.2		26.5		28.8	U

* ITEMS UNDER $50,000

DEPARTMENT OF THE AIR FORCE
FY 1998/1999 PROCUREMENT PROGRAM

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

EXHIBIT P-1

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1998 UNIT COST	MILLIONS OF DOLLARS FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	SEC
104	DEPLOYMENT/EMPLOYMENT CONTAINERS	A			3.3		1.9		2.0		2.2	U
105	SPATIAL DISORIENTATION DEMONSTRATOR	A					1.9					U
106	AIR CONDITIONERS	A					.8		9.6		10.7	U
107	ITEMS LESS THAN $2,000,000	A			10.2		5.0		9.7		14.6	U
	SPECIAL SUPPORT PROJECTS											
108	INTELLIGENCE PRODUCTION ACTIVITY	A			68.2		64.3		60.6		64.8	U
109	TECH SURV COUNTERMEASURES EQ	A			1.0		1.1		2.0		2.1	U
110	DARP	A			71.4		77.0					U
111	DARP RC135	A							12.8		13.0	U
112	DARP, MRIGS	A							66.3		81.8	U
113	SELECTED ACTIVITIES	A			5130.1		4566.7		5004.0		5052.9	U
114	SPECIAL UPDATE PROGRAM	A			150.3		175.2		174.8		181.9	U
115	INDUSTRIAL PREPAREDNESS	A			1.1		1.4		1.2		1.2	U
116	MODIFICATIONS	A			.1		.2		.2		.2	U
117	FIRST DESTINATION TRANSPORTATION	A			11.9		13.5		15.4		14.9	U
TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					5,580.1		5,046.5		5,489.3		5,591.7	

* ITEMS UNDER $50,000

VEHICULAR EQUIPMENT

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1998-1999

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VEHICULAR EQUIPMENT

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1998-1999

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE SEDAN, 4 DR 4X2				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	141	153	88	122	262	163	33	0
COST (In Mil)	$1.832	$2.304	$1.520	$1.898	$4.322	$2.501	$0.481	0

1. This vehicle utilizes a four or six cylinder, cost effective gasoline or compressed natural gas engine. It is used to transport personnel in performance of official duties. The total Air Force FY98 procurement requirement is 1,357 against an inventory objective of 2,269.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	50	634,038	4	47,760
FY97	28	319,004	0	0
FY98	0	0	0	0
FY99	42	572,586	9	122,697

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	SEDAN, 4 DR 4X2	MULTIPLE - SEE P5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
COMPACT US (BPAC 1012)	A	111	11940	1325	88	13058	1149	18	13339	240	75	13633	1022
MIDSIZE US (BPAC 1013)	A	2	14395	29									
COMPACT JAPAN (BPAC 1014)	A	4	11500	46	4	12200	49	4	12615	50	1	12887	13
COMPACT OSI OVERSEAS (BPAC 101F)	A	3	17169	52	11	17546	193	19	17957	341	28	18375	515
COMPACT US BI-FUEL CNG (BPAC 101H)	A	21	18113	380	47	18210	856	47	18910	889	18	19327	348
SUB-COMPACT US (CHASE) (BPAC 101J)	A				3	18929	57						
TOTAL		141		1832	153		2304	88		1520	122		1898

	P-1 SHOP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	1	2	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: SEDAN, 4 DOOR 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMPACT US (BPAC 1012)										
FY96	GSA (GMC) WILMINGTON, DE	OPTION	AFMC/WR-ALC	MAR 96	JUN 96	71	11,469			
FY96	GSA (CHRYSLER) CHICAGO, IL	OPTION	AFMC/WR-ALC	APR 96	JUL 96	40	12,777			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	88	13058	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	JUN 98	18	13,339	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 99	JUN 99	75	13,633	YES	NO	
MIDSIZE US (BPAC 1013)										
FY96	GSA (CHEVROLET) OSHAWA, ONTARIO	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	2	14,395			

D. REMARKS

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: SEDAN, 4 DOOR 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMPACT JAPAN (BPAC 1014)										
FY96	NAVY (MITSUBISHI) JAPAN	MIPR	AFMC/WR-ALC	AUG 96	JAN 97	4	11,500			
FY97	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	SEP 97	4	12,200	YES	NO	
FY98	NAVY (UNKNOWN)	MIPR	AFMC/WR-ACL	APR 98	SEP 98	4	12,615	YES	NO	
FY99	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	SEP 99	1	12,887	YES	NO	
COMPACT OSI OVERSEAS (BPAC 101F)										
FY96	OSI (VW) GERMANY	FCA/FRG	AFMC/WR-ALC	AUG 96	JAN 97	3	17,169			
FY97	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 97	JAN 98	11	17,546	YES	NO	
FY98	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 98	JAN 99	19	17,957	YES	NO	
FY99	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 99	JAN 00	28	18,375	YES	NO	

D. REMARKS

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: SEDAN, 4 DOOR 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMPACT US BI-FUEL CNG (BPAC 101H)										
FY96	GSA (FORD) KANSAS CITY, MO	MIPR	AFMC/WR-ALC	APR 96	OCT 96	21	18,113			
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	OCT 97	47	18,210	YES	NO	
FY98	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	OCT 98	47	18,910	YES	NO	
FY99	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	OCT 99	18	19,327	YES	NO	
SUB-COMPACT US (CHASE) (BPAC 101J)										
FY97	GSA (GMC) LANSING, MI	OPTION	AFMC/WR-ALC	JAN 97	MAY 97	3	18,929			

D. REMARKS

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE STATION WAGON, 4X2				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	69	57	7	54	114	139	81	3
COST (In Mil)	$1.046	$0.884	$0.120	$1.004	$1.921	$2.357	$1.388	$0.053

1. This is a commercial, compact size vehicle equipped with a fuel efficient gasoline engine. It is used for transportation of personnel and light cargo. It also provides quick response transportation for alert force personnel supporting missile/aircraft launch. The total Air Force FY98 procurement requirement is 630 against an inventory objective of 959.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	9	136,476	0	0
FY97	22	341,154	0	0
FY98	0	0	0	0
FY99	24	385,032	14	302,652

	P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 6	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	STATION WAGON, 4X2	MULTIPLE - SEE P5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
COMPACT 4x2 US (BPAC 1111)	A	69	15164	1046	57	15507	884	5	15698	78	29	16043	465
COMPACT 4X2 JAPAN (BPAC 1112)	A										2	20823	42
COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)	A							2	21152	42	23	21618	497
TOTALS		69		1046	57		884	7		120	54		1004

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	2	7	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: STATION WAGON, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMPACT 4x2 US (BPAC 1111)										
FY96	GSA (GMC) LANSING, MI	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	64	15,036			
FY96	GSA (FORD) DETROIT, MI	OPTION	AFMC/WR-ALC	DEC 96	MAR 97	5	16,800			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	57	15,507	YES	NO	
FY 98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	MAY 98	5	15,698	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	MAY 99	29	16,043	YES	NO	
COMPACT 4x2 JAPAN (BPAC 1112)										
FY95	PACAF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	JUL 95	DEC 95	3	19,084			
FY99	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	JUL 99	DEC 99	2	20,823	YES	NO	

D. REMARKS

* FIRST BUY OF BI-FUEL CNG STATION WAGON.

NOTE: FCA = FUND CITE AUTHORIZATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: STATION WAGON, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)										
FY98*	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	OCT 98	2	21,152	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	OCT 99	23	21,618	YES	NO	

D. REMARKS

* FIRST BUY OF BI-FUEL CNG STATION WAGON.

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE BUSES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	44	91	17	57	272	595	357	31
COST (In Mil)	$2.249	$4.813	$0.929	$3.100	$15.784	$35.508	$21.475	$2.054

1. These commercial buses are bought in a variety of sizes, ranging from 14 passenger to 52 passenger capacity. They equip our bases with a fuel efficient diesel vehicle for base shuttle bus operations and for transporting large aircraft crews together with their related flight gear. Buses are also used to transport dependent school children and large groups of personnel during military exercises. In USAFE and PACAF, buses are procured with kits which can convert the regular bus to an ambulance bus, negating the requirement for a separate bus for MED EVAC operations. The total Air Force FY98 procurement requirement is 1,175 against an inventory objective of 2,228.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	3	161,265	4	209.856
FY97	17	966,529	0	0
FY98	0	0	2	112,240
FY99	21	1,186,583	1	57,357

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BUSES	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - SEE P-5A.	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
16 PASSENGER (BPAC 1243)	A	7	36,399	255	9	37140	334	1	37939	38	5	38775	194
16 PASSENGER JAPAN (BPAC 1244)	A							2	43159	86	2	44110	88
23 PASSENGER (BPAC 1245)	A	1	41124	41				1	41931	42			
28 PASSENGER TRANSIT (BPAC 124A)	A	15	52464	787	34	53618	1823	5	54772	274	36	55979	2015
44 PASSENGER INTRACITY (BPAC 124K)	A	2	72573	145	1	73887	74	2	75766	152			
44 PASSENGER TRANSIT (BPAC 124L)	A	19	53755	1021	47	54938	2582	6	56120	337	14	57357	803
TOTALS		44		2249	91		4813	17		929	57		3100

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BUSES

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
16 PASSENGER (BPAC 1243)										
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	7	36,399			
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 97	JUL97	9	37,140	YES	NO	
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 98	JUL 98	1	37,939	YES	NO	
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 99	JUL 99	5	38,775	YES	NO	
16 PASSENGER JAPAN (BPAC 1244)										
FY98 *	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	APR 98	OCT 98	2	43,159	YES	NO	
FY99	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	APR 99	OCT 99	2	44,110	YES	NO	

D. REMARKS

* FIRST TIME BUY IN JAPAN.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE BUSES						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
23 PASSENGER (BPAC 1245)										
FY96	GSA (ELDORADO) SALINA, KS	ID/IQ	AFMC/WR-ALC	JUN 96	OCT 96	1	41,124			
FY98	GSA (ELDORADO) SALINAS, KS	ID/IQ	AFMC/WR-ALC	JUN 98	OCT 98	1	41,931	YES	NO	
28 PASSENGER TRANSIT (BPAC 124A)										
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	15	52,464			
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 97	JUL 97	34	53,618	YES	NO	
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 98	JUL 98	5	54,772	YES	NO	
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 99	JUL 99	36	55,979	YES	NO	

D. REMARKS

* FIRST TIME BUY IN JAPAN.

	P-1 SHOPP LIST ITEM NO. 3	PAGE NO. 13	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BUSES

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
44 PASSENGER INTRACITY (BPAC 124K)										
FY96	GSA (THOMAS BUILT) HIGH POINT, NC	ID/IQ	AFMC/WR-ALC	MAY 96	SEP 96	2	72,573			
FY97	GSA (THOMAS BUILT) HIGH POINT, NC	ID/IQ	AFMC/WR-ALC	MAY 97	SEP 97	1	73,887	YES	NO	
FY98	GSA (THOMAS BUILT) HIGH POINT, NC	ID/IQ	AFMC/WR-ALC	MAY 98	SEP 98	2	75,766	YES	NO	
44 PASSENGER TRANSIT (BPAC 124L)										
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	19	53,755			
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 97	JUL 97	47	54,938	YES	NO	
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 98	JUL 98	6	56,120	YES	NO	
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 99	JUL 99	14	57,357	YES	NO	

D. REMARKS

* FIRST TIME BUY IN JAPAN.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE AMBULANCES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	3	3	3	15	34	59	5
COST (In Mil)	0	$0.238	$0.247	$0.252	$1.130	$2.550	$4.599	$0.340

1. This line item includes both bus ambulances and modular ambulances. Bus ambulances are used in Medical Evacuation (MED EVAC) operations and are capable of transporting 12 litter patients from aircraft to hospitals. Modular ambulances are standard commercial ambulances in both two and four wheel drive configurations. They also perform MED EVAC as well as movement of patients under field conditions, aircraft crash rescue operations, and both emergency and routine transportation of patients to and from medical facilities and hospitals. Modular ambulances have eight cylinder diesel engines, automatic transmissions, power steering and brakes, and medical life support systems. Capacity is three litter patients or eight seated patients. The total Air Force FY98 procurement requirement is 816 against an inventory objective of 1297.

2. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	4	15	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AMBULANCES

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
BUS AMBULANCE (BPAC 1359)										
FY95	GSA (WHEELED COACH) WINTER PARK, FL	ID/IQ	AFMC/WR-ALC	FEB 95	MAY 95	1	76,957			
FY97	GSA (WHEELED COACH) WINTER PARK, FL	ID/IQ	AFMC/WR-ALC	FEB 97	MAY 97	3	79,483	YES	NO	
FY98	GSA (UNKNOWN)	ID/IQ	AFMC/WR-ALC	FEB 98	MAY 98	3	82,190	YES	NO	
FY99	GSA (UNKNOWN)	ID/IQ	AFMC/WR-ALC	FEB 99	MAY 99	3	83,960	YES	NO	

D. REMARKS

P-1 SHOPP LIST ITEM NO. 4

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE LAW ENFORCEMENT VEHICLE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	85	199	80	137	23	17	19	0
COST (In Mil)	$1.409	$3.291	$1.603	$2.871	$0.457	$0.312	$0.357	0

1. This is a commercial, gasoline engine powered sedan equipped with a heavy duty component package for law enforcement. It is used in security and law enforcement functions. This is a high mileage vehicle with a three year life expectancy. The total Air Force FY98 procurement requirement is 512 against an inventory objective of 799.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	7	115,248
FY97	0	0	15	247,680
FY98	0	0	0	0
FY99	0	0	5	117,875

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME LAW ENFORCEMENT VEHICLE	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - SEE P5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 1601)	A	80	16494	1320	198	16512	3269	41	17220	706	60	17599	1056
JAPAN (BPAC 1602)	A				1	21523	22	4	22492	90			
ITALY (BPAC 1605)	A	3	18885	57									
TURKEY (BPAC 1606)	A	2	16150	32									
US BI-FUEL CNG (BPAC 1607)	A							35	23067	807	77	23575	1815
TOTALS		85		1409	199		3291	80		1603	137		2871

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	5	18	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: LAW ENFORCEMENT VEHICLE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US (BPAC 1601)										
FY96	GSA (CHEVROLET) WARREN, MI	MIPR	AFMC/WR-ALC	FEB 96	JUN 96	78	16,494			
FY96	GSA (GMC) WARREN, MI	MIPR	AFMC/WR-ALC	DEC 96	JAN 97	2	16,494			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	198	16,512	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	41	17,220	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	60	17,599	YES	NO	
JAPAN (BPAC 1602)										
FY95	5AF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	SEP 95	APR 96	2	21,060			
FY97	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	NOV 97	1	21,523	YES	NO	
FY98	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	NOV 98	4	22,492	YES	NO	

D. REMARKS

* FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: LAW ENFORCEMENT VEHICLE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ITALY (BPAC 1605)										
FY96	16AF (FIAT) ITALY	FCA/ITALY	AFMC/WR-ALC	AUG 96	DEC 96	3	18,885			
TURKEY (BPAC 1606)										
FY96	16AF (SEHOGLU) TURKEY	FCA/TURKEY	AFMC/WR-ALC	JUL 96	JAN 97	2	16,150			
US BI-FUEL CNG (BPAC 1607)										
FY98*	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	AUG 98	35	23,067	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	AUG 99	77	23,575	YES	NO	

D. REMARKS

* FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ARMORED SEDAN				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	1	1	1	1	1	1	1	1
COST (In Mil)	$0.219	$0.227	$0.232	$0.239	$0.246	$0.255	$0.262	$0.269

1. The Air Force Office of Special Investigations (AFOSI), has responsibility for non-tactical Fully Armored Vehicles (FAVs). The FAVs are used during protective service operations to transport permanent party, visiting senior US military and civilian personnel within designated high terrorist threat areas (i.e., in-theater USAF and NATO command officials, the Secretary of Defense, Secretary of the Air Force, Chief of Staff of the Air Force, and as augment support of the President of the United States).

2. Terrorist threats are investigated and validated by US/foreign, federal and military (e.g., CIA and DoD) counter-intelligence anti-terrorism experts. Threat assessments and vulnerability surveys are prepared to determine FAV requirements.

3. Seven of the FAVs on hand have exceeded their life expectancy of eight years or 72,000 miles. Factory reconditioning of such things as engines, drive trains, and major components by Mercedes-Benz, has extended vehicle life by 4 - 5 years. However, the protective integrity of both the polycarbonate transparent and metal armor cannot be guaranteed by the manufacturer for an additional reconditioning. Therefore, it is neither economically feasible nor safe to upgrade pre-1987 FAVs a second time.

4. Currently, 8 of AFOSI's 13 FAVs (1987 or newer) meet current DoD FAV ballistic standards. New technology introduced during the last 5 years has significantly increased ballistic defeat capability and overall safety of vehicle occupants through use of enhanced armoring materials/ techniques (e.g., polycarbonate transparent armor and production/assembly). Additional improvements have been made on anti-lock braking systems, driver/passenger restraint devices, and side impact devices.

5. FY98 funding continues the USAF FAV replacement program. A replacement buy is essential to ensure all principals are provided optimum protection against terrorist activities. The total Air Force FY98 procurement requirement is 1 against an inventory objective of 10.

6. Unit Cost: $232,340.

7. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	6	21	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: ARMORED SEDAN

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
Armored Sedan FRG (BPAC 1702)										
FY96	OSI (MERCEDES-BENZ, GERMANY)	FCA/FRG	AFMC/WR-ALC	AUG 96	APR 97	1	218,504			
FY97	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JUN 97	FEB 98	1	227,339	YES	NO	
FY98	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JAN 98	SEP 98	1	232,340	YES	NO	
FY99	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JAN 99	SEP 99	1	239,310	YES	NO	

D. REMARKS

NOTE: FCA = Fund Cite Authorization.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
6	22	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 3/4T, 4X4				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	111	317	154	91	128	146	164	444
COST (In Mil)	$2.821	$8.267	$4.414	$2.700	$3.845	$4.208	$4.822	$13.347

1. This is a commercial four-door, six-passenger cargo truck which equips our forces with a four-wheel-drive, automatic transmission vehicle to permit crews and cargo to travel together to off-highway sites. This truck is used by security police in a force protection role. It is also used in direct operational support of strategic weapons systems (silo crew changes), and fighter and bomber aircraft crews. Four-wheel-drive capability is critical to off-highway winter operations to isolated missile, communications, weather, and radar sites. It is also used by civil engineering crews in support of these locations; the six passenger capacity permits the use of one vehicle instead of two for trips to sites that are up to 150 miles from a base. The total Air Force FY98 procurement requirement is 2,077 against an inventory objective of 3,952.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	46	1,180,820	6	154,020
FY97	157	3,320,707	19	401,869
FY98	60	1,617,300	8	215,640
FY99	21	578,256	2	55,072

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK, CARGO-UTILITY, 3/4T, 4X4	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - See P-5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 2061)	A	108	25634	2768	311	26234	8159	106	26955	2857	49	27536	1349
JAPAN (BPAC 2062)	A	3	17670	53	6	18059	108	4	18466	74	6	18863	113
US BI-FUEL CNG (BPAC 2064)	A							44	33696	1483	35	34438	1205
US LIQUID PROPANE GAS (BPAC 2065)	A										1	32668	33
TOTALS		111		2821	317		8267	154		4414	91		2700

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	7	24	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, CARGO-UTILITY, 3/4T, 4X4

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US (BPAC 2061)										
FY96	GSA (CARTER CHEVY) FLINT, MI	MIPR	AFMC/WR-ALC	SEP 96	APR 97	108	25,634			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	311	26,234	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	106	26,955	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	49	27,536	YES	NO	
JAPAN (BPAC 2062)										
FY96	PACAF (TOYOTA) JAPAN	MIPR/JAPAN	AFMC/WR-ALC	SEP 96	JAN 97	3	17,670			
FY97	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 97	NOV 97	6	18,059	YES	NO	
FY98	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 98	NOV 98	4	18,466	YES	NO	
FY99	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 99	NOV 99	6	18,863	YES	NO	

D. REMARKS

FIRST TIME BUY OF BI-FUEL CNG 3/4T 4X4 CARGO TRUCK.

@ FIRST TIME BUY OF LIQUID PROPANE 3/4T 4X4 CARGO TRUCK.

NOTE: FCA = Fund Cite Authorization.

P-1 SHOPP LIST ITEM NO. 7

PAGE NO. 25

Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, CARGO-UTILITY, 3/4T, 4X4

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US BI-FUEL CNG (BPAC 2064)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	44	33,696	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	35	34,438	YES	NO	
US LIQUID PROPANE (BPAC 2065)										
FY99 @	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	NOV 99	1	32,668	YES	NO	

D. REMARKS

FIRST TIME BUY OF BI-FUEL CNG 3/4T 4X4 CARGO TRUCK.

@ FIRST TIME BUY OF LIQUID PROPANE 3/4T 4X4 CARGO TRUCK.

NOTE: FCA = Fund Cite Authorization.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	257	106	237	181	116	380	145
COST (In Mil)	0	$5.724	$2.575	$5.888	$4.642	$2.984	$9.989	$3.897

1. This is a commercial two wheel drive cargo truck with four doors and two full width seats which provide for a crew of six passengers. This vehicle has a six foot pickup body with a tailgate and an automatic transmission. The Air Force uses this truck to transport personnel and light cargo. The six passenger feature enables the work crew and their material to travel together. It is used in direct support of weapons systems such as missiles, strategic aircraft, and tactical fighter aircraft. This vehicle is generally operated on a base where off-highway, four wheel drive capability is not required. The total Air Force FY98 procurement requirement is 1,704 against an inventory objective of 3,506.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	13	308,789	0	0
FY98	0	0	8	192,784
FY99	41	1,009,297	2	49,234

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK, CARGO-UTILITY, 1/2T, 4X2	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - See P-5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 2071)	A				174	23753	4133	90	24098	2169	202	24617	4973
FRG (BPAC 2072)	A				39	18525	722						
ITALY (BPAC 2073)	A				39	20429	797						
JAPAN (BPAC 2074)	A				2	15800	32	4	16286	65	8	16645	133
US BI-FUEL CNG (BPAC 2076)	A							12	28385	341	26	29011	754
KOREA (BPAC 2077)	A				3	13234	40						
US LIQUID PROPANE (BPAC 2078)	A										1	27945	28
TOTALS					257		5724	106		2575	237		5888

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, CARGO-UTILITY, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US (BPAC 2071)										
FY95	GSA (HENDRIX GMC) FLINT, MI	MIPR	AFMC/WR-ALC	SEP 95	JAN 96	16	22,564			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	174	23,753	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	90	24,098	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	202	24,617	YES	NO	
FRG (BPAC 2072)										
FY90	ARMY (VW) GERMANY	MIPR	AFMC/WR-ALC	APR 90	SEP 90	65	15,677			
FY97	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	SEP 97	39	18,525	YES	NO	

D. REMARKS

First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration.

@ First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	8	29	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, CARGO-UTILITY, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ITALY (BPAC 2073)										
FY89	17AF (FIAT) ITALY	C/FP	AFMC/WR-ALC	SEP 89	MAR 90	7	16,798			
FY97	17AF (UNKNOWN) ITALY	MIPR/ITALY	AFMC/WR-ALC	APR 97	0CT 97	39	20,429	YES	NO	
JAPAN (BPAC 2074)										
FY95	PACAF (TOYOTA) JAPAN	FCA/JPN	AFMC/WR-ALC	JUN 95	AUG 95	2	12,814			
FY97	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 97	JAN 98	2	15,800	YES	NO	
FY98	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 98	JAN 99	4	16,286	YES	NO	
FY99	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 99	JAN 00	8	16,645	YES	NO	

D. REMARKS

First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration.

@ First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, CARGO-UTILITY, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US BI-FUEL CNG (BPAC 2076)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	AUG 98	12	28,385	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	AUG 99	26	29,011	YES	NO	
KOREA (BPAC 2077)										
FY97 @	PACAF (UNKNOWN) KOREA	FCA/KOREA	AFMC/WR-ALC	JUL 97	SEP 97	3	13,234	YES	NO	
US LIQUID PROPANE (BPAC 2078)										
FY99 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	NOV 99	1	27,945	YES	NO	

D. REMARKS

First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration.

@ First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, PICKUP, 1/2T, 4X2					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	187	572	292	326	114	323	1175	64
COST (In Mil)	$2.575	$7.702	$4.006	$4.590	$1.877	$4.860	$18.051	$1.003

1. This is a standard 1/2 ton pickup truck with a six cylinder engine, two-wheel drive, and automatic transmission. It is the basic light cargo delivery and personnel transport vehicle in the Air Force inventory. This vehicle is used as an expedite/light cargo vehicle by Supply, Security Police, Hospital, and virtually every flight line unit. The total Air Force FY98 procurement requirement is 4,211 against an inventory objective of 5,975.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	81	1,116,942	1	13,352
FY97	173	2,359,547	0	0
FY98	185	2,600,545	0	0
FY99	59	847,240	10	205,470

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK, PICKUP, 1/2T, 4X2	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - See P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 2111)	A	124	13352	1656	513	13639	6997	259	14057	3641	271	14360	3892
FRG (BPAC 2112)	A	20	15991	320	25	16343	409						
ITALY (BPAC 2114)	A	21	8311	175	25	8494	212	26	8681	226	37	8868	328
KOREA (BPAC 2117)	A				9	9353	84						
US COMPRESSED NATURAL GAS BI FUEL (BPAC 2118)	A	22	19257	424				6	20104	121	18	20547	370
US LIQUID PROPANE (BPAC 211A)	A							1	17633	18			
TOTALS		187		2575	572		7702	292		4006	326		4590

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US (BPAC 2111)										
FY96	GSA (GRANDE FORD) AUSTIN, TX	MIPR	AFMC/WR-ALC	SEP 96	MAR 97	124	13352			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	AUG 97	513	13,639	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	AUG 98	259	14,057	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	AUG 99	271	14,360	YES	NO	
FRG (BPAC 2112)										
FY96	ARMY (VW) GERMANY	MIPR	AFMC/WR-ALC	JUN 96	SEP 96	20	15,991			
FY97	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 97	SEP 97	25	16,343	YES	NO	

D. REMARKS
@ FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF.
# FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.

P-1 SHOPP LIST ITEM NO. 9

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ITALY (BPAC 2114)										
FY96	AF (FIAT) ITALY	MIPR	AFMC/WR-ALC	AUG 96	FEB 97	21	8311			
FY97	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 97	FEB 98	25	8494	YES	NO	
FY98	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 98	FEB 99	26	8681	YES	NO	
FY99	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 99	FEB 00	37	8868	YES	NO	
KOREA (BPAC 2117)										
FY97 @	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 97	DEC 97	9	9,353	YES	NO	

D. REMARKS
@ FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF.
# FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US COMPRESSED NATURAL GAS BI-FUEL (BPAC 2118)										
FY96	GSA (FORD) WAYNE, MI	MIPR	AFMC/WR-ALC	APR 96	SEP 96	22	19,257			
FY98	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	SEP 98	6	20,104	YES	NO	
FY99	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	SEP 99	18	20,547	YES	NO	
US LIQUID PROPANE (BPAC 211A)										
FY98 #	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	SEP 98	1	17,633	YES	NO	

D. REMARKS

@ FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF.

FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, PICKUP, COMPACT					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	433	556	206	165	140	130	217	809
COST (In Mil)	$4.913	$6.461	$2.681	$2.345	$1.961	$1.650	$2.819	$10.739

1. This is a commercial, 4x2 compact pickup truck, used by virtually all base activities to transport light cargo and personnel. It is part of an Air Force program to selectively downsize to more fuel efficient vehicles without causing an adverse mission impact. The total Air Force FY98 procurement requirement is 3,184 against an inventory objective of 6,288.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	5	56,905	5	56,905
FY97	34	395,454	55	639,705
FY98	76	904,020	23	273,585
FY99	49	595,693	7	85,099

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	TRUCK, PICKUP, COMPACT	MULTIPLE - SEE P5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 2121)	A	414	11381	4712	547	11631	6362	140	11895	1665	79	12157	960
JAPAN (BPAC 2122)	A	19	10579	201	5	10812	54	10	11044	110	7	11288	79
US COMPRESSED NATURAL GAS (BPAC 2124)	A							56	16178	906	79	16534	1306
KOREA (BPAC 2125)	A				4	11250	45						
TOTALS		433		4913	556		6461	206		2681	165		2345

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	10	38	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, PICKUP, COMPACT

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4X2 US (BPAC 2121)										
FY96	GSA (CHRYSLER) WARREN, MI	OPTION	AFMC/WR-ALC	JAN 96	JUN 96	414	11,381			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUL 97	547	11,631	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUL 98	140	11,895	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUL 99	79	12,157	YES	NO	
4X2 JAPAN (BPAC 2122)										
FY96	NAVY (TOYOTA) JAPAN	MIPR	AFMC/WR-ALC	AUG 96	DEC 96	19	10,579			
FY97	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 97	DEC 97	5	10,812	YES	NO	
FY98	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 98	DEC 98	10	11,044	YES	NO	
FY99	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 99	DEC 99	7	11,288	YES	NO	

D. REMARKS
FIRST TIME BUY IN CNG CONFIGURATION.
@ FIRST TIME BUY IN KOREA. PRICE ESTIMATE IS BASED ON JAPAN PRICE FOR SAME ITEM.

NOTE: FCA = FUND CITE AUTHORIZATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, PICKUP, COMPACT

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US COMPRESSED NATURAL GAS (BPAC 2124)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUL 98	56	16,178	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUL 99	79	16,534	YES	NO	
KOREA (BPAC 2125)										
FY97 @	PACAF (UNKNOWN)	FCA/KOREA	AFMC/WR-ALC	JUN 97	SEP 97	4	11,250	YES	NO	

D. REMARKS
FIRST TIME BUY IN CNG CONFIGURATION.
@ FIRST TIME BUY IN KOREA. PRICE ESTIMATE IS BASED ON JAPAN PRICE FOR SAME ITEM.

NOTE: FCA = FUND CITE AUTHORIZATION.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, MULTI-STOP, 1T, 4X2					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	164	419	301	378	347	88	61	606
COST (In Mil)	$3.689	$11.104	$8.219	$10.559	$9.866	$2.565	$1.884	$18.356

1. This family group consists of commercial panel trucks with sliding front doors, double rear doors, and delivery vans with cut-off cabs and full width rear doors with windows. Both trucks are two wheel drive, automatic transmission, and are powered by a diesel engine. They are used for light cargo transport, mobile post offices, and air crew personnel transport. They are used extensively on the flightline to support aircraft maintenance and by civil engineers in base and airfield maintenance. The total Air Force FY98 procurement requirement is 4,968 against an inventory objective of 6,854.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	5	112,545
FY97	37	846,523	32	732,128
FY98	42	1,140,048	23	624,312
FY99	24	665,808	47	1,303,874

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK, MULTI-STOP, 1T, 4X2	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - SEE P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
MULTI-STOP 1T US (BPAC 2161)	A							1	32166	32	1	32859	33
DELIVERY VAN US (BPAC 2165)	A	161	22509	3624	412	26560	10943	290	27144	7872	362	27742	10043
DELIVERY VAN US BI-FUEL CNG2 (BPAC 2168)	A							10	31503	315	15	32181	483
DELIVERY VAN JAPAN (BPAC 216C)	A	3	21750	65	7	23000	161						
TOTALS		164		3689	419		11104	301		8219	378		10559

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	11	42	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, MULTI-STOP, 1T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
MULTI-STOP 1T US (BPAC 2161)										
FY95	GSA (CARTER CHEVY) OKARCHE, OK	MIPR	AFMC/WR-ALC	SEP 95	JUL 96	1	30,118			
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	DEC 98	1	32,166	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	DEC 99	1	32,859	YES	NO	
DELIVERY VAN US (BPAC 2165)										
FY95	GSA (CARTER) UNION CITY, IN	OPTION	AFMC/WR-ALC	FEB 95	SEP 95	435	21,689			
FY96	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	161	22,509	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	DEC 97	412	26,560	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	290	27,144	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	362	27,742	YES	NO	

D. REMARKS

● FIRST BUY OF CNG2 BI-FUEL DELIVERY VAN.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, MULTI-STOP, 1T, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
DELIVERY VAN US COMPRESSED NATURAL GAS 2 BI-FUEL (BPAC 216B)										
FY98 @	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	OCT 98	10	31,503	YES	NO	
FY99	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	OCT 99	15	32,181	YES	NO	
DELIVERY VAN JAPAN (BPAC 216C)										
FY96	NAVY (TOYOTA) JAPAN	MIPR	AFMC/WR-ALC	JUL 96	SEP 96	3	21,750			
FY97	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	JUL 97	SEP 97	7	23,000	YES	NO	

D. REMARKS

@ FIRST BUY OF CNG2 BI-FUEL DELIVERY VAN.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK CARRYALL				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	145	150	186	206	207	121	347
COST (In Mil)	0	$2.814	$3.548	$4.286	$4.962	$4.475	$2.984	$8.117

1. This vehicle family is defined as commercial carryalls, capable of carrying a minimum of seven passengers (including driver). It weighs between 4,700 and 8,600 pounds Gross Vehicle Weight, with a minimum of three windows on each side and double side and rear doors. The trucks are used by: Communications, Weather, and Radar Site personnel as a combination cargo and group personnel carrier; medical repair teams to transport test and repair equipment to hospitals and medical facilities; missile and aircraft alert crews; and in some instances as airport transportation for personnel and their baggage. The truck is primarily purchased with an automatic transmission. All-terrain four wheel drive vehicles are also bought for use at remote sites. The total Air Force FY98 procurement requirement is 1,828 against an inventory objective of 3,882.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	45	838,419	0	0
FY98	74	1,399,454	0	0
FY99	41	855,032	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	TRUCK CARRYALL	MULTIPLE - SEE P-5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US 9 PASSENGER 4X2 (BPAC 2191)	A				50	17208	860	6	17797	107	73	18180	1327
JPN 9 PASSENGER 4X2 (BPAC 2195)	A							2	20398	41	2	20847	42
US 9 PASSENGER 4X4 (BPAC 2196)	A				15	27070	406	29	27856	808	26	28470	740
US 9 PASSENGER 4X2 (BPAC 2198)	A				8	27818	223	2	28196	56			
US 15 PASSENGER 4X2 (BPAC 219A)	A				15	19701	296	9	20125	181	18	20569	370
US 15 PASSENGER 4X2 BI-FUEL (BPAC 219E)	A							1	24396	24	7	24934	175
US 7 PASS 4X2 (BPAC 219H)	A				52	17200	894	63	17671	1113	23	18060	415
US 15 PASSENGER 4X2 CNG (BPAC 219Q)	A				5	27093	135						
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)	A							6	24014	144	1	24543	25

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK CARRYALL	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - SEE P-5A.	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)	A							5	22800	114	8	23302	186
US LOW PROFILE 4X2 BI-FUEL (BPAC 219U)	A							14	34198	479	19	34952	664
US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V)	A							11	37181	409	9	38000	342
US 9 PASSENGER 4X4 LIQUID PROPANE (BPAC 219W)	A							2	35764	72			
TOTALS					145		2814	150		3548	186		4286

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 9 PASSENGER 4X2 (BPAC 2191)										
FY95	GSA (FORD) LORAIN, OH	OPTION	AFMC/WR-ALC	MAR 95	JUN 95	14	16,664			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	50	17,208	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	JUN 98	6	17,797	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 99	JUN 99	73	18,180	YES	NO	
JPN 9 PASSENGER 4X2 (BPAC 2195)										
FY93	PACAF (NISSAN) JAPAN	MIPR	AFMC/WR-ALC	DEC 93	FEB 94	10	14,333			
FY98	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	DEC 97	FEB 98	2	20,398	YES	NO	
FY99	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	DEC 98	FEB 99	2	20,847	YES	NO	

D. REMARKS
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 9 PASSENGER 4X4 (BPAC 2196)										
FY96 *	GSA (GMC) JANESVILLE, WI	OPTION	AFMC/WR-ALC	MAR 96	NOV 96	11	26,682			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	OCT 97	15	27,070	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	OCT 98	29	27,856	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	OCT 99	26	28,470	YES	NO	
US 9 PASSENGER 4X2 (BPAC 2198)										
FY96 *	GSA (CHEVROLET) JANESVILLE, WI	OPTION	AFMC/WR-ALC	MAR 96	NOV 96	4	27,008			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	NOV 97	8	27,818	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	NOV 98	2	28,196	YES	NO	

D. REMARKS
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 15 PASSENGER 4X2 (BPAC 219A)										
FY96	GSA (CHRYSLER) WINDSOR, ON, CD	OPTION	AFMC/WR-ALC	MAR 96	JUN 96	9	19,277			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	15	19,701	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	MAY 98	9	20,125	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	MAY 99	18	20,569	YES	NO	
US 15 PASSENGER 4X2 BI-FUEL (BPAC 219E)										
FY96	GSA (FORD) LORAIN, OH	OPTION	AFMC/WR-ALC	APR 96	SEP 96	4	23,268			
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	SEP 98	1	24,396	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	SEP 99	7	24,934	YES	NO	

D. REMARKS
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
\# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 7 PASSENGER 4X2 (BPAC 219H)										
FY96*	GSA (CHEVROLET) OKARCHE, OK	OPTION	AFMC/WR-ALC	FEB 96	JUN 96	4	16,926			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	52	17,200	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	63	17,671	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	23	18,060	YES	NO	
US 15 PASSENGER 4X2 CNG (BPAC 219Q)										
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	JUN 97	5	27,093	YES	NO	

D. REMARKS
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
\# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	6	24,014	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	1	24,543	YES	NO	
US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	5	22,800	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	8	23,302	YES	NO	
US LOW PROFILE 4X2 BI-FUEL (BPAC 219U)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	14	34,198	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	19	34,952	YES	NO	

D. REMARKS
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
\# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CARRYALL

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	11	37,181	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	9	38,000	YES	NO	
US 9 PASSENGER 4X4 LIQUID PROPANE (BPAC 82219W)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	2	35,764	YES	NO	

D. REMARKS
- FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE COMMERCIAL UTILITY CARGO VEHICLE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	43	109	66	86	66	249
COST (In Mil)	0	0	$1.451	$3.749	$2.319	$3.074	$2.431	$9.312

1. These are Commercial Utility Cargo Vehicles (CUCVs) which have some military design components, i.e., 24 volt electrical system and blackout lights. This makes it compatible with deployed US Army military designed vehicles. It shares the same power plant and transmission as the Humvee; therefore, it is suitable for Joint Service Contingencies in austere or semi-austere operating environments. This vehicle is used to transport both personnel and their equipment. The total Air Force FY98 procurement requirement is 2,106 against an inventory objective of 2,226.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	0	0	0	0
FY98	19	649,344	0	0
FY99	35	1,221,920	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	13	54	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME COMMERCIAL UTILITY CARGO VEHICLE	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION GMC, PONTIAC, MI	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
TRUCK, UTILITY, CUCV (BPAC 2201)	A							27	34176	923	62	34912	2165
TRUCK, CARGO, CUCV (BPAC 2202)	A							16	32997	528	47	33708	1584
TOTAL								43		1451	109		3749

	P-1 SHOP LIST ITEM NO. 13	PAGE NO. 55	Exhibit P-5 Weapon System Cost Analysis

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: COMMERCIAL UTILITY CARGO VEHICLE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK, UTILITY, CUCV (BPAC 2201)										
FY86	ARMY (GMC) PONTIAC, MI	MIPR	AFMC/WR-ALC	JUN 86	DEC 86	157	12,742			
FY98	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 98	SEP 98	27	34,176	YES	NO	
FY99	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 99	SEP 99	62	34,912	YES	NO	
TRUCK, CARGO, CUCV (BPAC 2202)										
FY86	ARMY (GMC) PONTIAC, MI	MIPR	AFMC/WR-ALC	JUN 86	OCT 86	88	13,229			
FY98	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 98	JUL 98	16	32,997	YES	NO	
FY99	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 99	JUL 99	47	33,708	YES	NO	

D. REMARKS

NOTE: BECAUSE IT HAS BEEN SO LONG SINCE THE LAST PROCUREMENT IN FY86, FY98 AND FY99 PRICE ESTIMATES ARE BASED ON CURRENT US ARMY/TACOM ESTIMATES.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
13	56	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE FAMILY OF MEDIUM TACTICAL VEHICLES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	56	0	21	0	0	33	40	60
COST (In Mil)	$5.900	0	$2.594	0	0	$4.518	$4.625	$9.414

1. The Family of Medium Tactical Vehicles (FMTV) is a complete series of trucks based on a common chassis and varied by payload and mission. The Light Medium Tactical Vehicle (LMTV) has a 2.5 ton capacity consisting of cargo and van models. The Medium Tactical Vehicle (MTV) has a 5 ton capacity, consisting of cargo, tractor, van, wrecker, tanker, and dump truck models. Commonality among variants significantly reduces operation and maintenance costs. FMTV, intended to replace obsolete and maintenance-intensive trucks currently in the fleet, provides all terrain vehicles for tactical and strategic deployments, tactical communications, tactical mobility, ammunition resupply, unit resupply, medical evacuation, and forces support.

2. The total Air Force FY98 procurement requirement is 1,022 against an inventory objective of 1,467.

3. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	56	5,900,000	0	0
FY97	0	0	0	0
FY98	18	1,907,946	0	0
FY99	0	0	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	15	57	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME FAMILY OF MEDIUM TACTICAL VEHICLES	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE - SEE P5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
5T CARGO TRUCK (BPAC 2232)	A	56	105357	5900				18	105997	1908			
5T WRECKER (BPAC 2234)	A							3	228588	686			
TOTAL		56		5900				21		2594			

	P-1 SHOP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	15	58	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MEDIUM TACTICAL VEHICLE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
M1083 5T CARGO TRUCK (BPAC 2232)										
FY96	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	CM-5/FPE OPTION (YR4)	AFMC/WR-ALC	AUG 96	AUG 97	56	105,357			
FY98	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	CM-5/FPE OPTION (YR5)	AFMC/WR-ALC	MAR 98	MAR 99	18	105,997	YES	NO	
M1089, 5T WRECKER (BPAC 2234)										
FY98 #	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	OPTION	AFMC/WR-ALC	MAR 98	MAR 99	3	228,588	YES	NO	

D. REMARKS

FIRST TIME BUY FOR US AIR FORCE.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE HIGH MOBILITY VEHICLE					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	100	0	0	112	116	127
COST (In Mil)	0	0	$5.165	0	0	$0.927	$1.127	$1.758

1. These utility trucks are High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), Model M1097A2. These vehicles have the capability to operate in austere, all terrain locations. They are required to support security police, civil engineering, communications, and special operations airlift communities. The M1097A2 is the work horse for the US Army; thus, with requirements to conduct combined joint operations, the M1097A2 is also the logical choice for the Air Force, due to the commonality and compatibility of parts and maintenance support in a joint force environment. It is essential this vehicle be procured to support Air Force global commitments. The total Air Force FY98 procurement requirement is 2,795 against an inventory objective of 3,573.

3. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	16	60	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: HIGH MOBILITY VEHICLE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
M1097A2 HMMWV (BPAC 2261)										
FY96 *	ARMY/TACOM (AM General) South Bend, IN	CM-5/FPE OPTION	AFMC/WR-ALC	JUN 96	FEB 97	47	49,472			
FY98	ARMY/TACOM (AM General) South Bend, IN	CM-5/FPE OPTION	AFMC/WR-ALC	MAR 98	SEP 98	100	51,649	YES	NO	

D. REMARKS

* FUNDED IN ITEMS LESS THAN $2,000,000.

P-1 SHOPP LIST ITEM NO. 16

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Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK, TRACTOR, OVER 5T				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	58	38	27	35	78	177	261	81
COST (In Mil)	$3.692	$2.713	$1.916	$2.544	$5.578	$12.895	$18.872	$6.234

1. This family of vehicles is comprised of commercial, diesel engine driven truck tractors with capacities exceeding 5 tons. They are used for towing critical direct mission support equipment such as missile trailers and liquid oxygen and nitrogen trailers. The total Air Force FY98 procurement requirement is 1,499 against an inventory objective of 2,792.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	6	375,912
FY97	6	428,690	0	0
FY98	0	0	2	130,818
FY99	6	440,732	4	293,546

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	17	62	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	TRUCK, TRACTOR, OVER 5T	MULTIPLE - SEE P5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
44,500 GVW US (BPAC 2331)	A	51	62652	3195	6	64027	384	5	65409	327	6	66850	401
55,000 GVW US (BPAC 2335)	A	1	74904	75	13	81147	1055	2	82932	166	2	84717	169
MISSILE SUPPORT (BPAC 2336)	A	6	70287	422	2	71093	142	10	73380	734	16	74996	1200
39,500 GVW US (BPAC 2338)	A				17	66599	1132	10	68890	689	11	70374	774
TOTALS		58		3692	38		2713	27		1916	35		2544

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	17	63	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, TRACTOR, OVER 5T

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
44,500 GVW US (BPAC 2331)										
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 96	MAY 96	51	62,652			
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 96	MAR 97	6	64,027			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	5	65,409	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	6	66,850	YES	NO	
55,000 GVW US (BPAC 2335)										
FY96	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 96	APR 96	1	74,904			
FY97	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 97	APR 97	13	81,147			
FY98	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 98	APR 98	2	82,932	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 99	APR 99	2	84,717	YES	NO	

D. REMARKS

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, TRACTOR, OVER 5T

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
MISSILE SUPPORT (BPAC 2336)										
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 96	MAY 96	3	68,861			
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	1	76,961			
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	APR 96	JUL 96	2	69,089			
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 97	APR 97	2	71,093			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 98	APR 98	10	73,380	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 99	APR 99	16	74,996	YES	NO	

D. REMARKS

P-1 SHOPP LIST ITEM NO. 17

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Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, TRACTOR, OVER 5T

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
39,500 GVW US (BPAC 2338)										
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 96	MAR 97	17	66,599			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	10	68,890	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	11	70,374	YES	NO	

D. REMARKS

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE CAP VEHICLES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$0.781	$0.760	$0.746	$0.744	$0.762	$0.779	$0.792	$0.800

1. This is a continuing program for acquisition of vehicles to support Civil Air Patrol (CAP) activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counter drug, disaster relief, and training activities. FY98 and FY99 continue funding procurement of vehicles to support day-to-day operations.

2. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000 (CARGO-UTILITY)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$11.382	$13.194	$5.025	$11.434	$11.688	$5.247	$1.588	$7.390

1. This P-1 line includes various cargo-utility vehicles with a procurement value of less than $2,000,000.

2. See attached lists of Code A items.

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	1,000,000	200,000
FY97	1,500,000	0
FY98	0	200,000
FY99	1,100,000	200,000

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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ITEMS LESS THAN $2,000,000, CARGO-UTILITY

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 $ (THOU)	FY 1999 QTY	FY 1999 $ (THOU)
TRUCK PICKUP 3/4T 4X4 (BPAC 2992002)	2320008116869	20	377	35	674
TRUCK PICKUP COMPACT 4X4 US (BPAC 2992003)	2320010878223	2	37		
SEMI-TRAILER 60T LOWBOY (BPAC 2993002)	2330003792572			1	30
SEMI-TRAILER 20T 38 FOOT (BPAC 2993004)	2330013819477	2	41	6	125
SEMI-TRAILER 22 T TILT DECK (BPAC 2993005)	2330001383011	1	21		
SEMI-TRAILER VAN CARGO 12T (BPAC 2993006)	2330008655443	1	23	2	46
SEMI-TRAILER LOW BED 35T (BPAC 2993007)	2330010516648			3	81
SEMI-TRAILER 50T LOWBOY (BPAC 2993008)	2330010585911			1	59
TRUCK VAN 24,000 GVW BAND (BPAC 2994002)	2320010397929	1	34	1	35
TRUCK VAN MAIL DISTRIBUTION (BPAC 2994018)	2320010031538			1	60
TRAILER CARGO 1.5T M-105 (BPAC 2996003)	2330005416466			1	8
TRAILER CHASSIS 2.5T M-200 (BPAC 2996008)	2330005403950	4	27	3	20
TRUCK TRACTOR 15T 6X4 M-915 (BPAC 2996013)	2320011252640			1	136
TRUCK CARGO 5T (BPAC 2996034)	2320013543386			7	758
TRAILER HIGH MOBILITY (BPAC 2996036)	2330013886662	12	85	15	109
TRUCK CARGO 2.5T M-35 SLEP (BPAC 2996037)	2320005403963	3	166	4	226
TRUCK TRACTOR SPOTTER (BPAC 2999002)	2320002392944			1	67
TRUCK TRACTOR 24,000 GVW 4X2 (BPAC 2999003)	2320006112429			2	88
SEMI-TRAILER 25T LOWBOY (BPAC 299A007)	2330008997526			1	18
TRUCK UTILITY MULTI-PURPOSE (BPAC 299A030)	2320013808604			22	1091
TRUCK UTILITY SP (BPAC 299A031)	2320013808605			19	1105
TRUCK UTILITY EOD (BPAC 299A032)	2320013808606			21	1077
TRUCK UTILITY 4000 GVW 4X4 (BPAC 299B001)	2320009889120			1	20
TRUCK UTILITY 6000 GVW 4X4 (BPAC 299B002)	2320010795354	19	503	22	595
TRUCK UTILITY 4000 GVW 4X4 (BPAC 299B005)	2320013386502	3	60	4	82
TRUCK UTILITY 6000 GVW 4X4 BI-FUEL (BPAC 299B014)	2320010795354	44	1268	33	972
TRUCK UTILITY 4000 GVW 4X4 BI-FUEL (BPAC 299B016)	2320009889120			3	82
TRUCK UTILITY 4000 GVW 4X4 BI-FUEL (BPAC 299B019)	2320013386502	3	83		
MINOR REPLACEMENT ITEMS (BPAC 299C002)			1390		543
TRUCK 4X2 6 PASS TRAILER TOW (BPAC 299C010)	2320010107351	8	193	9	222
TRUCK CARGO 2.5T 4X4 (BPAC 299C011)	2320008017593	1	52	1	53
TRUCK CARGO 2.5T 4X2 (BPAC 299C014)	2320007023537			1	37
TRUCK PANEL 4X2 (BPAC 299C018)	2320010132754	7	114	60	1001
TRUCK PANEL 4X2 JAPAN (BPAC 299C021)	2320010132754			2	28

TRUCK STAKE & PLATFORM 4X2 (BPAC 299C026)	2320008518481	4	84	23	491
TRUCK STAKE & PLATFORM 10000 GVW 4X2 (BPAC 299C027)	2320012507367	10	226	25	577
TRUCK STAKE & PLATFORM 10000 GVW 4X4 (BPAC 299C028)	2320013022698	1	25	1	26
TRUCK PANEL 4X2 BI-FUEL (BPAC 299C040)	2320010132754	10	192	43	843
TRUCK S&P 1T 4X2 JAPAN (BPAC 299C048)	2320008518481	2	24	4	49
TOTALS		158	5025	379	11434

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE HMMWV, ARMORED					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	25	38	125	28	14	13	13	24
COST (In Mil)	$3.817	$7.396	$24.181	$5.501	$2.809	$2.662	$2.723	$3.516

1. These are armored High Mobility Multipurpose Wheeled Vehicles (HMMWV), also known as HUMMERS. They are diesel powered utility trucks which provide added ballistic protection for armament components, crew, and ammunition. The total Air Force FY98 procurement requirement is 1,727 against an inventory objective of 1,960.

2. These trucks are essential to the Force Protection/Anti-Terrorism effort in the Air Force. The growth from FY97 to FY98 is in support of the FP/AT effort. This is a joint program with the US Army to provide an armored vehicle which will satisfy Explosive Ordnance Disposal (EOD), Civil Engineering (CE), and Base Recovery After Attack (BRAAT), and Security Police (SP) requirements. EOD will employ this vehicle as an Unexploded Ordnance (UXO) team work platform and CE will use it to support damage assessment and as an Armored Personnel Carrier (APC). The SP will use it for force protection and nuclear weapon security and Air Base Defense operations.

3. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO. 21	PAGE NO. 71	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME HMMWV, ARMORED	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION AM GENERAL, SOUTH BEND, IN

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
HMMWV, UP-ARMORED, M1116 (BPAC 3201)	A	17	196882	3347	38	194632	7396	125	193450	24181	28	196464	5501
HMMWV, LIGHT ARMORED, M1025A2 (BPAC 3202)	A	8	58711	470									
TOTALS		25		3817	38		7396	125		24181	28		5501

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	21	72	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: HMMWV, ARMORED

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
HMMWV, UP-ARMORED, M-1116 (BPAC 3201)										
FY96	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	AUG 96	AUG 97	17	196,882			
FY97	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JUN 97	JAN 98	38	194,632	YES	NO	
FY98	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JAN 98	JAN 99	125	193,450	YES	NO	
FY99	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JAN 99	JAN 00	28	196,464	YES	NO	
HMMWV, ARMORED, M-1025A2 (BPAC 3202)										
FY96	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	APR 96	OCT 96	8	58,711			

D. REMARKS

P-1 SHOPP LIST ITEM NO. 21

PAGE NO. 73

Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRACTOR, TOW, FLIGHTLINE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	152	108	124	306	189	211	118	6
COST (In Mil)	$4.226	$3.120	$3.837	$9.682	$6.117	$6.970	$3.986	$0.207

1. This vehicle family is defined as diesel engine driven two and four wheel drive tow tractors necessary for towing aircraft and support equipment. This tractor is capable of towing support equipment loads up to 40,000 pounds and aircraft up to 70,000 pounds. Most major commands, including PACAF, AFMC, USAFE, ANG, and ACC, operate this vehicle in direct mission support roles. Depending on terrain and mission requirements, there are various configuration options available. The total Air Force FY98 procurement requirement is 2,420 against an inventory objective of 4,383.

2. Code A.

3. Unit Price: $30,946

5. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	2	55,608	0	0
FY97	17	491,181	0	0
FY98	0	0	0	0
FY99	14	442,974	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	22	74	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRACTOR, TOW, FLIGHTLINE (BPAC 3332)										
FY96	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 95	NOV 96	152	27,804			
FY97	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 96	JAN 98	108	28,893			
FY98	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 97	NOV 98	124	30,946	YES	NO	
FY99	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 98	MAR 99	306	31,641	YES	NO	

D. REMARKS

FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97														FISCAL YEAR 98												FISCAL YEAR 99												LATE
					96	96	96	CALENDAR YEAR 97											CALENDAR YEAR 98												CALENDAR YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
TRACTOR, TOW, FLIGHTLINE																																									
ENTWHISTLE CO.																																									
FY91 (FIRST ARTICLE)	AF	3	2	1																																					1
FY91 (1ST YR)	AF	566	145	421	30	22	19	19	19	17	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10															
FY91 (2ND YR)	AF	17	0	17																					9	8														
FY94 (3RD YR)	AF	39	0	39																						11	19	9												
FY95 (4TH YR)	AF	9	0	9																								9												
FY96 (OPTION)	AF	152	0	152		4	11	11	11	11	11	11	11	11	11	11	11	11	11	5																			
FY97 (OPTION)	AF	108	0	108		C														6	11	11	11	11	11	11	11	11	12	2										
FY98 (OPTION)	AF	124	0	124														C											26	30	30	30	8							
FY99 (OPTION	AF	306	0	306																									C			22	30	30	30	30	30	30	104
OTHER REQUIREMENTS																																								
DMIF (OPTION)	DBOF	5	0	5		4																							1											
FY95	NAVY	1	0	1																									1											
TOTAL		792	147	792	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	105
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
ENTWHISTLE CO.	20		30							
HUDSON, MA					INITIAL		8	12	20	
					REORDER		2	4	6	

P-1 SHOPPING LIST
ITEM NO. 22

FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00												FISCAL YEAR 01												FISCAL YEAR 02												LATER
					99	99	99	CALENDAR YEAR 00									CALENDAR YEAR 01												CALENDAR YEAR 02												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
TRACTOR, TOW, FLIGHTLINE																																							
ENTWHISTLE CO.																																							
FY91 (FIRST ARTICLE)	AF	3	2	1				1																															
FY91 (1ST YR)	AF	566	566	0																																			
FY91 (2ND YR)	AF	17	17	0																																			
FY94 (3RD YR)	AF	39	39	0																																			
FY95 (4TH YR)	AF	9	9	0																																			
FY96 (OPTION)	AF	152	152	0																																			
FY97 (OPTION)	AF	108	108	0																																			
FY98 (OPTION)	AF	124	124	0																																			
FY99 (OPTION	AF	306	202	104	30	30	30	14																															
OTHER REQUIREMENTS																																							
DBOF (OPTION)	DBOF	6	6	0																																			
FY95	NAVY	1	1	0																																			
TOTAL		792	1225	792	30	30	30	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN	MAX	REA-CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
ENTWHISTLE CO. HUDSON, MA	20	30		INITIAL		8	12	20	
				REORDER		2	4	6	

P-1 SHOPPING LIST
ITEM NO. 22

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000 (SPECIAL PURPOSE)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$6.477	$4.930	$6.738	$10.178	$14.997	$16.797	$19.418	$15.175

1. This item includes Special Purpose vehicles with a procurement value of less than $2,000,000 each. The vehicles are maintenance and facility support vehicles that are essential to base operations and aircraft tow tractors which are essential to flying operations.

2. See attached lists of Code A items.

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	2,500,000	0
FY97	300,000	0
FY98	400,000	100,000
FY99	2,200,000	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	23	78	

ITEMS LESS THAN $2,000,000, SPECIAL PURPOSE

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 $ (THOU)	FY 1999 QTY	FY 1999 $ (THOU)
TRUCK REFUSE REAR HOIST (BPAC 3991002)	2320008026354	1	70		
TRUCK REFUSE FRONT LOAD 24CY (BPAC 3991003)	2320008976837			2	255
TRUCK REFUSE TILT FRAME (BPAC 3991006)	2320008338957			1	156
TRAILER CABLE REED 10T (BPAC 3992003)	2330004207079			3	60
TRUCK TANK 1200 GALLON 4X2 (BPAC 3993008)	2320001776777	1	62	1	63
TRUCK TANK 1200 GALLON 4X4 (BPAC 3993010)	2320001776778	10	773	3	237
SEMI-TRAILER WATER DISTRIBUTOR 5500 GAL (BPAC 3994010)	3825005703417			1	40
SEMI-TRAILER COMPRESSED GAS (BPAC 3994018)	2330009955613			2	418
SEMI-TRAILER NITRIC ACID (BPAC 3994020)	2330002450697			1	20
TRAILER CHASSIS 1T MB-1 (BPAC 3995001)	2330005403715	5	19	5	19
TRAILER 400 GALLON WATER (BPAC 3996003)	2330000606511	2	24	2	24
TRUCK REEFER VAN 19,000 GVW (BPAC 3997001)	2320007704467	10	459	6	281
TRUCK 9T HI LIFT (BPAC 3999002)	2320005403991	8	871	3	334
TRUCK 3T HI LIFT (BPAC 3999003)	2320005403489	1	82	1	84
TRUCK MAINTENANCE LINE CONSTRUCT (BPAC 399A004)	2320013727398			2	267
TRUCK MAINTENANCE 3/4T 4X4 BI-FUEL (BPAC 399A005)	2320005411714	12	350	10	298
TRUCK MAINTENANCE 3/4T 4X4 (BPAC 399A006)	2320005411714	1	21	1	21
TRUCK MAINTENANCE HI-REACH 45 FT (BPAC 399A007)	2320009955610	11	893	5	415
TRUCK MAINTENANCE HI-REACH 65 FT (BPAC 399A008)	2320009897163			2	247
TRUCK PHONE MAINTENANCE STANDARD (BPAC 399A010)	2320008019193	1	20	6	123
TRUCK PHONE MAINTENANCE COMPACT (BPAC 399A011)	2320010939261			48	679
TRUCK PHONE MAINTENANCE S-90 (BPAC 399A012)	2320004558464			1	106
TRUCK PHONE MAINTENANCE S-55 4X4 (BPAC 399A014)	2320010385067			1	151
TRUCK MAINTENANCE 1T (BPAC 399A021)	2320013437375	8	183	36	841
TRUCK MAINTENANCE COMPACT (BPAC 399A023)	2320010939261	2	43	30	652
TRUCK PHONE MAINT STANDARD BI-FUEL (BPAC 399A024)	2320008019193	7	164	7	168
TRUCK PHONE MAINT CREW CAB (BPAC 399A025)	2320013951368			2	60
TRUCK STAKE & PLATFORM 3T (BPAC 399B001)	2320009354696			1	70
TRUCK HYDRANT HOSE R-12 (BPAC 399B002)	2320011252481	4	575	4	587
SEMI-TRAILER VAN REFRIG 7.5T (BPAC 399B011)	2330008815306	1	39	1	40
MINOR REPLACEMENT ITEMS (BPAC 399B013)			280		102
TRACTOR AIRCRAFT TOW MB-2 (BPAC 399C002)	1740001438464	4	404	12	1240
TRACTOR AIRCRAFT TOW U-30 (BPAC 399C003)	1740013679485	3	509	3	520
TRACTOR WHEELED 85HP (BPAC 399C005)	2420012058579			1	35
TRACTOR INDUSTRIAL IW-70 (BPAC 399C008)	2420001138984	5	115	11	258
TRACTOR AIRCRAFT TOW MB-4 (BPAC 399C013)	1740005807990	11	722	12	806
WRECKER TILT BED (BPAC 399E001)	2320013804755	1	60		
WRECKER 4X2 (BPAC 399E004)	2320013033010			3	310
WRECKER 6X4 44,500 GVW (BPAC 399E005)	2320011306353			1	191
TOTALS		109	6738	231	10178

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK CRASH P-19				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	7	5	13	4	3	14
COST (In Mil)	0	0	$2.048	$1.495	$3.974	$1.249	$0.958	$4.570

1. This aircraft crash rescue fire truck equips our bases with a vehicle capable of rapidly extinguishing aircraft fires. When equipped with a structural kit, it serves dual roles of aircraft crash rescue truck and structural fire truck. It has a 1,000 gallon tank, is air transportable in C-130 aircraft, and is used by all military services. The total Air Force FY98 procurement requirement is 668 against an inventory objective of 690.

2. Code A.

3. Unit Price: $292,521.

5. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	24	80	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CRASH P-19

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK CRASH P-19 (BPAC 4012)										
FY87	AF (OSHKOSH) OSHKOSH, WI	OPTION	AFMC/WR-ALC	FEB 87	OCT 87	14	157,827			
FY98	DCSC (UNKNOWN) *	ID/IQ	AFMC/WR-ALC	DEC 97	SEP 98	7	292,521	YES	NO	
FY99	DCSC (UNKNOWN)	ID/IQ	AFMC/WR-ALC	DEC 98	SEP 99	5	298,966	YES	NO	

D. REMARKS

* DCSC WILL BUY ON AN INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK CRASH P-23					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	4	1	1	0	6
COST (In Mil)	0	0	0	$2.536	$0.648	$0.662	0	$4.151

1. This is an 8-wheel-drive, diesel engined aircraft crash fire truck with a 3,000 gallon capacity. It is designed to rescue entrapped personnel and to combat fires resulting from aircraft crashes. It also provides a capability for long and continued application of cooling agent to prevent detonation of high explosives aboard burning aircraft. This vehicle is required by all bases supporting aircraft having fuel capacity of 3,600 to 16,000 gallons. The total Air Force FY98 procurement requirement is 135 against an inventory objective of 376.

2. Code A.

3. Unit Price: $633,933 (FY99).

5. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	25	82	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK CRASH P-23

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK CRASH P-23 (BPAC 4032)										
FY94	AF (TELEDYNE) OCALA, FL	OPTION	AFMC/WR-ALC	JUN 94	APR 96	3	424,507			
FY99	DCSC (UNKNOWN) *	ID/IQ	AFMC/WR-ALC	DEC 98	JUN 99	4	633,933	YES	NO	

D. REMARKS

* DCSC WILL BUY ON AN INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
25	83	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000 (FIRE FIGHTING)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.406	0	$3.652	$1.993	$3.310	0	0	$0.462

1. This P-1 Line includes fire fighting equipment with a procurement value of less than $2,000,000. These vehicles include both structural fire trucks and aircraft crash rescue trucks.

2. See following list of Code A items.

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 $(THOU)	FY 1999 QTY	FY 1999 $(THOU)
P-23 Aircraft Crash Fire Truck (BPAC 4991)	4210007026801	2	1240		
P-26 Water Supply Truck (BPAC 499D)	4210013564907	2	473	1	242
P-22 Structural Fire Truck (BPAC 499F)	4210002244564			1	181
Hazardous Material Truck (BPAC 499G)	4210013965219			2	469
P-28 Heavy Rescue Vehicle (BPAC 499H)	4210013696048	9	1939	5	1101
TOTALS		13	3652	9	1993

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	0	700,000
FY97	0	0
FY98	0	0
FY99	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	27	84	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK F/L 10,000 LB				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	26	71	74	82	12	10
COST (In Mil)	0	0	$1.758	$5.091	$6.396	$7.405	$0.812	$0.676

1. This family of vehicles is defined as pneumatic tired (PT), 10,000 pound (10K), commercial forklifts. These forklifts are the basic 463L air cargo system support vehicles to handle 108" X 88" pallets. They are compatible with and support all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet (CRAF) aircraft. The family consists of the standard model with dual 105" lift, 72" tine configuration and lateral shift capability as well as the adverse terrain (AT) model which utilizes a front end scoop loader chassis to provide the required mobility. The AT model permits rapid loading/offloading of aircraft cargo at forward combat locations. The total Air Force FY98 procurement requirement is 1,293 against an inventory objective of 3,156.

2. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	28	85	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK FORKLIFT, 10,000 LB	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Contractors (See P-5A)

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
TRUCK FORKLIFT, 10K AT (BPAC 5031)	A							11	90940	1000	37	92939	3439
TRUCK FORKLIFT 10K STANDARD (BPAC 5032)	A							15	50556	758	34	48578	1652
TOTALS								26		1758	71		5091

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	28	86	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK, F/L 10,000 LB

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK FORKLIFT 10K AT (BPAC 5031)										
FY91	DEERE DAVENPORT, IA	CM-4/FPE OPTION (4YR)	AFMC/WR-ALC	AUG 91	MAR 92	95	58,732			
FY97 *	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 97	MAR 98	1	114,000**	YES	NO	
FY97 *	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 97	DEC 98	6	89,104	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	JAN 99	11	90,940	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/WR-ALC	DEC 98	MAR 99	37	92,939	YES	NO	
TRUCK FORKLIFT 10K STANDARD (BPAC 5032)										
FY95	HYSTER DANVILLE, IL	OPTION	AFMC/WR-ALC	APR 95	JUN 96	32	43,746			
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	MAR 99	1	92,587**	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	DEC 99	14	47,554	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/WR-ALC	MAY 99	FEB 00	34	48,578	YES	NO	

D. REMARKS

* FUNDED IN ITEMS LESS THAN $2,000,000.
** FIRST ARTICLE UNIT PRICE INCLUDES COST OF FIRST ARTICLE TESTS.

| FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: TRUCK FORKLIFT 10,000 LB | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | | |

| FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: TRUCK FORKLIFT 10,000 LB | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | |

| FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: TRUCK FORKLIFT 10,000 LB | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | | |

| FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE: TRUCK FORKLIFT 10,000 LB | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE 60K A/C LOADER				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	34	0	60	60	60	16	0	0
COST (In Mil)	$42.336	0	$83.143	$93.406	$91.916	$19.327	0	0

1. The 60,000 pound (60K) aircraft loader will augment and ultimately replace the current 463L material handling equipment (MHE) system 40,000 pound aircraft loader, the lower lobe aircraft loader, and approximately one-half of the wide body elevator aircraft loaders, thus providing increased heavy lift and transport capability. It will be the backbone of the strategic airlift 463L MHE vehicle fleet and is the critical link ensuring rapid on/off-load capability of strategic airlift including Civil Reserve Aircraft Fleet (CRAF) aircraft. The 60K loader is an integral part of the airlift system during peacetime logistics missions and it assures minimum ground times for increased capability during wartime surges. The 60K loader is designed to handle all configurations of air cargo including 463L pallets, commercial pallets, type V airdrop platforms, container delivery system (CDS) loads, International Standard Organization (ISO) containers, LD3 containers, and rolling stock. The loader will have the capability to accommodate six pallets and load/off-load a maximum of 60,000 pounds (to accommodate an Army airdrop requirement) to a height of at least 18.5 feet (to accommodate 747 aircraft) and to have a lowering capacity to 39 inches. It will work with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the CRAF. It is designed to meet nuclear materials handling safety criteria and certification. The 60K loader will be "drive-on drive-off" and air transportable on C-141, C-5, and C-17 aircraft. R&D funds provided four prototypes (two each from two contractors). Development, Test, and Evaluation (DT&E) was completed in November 1993 and the Operational Assessment (OA) was completed in January 1994. The initial production contract was awarded to Southwest Mobile Systems (now Systems and Electronics, Inc.) in April 1994. The inventory objective is 318 loaders; 59 are funded in FY94 thru FY96; 255 will be on hand at the end of the FY2001 funded delivery period.

4. Code A.

5. Unit Price: $1,300,000.

6. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	1	1,091,029
FY97	0	0	0	0
FY98	1	1,300,000	2	2,600000
FY99	1	1,200,000	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	29	92	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	60K A/C LOADER	SYSTEMS ELECTRONICS, INC. WEST PLAINS, MO

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
60K AIRCRAFT LOADER (BPAC 5121)	A	34	1091029	37095				60	1300000	78000	60	1200000	72000
NON-RECURRING COST (BPAC 5122)	A												
A. ECONOMIC PRICE ADJUSTMENT				2559									
B. RELIABILITY INCENTIVE													10000
C. ON-SITE ENG TECH SUPPORT				299									
D. ECO/RISK				1774						5067			11322
SUB-TOTAL NON-RECURRING				4632						5067			21322
DATA (BPAC 5123)	A			52						76			84
SUPPLY SUPPORT (BPAC 5124)	A			557									
TOTALS		34		42336				60		83143	60		93406

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	29	93	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: 60K AIRCRAFT LOADER

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
60K AIRCRAFT LOADER (BPAC 5121)										
FY96	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	C/FPIS (3RD YEAR)	AFMC/WR-ALC	NOV 95	MAR 98	34	1,091,029			
FY98	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	TBD	AFMC/WR-ALC	APR 98	JAN 99	60	1,300,000	YES	YES	JUL 98*
FY99	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	TBD	AFMC/WR-ALC	NOV 98	JAN 00	60	1,200,000	YES	NO	JUL 98*

REMARKS

* FINAL SPECIFICATIONS WILL BE THE CONTRACTOR'S DESIGN UNIQUE SPECIFICATIONS WHICH WILL BE DELIVERED 60 DAYS AFTER PHYSICAL CONFIGURATION AUDIT (PCA).

NOTE: C/FPIS = COMPETITIVE/FIXED PRICE INCENTIVE WITH SUCCESSIVE TARGETS.

FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: 60K AIRCRAFT LOADER	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97														FISCAL YEAR 98												FISCAL YEAR 99										LATER
					96	96	96	CALENDAR YEAR 97											CALENDAR YEAR 98												CALENDAR YEAR 99										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
60K AIRCRAFT LOADER																																								
SYSTEMS & ELECTRONICS, INC.																																								
FY94 (1ST YR)	AF	10	0	10									4						2	4																					
FY95 (2ND YR)	AF	15	0	15																	15																				
FY96 (3RD YR)	AF	34	0	34																		6	2	2	3	3	3	3	4	4	4										
NEW CONTRACT																																								
SYSTEMS & ELECTRONICS, INC.																																								
FY98	AF	60	0	60																			C									5	5	5	5	5	5	5	5	5	15
FY99	AF	60	0	60																										C										60
TOTAL		179	0	179	0	0	0	0	0	0	0	0	4	0	0	0	0	0	2	4	15	6	2	2	3	3	3	3	4	4	4	5	5	5	5	5	5	5	5	5	75
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA-CH D+
SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO	2		5	

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
		7	9	16
REORDER		2	14	16

REMARKS:
NOTE: 4 LOADERS WILL BE DELIVERED IN JUN 97 TO BE USED FOR INITIAL OPERATIONAL TEST & EVALUATION (IOT&E). CONTRACTOR WILL CONTINUE TO PRODUCE, BUT AF WILL NOT ACCEPT THE 15 LOADERS UNTIL SUCCESSFUL COMPLETION OF IOT&E.

P-1 SHOPPING LIST
ITEM NO.
29

FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: 60K AIRCRAFT LOADER	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00												FISCAL YEAR 01												FISCAL YEAR 02												LATER
					99	99	99	CALENDAR YEAR 00											CALENDAR YEAR 01												CALENDAR YEAR 02											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
60K AIRCRAFT LOADER																																								
SYSTEMS & ELECTRONICS, INC.																																								
FY94 (1ST YR)	AF	10	10	0																																				
FY95 (2ND YR)	AF	15	15	0																																				
FY96 (3RD YR)	AF	34	34	0																																				
NEW CONTRACT																																								
SYSTEMS & ELECTRONICS, INC.																																								
FY98	AF	60	45	15	5	5	5																																	
FY99	AF	60	0	60				5	5	5	5	5	5	5	5	5	5	5	5																					
TOTAL		179	104	75	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA-CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO	2		5				7	9	16
					REORDER		7	9	16

REMARKS:

P-1 SHOPPING LIST
ITEM NO.
29

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE NEXT GENERATION SMALL LOADER				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	22	33	37	49	64
COST (In Mil)	0	0	0	$29.957	$30.636	$31.599	$39.943	$47.803

1. The Next Generation Small Loader (NGSL) will augment and ultimately replace the oldest and increasingly unreliable 25K loaders and remainder of the wide body elevator loader (WBEL) fleet. Unlike the 60K loader, the NGSL will be C-130 transportable which will further enhance the Air Force's ability to support rapid deployment to austere operating locations. The NGSL, in conjunction with the 60K loader, will be an integral part of the airlift system during peacetime logistics missions and assure minimum ground times for increased capability during wartime and contingency surges.

2. The NGSL is designed to handle all configurations of air cargo, including 463L pallets, commercial pallets, type V airdrop platforms, container delivery system (CDS) loads, International Standard Organization (ISO) containers, LD3 containers, and rolling stock. The loader will have the capability to load/offload up to three pallets (up to a maximum of 25,000 to 30,000 pounds) to a height of between 39 inches and 18.5 feet (to accommodate 747 aircraft). It will work with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the Civil Reserve Airlift Fleet (CRAF).

3. RDT&E, AF, funds will procure two foreign loaders to undergo Foreign Comparative Testing (FCT) during the FY97-98 time frame. The initial production contract is planned to be awarded in FY99 and deliveries to commence in FY00. See Air Force Descriptive Summary for Program Element Code 41214F. The inventory objective is 264 loaders.

4. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	30	97	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/VEHICULAR EQUIPMENT	NEXT GENERATION SMALL LOADER	UNKNOWN

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NGSL LOADER (BPAC 5151)	B										22	726611	15985
NON-RECURRING COSTS (BPAC 5122)													13672
DATA (BPAC 5123)													300
TOTALS											22		29957

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	30	98	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE NEXT GENERATION SMALL LOADER						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
NEXT GENERATION SMALL LOADER (BPAC 5151)										
FY99	AF (UNKNOWN)	TBD	AFMC/WR-ALC	MAR 99	MAR 00	22	726,611	NO		TBD

D. REMARKS			
	P-1 SHOPP LIST ITEM NO. 30	PAGE NO. 99	Exhibit P-5a Procurement History and Planning

FY99 PRESIDENT'S BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: NEXT GENERATION SMALL LOADER	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96	96	96	CALENDAR YEAR 97										CALENDAR YEAR 98												CALENDAR YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
NEXT GENERATION SMALL LOADER																																								
UNKNOWN																																								
FY99	AF	22	0	22																																		C		22
TOTAL		22	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
UNKNOWN										
							10	12	22	
					REORDER					

P-1 SHOPPING LIST
ITEM NO.
30

| FY99 PRESIDENT'S BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE: NEXT GENERATION SMALL LOADER | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000 (MATERIALS HANDLING EQUIP)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.493	$2.486	$2.148	$5.034	$8.107	$5.015	$1.336	$1.391

1. These items include materials handling equipment (MHE) with a procurement value of less than $2,000,000. These vehicles are lifting and sequencing devices which are critical to the support of base supply and depot operations.

2. See attached listing of Code A items.

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	0	0
FY97	0	200,000
FY98	100,000	200,000
FY99	800,000	100,000

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	31	102	

ITEMS LESS THAN $2,000,000, MATERIALS HANDLING EQUIPMENT

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 $(THOU)	FY 1999 QTY	FY 1999 $(THOU)
FORKLIFT 13K ADVERSE TERRAIN LCAT (BPAC 5991003)	3930011450120	9	935	15	1593
FORKLIFT 15K DED (BPAC 5991004)	3930010113650			2	122
FORKLIFT 4K ELECTRIC ST (BPAC 5991005)	3930000539175			8	257
FORKLIFT 6K ELECTRIC ST (BPAC 5991013)	3930010471157	1	28		
FORKLIFT NARROW AISLE (BPAC 5991022)	3930014221657			1	92
FORKLIFT 10K NON-463L (BPAC 5991023)	3930010153965	1	49		
FORKLIFT NARROW AISLE (BPAC 5991024)	3930014214083	1	97		
FORKLIFT 6K DED (BPAC 5991026)	3930010525219	10	272	32	890
FORKLIFT 4K (BPAC 5991027)	3930010130338	1	22	14	319
FORKLIFT 6K ROUGHT TERRAIN (BPAC 5991029)	3930008792157			15	1253
FORKLIFT 4K LIQUID PROPANE (BPAC 5991034)	3930010130338	5	146	1	29
CONVEYOR BELT TRUCK MOUNTED (BPAC 5993001)	3930000195630	1	29	2	60
WAREHOUSE TRACTOR 4K (BPAC 5994007)	3930010070115	28	558	20	407
TRAILER PALLET CARGO (BPAC 5994010)	3920004809774	3	12	3	12
TOTALS		60	2148	113	5034

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, DUMP					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	32	34	44	70	79	176
COST (In Mil)	0	0	$2.087	$1.519	$2.607	$3.841	$3.860	$10.316

1. This vehicle family consists of standard commercial dump trucks. These vehicles have many applications but are used primarily by civil engineers to haul debris and other material. They are crucial to Rapid Runway Repair (RRR) and are also used for moving material at construction sites. The total Air Force FY98 procurement requirement is 791 against an inventory objective of 2,071.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	0	0	0	0
FY98	3	307,698	3	263,810
FY99	1	63,832	0	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	32	104	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/VEHICULAR EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TRUCK, DUMP	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION VARIOUS - SEE P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DUMP TRUCK 5 TON 4X2 (BPAC 6131)	A							13	40748	530	29	41646	1208
DUMP TRUCK 5 TON 4X4 (BPAC 6132)	A							1	62429	62	3	63832	191
DUMP TRUCK 44,500 GVW 6X4 (BPAC 6133)	A							8	58678	469	2	59971	120
DUMP TRUCK 55,000 GVW 6X4 (BPAC 6134)	A							10	102566	1026			
TOTALS								32		2087	34		1519

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	32	105	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK DUMP

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK DUMP 5 TON 4X2 (BPAC 6131)										
FY96 *	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 96	APR 96	2	39,031			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	13	40,748	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	29	41,646	YES	NO	
TRUCK DUMP 5 TON 4X4 (BPAC 6132)										
FY93	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 93	MAY 93	4	56,091			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	1	62,429	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	3	63,832	YES	NO	

D. REMARKS

* FUNDED IN ITEMS LESS THAN $2,000,000 (P-1 LINE # 34).

P-1 SHOPP LIST ITEM NO. 32

PAGE NO. 106

Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/VEHICULAR EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TRUCK DUMP

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK DUMP 44,500 GVW 6X4 (BPAC 6133)										
FY96 *	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	NOV 95	FEB 96	5	56,205			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 98	JUN 98	8	58,678	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 99	JUN 99	2	59,971	YES	NO	
TRUCK DUMP 55,000 GVW 6X4 (BPAC 6134)										
FY95	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 95	MAR 96	3	98,243			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 98	JUN 98	10	102,566	YES	NO	

D. REMARKS

* FUNDED IN ITEMS LESS THAN $2,000,000 (P-1 LINE # 34).

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.355	$4.249	$0.200	$0.200	$0.200	$0.200	$0.200	$0.200

1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for vehicle equipment.

2. The FY96 and FY97 programs will modify 25K loaders to enable them to load and unload cargo from wide body aircraft. Modification of 69 loaders will add a device which will increase the reach height of the deck from its current 13 foot reach to an 18 foot, 4 inch reach. The current loaders cannot service wide body aircraft due to their limited reach. Use of wide body aircraft for movement of DoD air cargo has steadily increased over the years, but the assets required for loading and offloading of these aircraft have not kept pace. There is a shortfall in material handling equipment (MHE) with high lift capability. Modifying these loaders will greatly enhance the Air Force's capability to accomplish its mission. Currently, there is a limited number of wide body elevator loaders (WBEL) in the field and they are used extensively to accomplish real world missions. These assets are routinely repositioned for air cargo loading and offloading. This practice is costly (approximately $350,000 per month) and manpower intensive.

3. The FY98 and FY99 programs represent a level of effort $0.2M for "Miscellaneous Low Cost Modifications." This line item is to satisfy historically unforeseen modification requirements such as the 40,000 pound (40K) Aircraft Loaders which were reconfigured for use as casualty transfer vehicles in conjunction with Boeing 767AE aircraft to support Desert Storm.

MOD #	DESCRIPTION	FY96	FY97	FY98	FY99
LVV 01	25K LOADER	1.3	4.0		
N/A	MISC LOW COST MODS		0.2	0.2	0.2
	TOTAL	1.3	4.2	0.2	0.2

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000 (BASE MAINTENANCE SUPPORT EQUIP)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$8.334	1.953	$3.833	$5.838	$6.169	$9.007	$7.496	$10.398

1. This line item includes base maintenance support vehicular equipment with a procurement value of less than $2,000,000. These vehicles provide Civil Engineering with the capability to conduct sanitary landfill operations, improve airfield safety by sweeping airfield areas of foreign object damage (FOD) materials, and repair/construct base physical plant requirements.

2. See attached listing of Code A items.

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	100,000	100,000
FY97	0	0
FY98	100,000	0
FY99	800,000	0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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ITEMS LESS THAN $2,000,000, BASE MAINTENANCE SUPPORT EQUIPMENT

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 $ (THOU)	FY 1999 QTY	FY 1999 $ (THOU)
SMALL UNIT SUPPORT VEHICLE (BPAC 6994002)	2350011329099			4	829
SWEEPER SNOW FRONT MOUNTED (BPAC 6994003)	3825011712798	8	467	1	60
TRUCK DUMP WITH SNOW BLADE (BPAC 6994013)	2320012069156			4	475
SWEEPER ROTARY TOWED (BPAC 6994014)	3825001903291	1	11		
SCOOP LOADER 2.5CY PT (BPAC 6995002)	3805001482169	1	118	1	120
SCOOP LOADER WITH BACKHOE (BPAC 6995003)	3805001482169	3	207	10	704
SCOOP LOADER 2.5CY FULL TRACKED (BPAC 6995005)	3805007289718			1	143
SCOOP LOADER 1.5CY W/QUICK COUPLER (BPAC 6995007)	3805010748111	2	179		
SCOOP LOADER 4CY PT (BPAC 6995008)	3805010751816			1	145
SCRAPER SELF PROPELLED (BPAC 6996001)	3805011538646	1	151		
ROLLER MOTORIZED PT 15T (BPAC 6997002)	3895000785898	1	52		
ROLLER MOTORIZED TANDEM (BPAC 6997005)	3895002436797			1	33
CRANE 7.5 T (BPAC 6998010)	3810010673991			2	371
EXCAVATOR DIESEL PT (BPAC 6999003)	3805011067176			7	1473
CLEANER VACUUM MULTIPURPOSE (BPAC 699A006)	3825011072438	11	784	9	655
SWEEPER DIRT RRR (BPAC 699A008)	3825012271997	2	76	1	39
SNOW PLOW 54,000 GVW (BPAC 699A015)	3825004437657	6	945		
TRENCHER W/TRAILER (BPAC 699B002)	3805010329974			4	245
ICE RESURFACER (BPAC 699C012)	3895002790588	1	63		
DRILL PAVEMENT (BPAC 699C024)	3820004775813	1	49		
DISTRIBUTOR WATER 1500 GAL (BPAC 699C026)	3825005541808	1	69		
TRUCK SEWER CLEANER HI-PRESSURE (BPAC 699C039)	2320001960811	1	93		
TRUCK SEWER CLEANER (BPAC 699C041)	2320013721823	1	179		
COMPACTOR SHEEPS FOOT (BPAC 699C045)	3805013597626	1	189		
TRACTOR DOZER T7 (BPAC 699G002)	2410007561161			2	327
TRACTOR DOZER T11 (BPAC 699G004)	2410007317872			1	219
TRACTOR FULL TRACKED SIZE 2 (BPAC 699G005)	2410008995208	1	30		
GRADER SIZE V (BPAC 699J004)	3805013374624	2	171		
TOTALS		45	3833	49	5838

ELECTRONIC & COMMUNICATIONS EQUIPMENT

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1998-1999

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OTHER PROCUREMENT APPROPRIATION ESTIMATES
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NATIONAL AIRSPACE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	0	0	16.615	54.591	56.293	58.885	66.574	51.531

The National Airspace System (NAS) program provides the equipment and systems required to support air operations within the United States and its territories. The primary objective of the NAS program is to modernize the Department of Defense (DoD) air traffic control (ATC) system in conjunction with the Federal Aviation Administration (FAA) modernization effort. Equipment to be procured will include fixed site approach control and control tower automation, radars, voice switches and ancillary supplies. Use of Non-Developmental Items (NDI) will be maximized. If modernization of the current air traffic equipment is not implemented, systems which are approaching the end of their life cycle will become increasingly more expensive and more difficult to repair. Additionally, the FAA is modernizing the nation's air traffic control system, and DoD must remain operationally compatible with the FAA in order to continue to provide service to the military community and the civil users which depend on DoD's air traffic control services. The NAS program will modernize 44 DoD radar approach control sites in the United States and its territories. Each DoD operational site will receive a site unique array of equipment. There are 23 Air Force sites.

1. **DOD ADVANCED AUTOMATION SYSTEM (DAAS):** The DAAS will provide equipment tailored for the operation of two types of ATC facilities, local control facilities (usually referred to as RAPCONs) and military control tower facilities. DAAS will replace the current generation air traffic control automation system (hardware and software) which exists in the DoD Radar Approach Controls (RAPCONs) throughout the CONUS. It will provide digital controller displays, consoles, automation hardware and software to replace those that are approaching the end of their life cycle. FY99 funds procure 6 DAAS at key Air Force locations.

2. **DIGITAL AIRPORT SURVEILLANCE RADAR (DASR):** The DASR consists of two subsystems, a primary and a secondary surveillance radar. DASR will replace the DoD's current generation analog ATC surveillance radars (GPN-12s and GPN-20s in the Air Force) with Non-Developmental Item (NDI) digital airport surveillance radars which will provide the aircraft position and other data to the controller on displays in the RAPCON. FY98 and FY99 funds procure and install 2 and 4 DASRs respectively at key Air Force locations.

3. **VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS):** There will be three configurations of the Voice Communications Switching System procured. VCSS replaces current voice switches with new digital, NDI voice switches for DoD's Continental U.S. (CONUS) RAPCONs and some stand alone control towers. The VCSS provides the connectivity for the controllers to communicate via landlines and radios with requisite aircraft, vehicles, and agencies. FY98 and FY99 funds procure and install 2 and 4 VCSSs respectively at key Air Force locations.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NATIONAL AIRSPACE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS):** MAMS was developed in response to two General Accounting Office (GAO) audits which criticized the FAA and DoD for inefficient management, use and tracking of special use airspace (SUA). MAMS is an Air Force led program that fields an automated scheduling and utilization reporting system which will interconnect DoD SUA managers and allow more efficient scheduling and management of the activities within a specifically designated SUA. FY99 funds initiate the procurement of work stations, communications hardware and associated software for installation at 14 Air Force bases and operating locations within the CONUS.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME NATIONAL AIRSPACE SYSTEM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. DOD ADVANCED AUTOMATION SYSTEM (DAAS)	A										6	VAR	26,483
2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR)	A							2	6,710	13,420	4	5,952	23,808
3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS)	A							2	VAR	3,195	4	VAR	3,300
4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) HARDWARE	A										14	VAR	1,000
TOTAL										16,615			54,591

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NATIONAL AIRSPACE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. DOD ADVANCED AUTOMATION SYSTEM (DAAS)										
FY 99	RAYTHEON CORP MARLBORO, MA	OPT/FFP[2]	AFMC/ESC	APR 99	APR 00	6	N/A[1]	NO	YES	JUL 98
2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR)										
FY 98	RAYTHEON CORP. MARLBORO, MA	OPT/FFP[3]	AFMC/ESC	MAR 98	MAR 99	2	6,710	NO	YES	JAN 98
FY 99	RAYTHEON CORP. MARLBORO, MA	OPT/FFP[3]	AFMC/ESC	JAN 99	FEB 00	4	5,952	NO	YES	JAN 98
3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS)										
FY 98	DENRO INC. GAITHERSBURG, MD	OPT/FFP[4]	AFMC/ESC	DEC 97	JUL 98	2	N/A[1]	NO	YES	SEP 97
FY 99	DENRO INC. GAITHERSBURG, MD	OPT/FFP[4]	AFMC/ESC	DEC 98	JUL 99	4	N/A[1]	NO	YES	SEP 97
4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) HARDWARE										
FY 99	UNKNOWN	TBD	AFMC/ESC	JAN 99	JUN 99	14	N/A[1]	NO	YES	NOV 98

D. REMARKS

1. PROCUREMENT OF VARIOUS TYPES OF HARDWARE RESULTS IN VARYING UNIT COSTS--EQUIPMENT QUANTITY AND CONFIGURATION WILL VARY FROM SITE TO SITE.
2. PRODUCTION OPTION ON THE FAA-MANAGED CONTRACT.
3. PRODUCTION OPTION ON THE EMD CONTRACT; THERE ARE TWO TYPES OF RADARS, PRIMARY AND SECONDARY.
4. PRODUCTION OPTION TO FAA-MANAGED EMD CONTRACT; THE VOICE SWITCH HAS 3 DIFFERENT CONFIGURATIONS.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003
QUANTITY								
COST (In Mil)	24.348	21.533	38.329	36.830	35.517	35.297	35.873	36.004

The Theater Air Control System Improvements (TACSI) program acquires the state-of-the-art equipment and capabilities essential to survival and combat effectiveness of tactical command and control (C2). Collectively, they provide the flexibility, responsiveness, reliability and maintainability necessary for effective tactical C2. Additionally, TACSI provides funding for procurement of the Air Force Mission Support System (AFMSS) which provides unit level mission planning systems for pilots and supports all current/future aircraft and associated weapons.

1 **GROUND THEATER AIR CONTROL SYSTEM (GTACS):** GTACS supports the roles of aerospace control, force application, force enhancement, and force support. This support is provided to worldwide contingency operations ranging from peacetime contingencies, to military operations other than war, to projecting decisive force into a major regional conflict to support a strategic war. GTACS' mission is to deploy a rapid reaction mobile capability into a theater, then to forward locations within that theater and set up a self-sufficient bases of operations. Once established, GTACS' battle management resources provide joint forces and theater commanders with a recognizable air picture for command and control of air operations. In support of this mission, GTACS elements accomplish battle management, force allocation, control of airborne assets (counter air, aerial refueling, interdiction, close air support, reconnaissance, airlift, special missions and others), surveillance, early warning, identification, and theater missile defense. They are also responsible for connectivity with elements of the Theater Air Control System (TACS) within a designated Area of Responsibility to include USAF, USN, USMC, USA, and allied assets. GTACS consists of a family of communication/electronics components. The requirements for funding are provided in the following categories:

a./b. **MODULAR CONTROL EQUIPMENT (MCE)/OPERATIONS MODULE (OM) INTERFACE KITS:** MCE mobile command and control (C2) centers link with existing (AWACS, Joint Stars, ABCCC (Airborne Battlefield Command and Control Center)) and planned sensors and other communication systems to provide the Joint Forces Air Component Commander (JFACC) an integrated air picture for C2 on the tactical battlefield. The MCE Pre-Planned Product Improvement Program (P3I), begun in FY93, increases MCE capability and includes among other things the Automated Air Tasking Order (AATO), and the OM interface kits to implement the MCE P3I via a field installable Time Compliance Technical Order (TCTO). Funding for 41 OM interface kits began in FY95. FY96 funding provided funds for equipment upgrades, Interim Contractor Support (ICS) and program support. FY97/98/99 funding continues ICS and MCE program support. Additionally, FY98/99 funding will complete the AF inventory objective for OM interface kits with procurement buys of 33 and 26 in each respective year.

c. **AN/TLQ-32 ANTI-RADIATION MISSILE (ARM) DECOY**: This is an ancillary capability to the AN/TPS-75 radar. FY96-99 funding provides for ICS during warranty period or organic depot capability is established.

d. **AN/TSC-147 JTIDS MODULE (JM) SYSTEM**: This is an ancillary capability to the MCE. FY97, FY 98, and FY 99 funding will provide for ICS until an organic depot capability is established.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. **MISSION PLANNING SYSTEM PROGRAM:** This program acquires the Air Force Mission Support System (AFMSS), the single unit-level mission planning system for aircrews of all current/future aircraft and associated weapons. AFMSS is used by aircrews in the squadron to plan combat/training missions and produce Combat Mission Folders (CMF) consisting of maps, charts, flight logs, turn point/target imagery, weapons delivery calculations and radar predictions, and to program the aircraft Data Transfer Device (DTD). A DTD is a magnetic storage media which contains avionics, navigation, fire control computer, communications and electronic combat information. The DTD is used to program aircraft computers in seconds vice the minutes it would take the pilot to manually enter mission data. Wartime sortie rates, sophisticated aircraft avionics, first look/no collateral damage target destruction, precision/autonomous guided munitions planning/delivery and the ability to defeat complex threat systems required a computer-aided mission planning system to maximize the combat effectiveness of all current and future aircraft/weapon systems. AFMSS interfaces with theater, command and joint command, control and intelligence systems/data bases, e.g., Contingency Theater Automated Planning System (CTAPS), Sentinel Byte, Constant Source, Wing Command and Control System (WCCS), and the Automated Weather Distribution System (AWDS), to provide pilots with the required operations, intelligence, weather, weapons and electronic combat information to plan combat missions.

The current inventory objectives for AFMSS are: (a) fixed workstations - 614; and (b) portable workstations - 2203. FY96-99 includes funding for program management administrative (PMA) requirements for technical, engineering, and acquisition support for the Mission Planning System and FY96-99 funds provide funding for engineering change proposals (ECP's). Additionally, FY96 funding procured 92 fixed AFMSS workstations and 24 portable workstations. FY97 funding will procure 62 fixed workstations and begin retrofit of 112 previously procured fixed workstations. Retrofit of these workstations will provide smaller footprint (requires less floor space) and/or faster computer processor units (CPUs). FY98 will procure 11 fixed workstations and 319 portables. FY99 continues AFMSS procurement with 13 fixed workstations and 307 portable workstations. Through FY99, a total of 565 fixed and 832 portable workstations will have been procured.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. **ANG/AFR**:

MISSION PLANNING

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	21		3.300		21		3.300
FY97	0		0		0		0
FY98	62		3.000		62		3.000
FY99	62		3.100		62		3.100

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME THEATER AIR CONTROL SYSTEM IMPROVEMENTS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. GTACS													
a. MODULAR CONTROL EQUIPMENT (MCE)	A	VAR	N/A	(7,285)	VAR	N/A	(3,164)	VAR	N/A	(2,974)	VAR	N/A	(3,052)
MCE EQUIPMENT				4,361									
ICS				500			500			500			500
PROGRAM SPT				2,424			2,664			2,474			2,552
b. OM INTERFACE KITS	A							33	575	19,000	26	660	17,162
c. AN/TLQ-32 ARM DECOY	A												
ICS		N/A	N/A	400	N/A	N/A	400	N/A	N/A	400	N/A	N/A	400
d. AN/TSC-147 JM SYSTEM	A												
ICS					N/A	N/A	585	N/A	N/A	500	N/A	N/A	773

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME THEATER AIR CONTROL SYSTEM IMPROVEMENTS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
2. MISSION PLANNING SYSTEM PROGRAM													
FIXED WORKSTNS	A	92	150	13,800	62	176	10912	11	181	1,991	13	186	2,418
RETROFIT FIXED WORKSTNS	A				112	33	3,696						
PORT. WORKSTNS	A	24	42	1,008				319	35	11,165	307	35	10,745
ECP'S				1,033			1,036			799			803
PROG/ENGR SPT				822			1,740			1,500			1,477
TOTAL				24,348			21,533			38,329			36,830

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. GTACS										
A. MCE EQUIPMENT										
FY96	MULTIPLE [1]	OPT/FFP [1]	AFMC/ESC	JUN - JUL 96	SEP - OCT 96	VAR	N/A			
B. OM INTERFACE KITS										
FY98	LITTON DATA SYS	OPT/FFP (ID/IQ) [2]	AFMC/SM-ALC	NOV 97	APR 98	33	575	YES	NO	
FY99	LITTON DATA SYS AGOURA HILLS, CA	OPT/FFP (ID/IQ) [2]	AFMC/SM-ALC	OCT 98	MAR 99	26	660	YES	NO	
C,D-ICS: NO ENTRY										
2. MISSION PLANNING SYSTEM PROG										
FIXED/RETROFIT FIXED WORKSTATIONS										
FY96	LOCKHEED SANDERS	OPT/CPFF [3]	AFMC/ESC	JUL 96	JAN 97	92	150			
FY97	LOCKHEED SANDERS	OPT/CPFF [3]	AFMC/ESC	APR 97	OCT 97	62	176	YES	NO	
FY98	LOCKHEED SANDERS	OPT/CPFF [3]	AFMC/ESC	DEC 97	JUL 98	11	181	YES	NO	
FY99	LOCKHEED SANDERS NASHUA,NH	OPT/CPFF [3]	AFMC/ESC	DEC 98	JUL 99	13	186	YES	NO	

D. REMARKS
1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. OPTION TO FY95 CONTRACT WITH LITTON DATA SYSTEMS FOR OM INTERFACE KITS.
3. AFMSS BLOCK 'C' PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19628-93-C-0016, DEC 92.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
PORTABLE WORKSTATIONS										
FY96	LOCKHEED SANDERS	OPT/CPFF [4]	AFMC/ESC	MAY 96	JAN 97	24	42			
FY98	LOCKHEED SANDERS	OPT/CPFF [4]	AFMC/ESC	DEC 97	JUN 98	319	35	YES	NO	
FY99	LOCKHEED SANDERS NASHUA, NH	OPT/CPFF [4]	AFMC/ESC	DEC 98	JUN 99	307	35	YES	NO	

D. REMARKS
1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. OPTION TO FY95 CONTRACT WITH LITTON DATA SYSTEMS FOR OM INTERFACE KITS.
3. AFMSS BLOCK 'C' PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19628-93-C-0016, DEC 92.

FY98/99 PB | P-1 ITEM NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS | DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERVIC	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97			CALENDAR YEAR 97											FISCAL YEAR 98			CALENDAR YEAR 98											FISCAL YEAR 99		CALENDAR YEAR 99								LATER
					96	96	96																																		
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1. GTACS																																									
B. OM INTER. KITS *																																									
FY95	AF	41	0	41					6	6	6	6	6	6	5																									
FY98	AF	33	0	33														C					3	3	3	3	3	3	3	3	3	3	3							
FY99	AF	26	0	26																									C					4	4	4	4	4	3	3	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH 0+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
* LITTON	2/MO		8/MO						
AGOURA HILLS, CA					INITIAL		1	5	6
					REORDER				

REMARKS:

P-1 SHOPPING LIST ITEM NO. 43

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PAGES EXHIBIT P-21

FY98/99 PB	P-1 ITEM NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SEC REV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97														FISCAL YEAR 98												FISCAL YEAR 99										LATER
					96	96	96	CALENDAR YEAR 97											CALENDAR YEAR 98												CALENDAR YEAR 99										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2. MISSION PLNG #																																								
FIXED																																								
FY96	AF	92	0	92				15	15	15	15	15	17																											0
FY97	AF	62	0	62							C						15	10	10	10	10	7																	0
FY98	AF	11	0	11															C						6	5														0
FY99	AF	13	0	13																										C						6	7		0
TOTAL - FIXED		178	0	178				15	15	15	15	15	17				15	10	10	10	20	7			6	5									6	7		0
PORT. WORKSTN																																							0
FY96	AF	24	0	24				12	12																														0
FY98	AF	319	0	319															C					53	53	53	53	53	54										0
FY99	AF	307	0	307																										C					59	59	59	59	71
TOTAL - PORTABLE		650	0	650				12	12															53	53	53	53	53	54					59	59	59	59	71
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH 0+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
# LOCKHEED SANDERS									
NASHUA, NH					INITIAL				
FIXED	1		50		REORDER				
PORT. WORKSTN	1		67						

REMARKS:

P-1 SHOPPING LIST ITEM NO. 43

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EXHIBIT P-21

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | | | THEATER AIR CONTROL SYSTEM IMPROVEMENTS | | | | | | | | | | DATE: | FEBRUARY 1997 | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	8.873	17.944	18.013	22.049	29.686	28.558	30.549	31.419

This is a continuing program for acquisition of meteorological and space environmental equipment needed to support worldwide missions of the Air Force (AF), the Army, and unified commands. Included are both fixed and transportable equipment needed to provide observing and forecasting services at the base or post and for field deployments; fixed hardware to provide centralized analyses, forecasts, and climatological assessments to decision-makers at all levels; and both fixed and tactical dedicated weather communications equipment to support weather services. Major programs include the Tactical Observing and Forecasting System (TOFS), which will provide a lightweight first-in combat forecasting capability; the Air Force Combat Climatology Center (AFCCC), which provides climatological support to DoD customers worldwide; a Tactical Weather Radar (TWR) acquisition that fills critical weather radar needs for resource protection worldwide; and the Space Weather Analysis and Forecast System (SWAFS), which gives operators the ability to effectively use space weather data.

1. **TACTICAL OBSERVING AND FORECASTING SYSTEM (TOFS):** TOFS is a system that will give deployed weather forces the capability to manipulate data and disseminate weather forecasts, advisories, warnings, briefings, and current weather information to Air Operations Centers, flying squadrons, air traffic control facilities, deployed weather teams, and Army elements located within theater of operations. TOFS has two components: the Tactical Forecast System (TFS) and the Manual Observing System (MOS).

The TFS is a small-lightweight deployable "first-in" combat weather forecast capability. The TFS will consist of government furnished software and commercial off-the-shelf hardware. The system will receive data via theater deployable communications, satellite communications, or will be able to operate in a stand-alone configuration receiving weather data through DoD weather dial-in services. The TFS will replicate most home station operations, enhancing operator proficiency and minimizing the need for special training. The TFS will replace large, error prone systems that have dissimilar components. The total Air Force requirement is 306. FY97 funds begin procurement of TFS with 65 systems to provide deployed commanders with reliable weather information impacting critical combat operations. FY98 funds 50 systems; FY99 funds 37 systems. One-hundred fifty-two systems will be procured through FY99.

MOS is a single-person portable observing system containing essential basic observing equipment with procurement beginning with FY95 funds. FY96, FY98 and FY99 funds continue the procurement toward the total Air Force requirement of 400. One-hundred sixty-nine systems will have been procured through FY99. Outyear funding continues the program.

2. **AIR FORCE COMBAT CLIMATOLOGY CENTER (AFCCC) REPLACEMENT (AFCCC-R):** The AFCCC-R (formerly called the Environmental Technical Applications Center Replacement (ETAC-R)) program will replace/upgrade the computer systems required at AFCCC (Scott AFB, IL), Operating Location-A (OL-A), AFCCC (Asheville, NC) and at Air Force Global Weather Center (AFGWC) (Offutt AFB, NE). AFCCC-R provides improved climatological support to DoD customers worldwide, providing the climatological support required by Air Force and Army planners, Air Force weapon systems developers, and defense modeling and simulation activities. Funding will provide life-cycle replacements for computer systems hardware and will enhance computer systems processing and storage capabilities needed to meet customer requirements. AFCCC mainframes will be replaced with open systems architecture. The program began in FY96 by

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

replacing AFCCC computer hardware/software. FY97 funds will replace OL-A computer hardware/software and upgrade the AFGWC centralized data base. FY98 funds complete procurement of hardware and contractor data and installation of the system.

3. **HYPERCHANNEL REPLACEMENT:** The HYPERchannel is a proprietary high capacity local area network (LAN) at the Air Force Global Weather Center (AFGWC) (Offutt AFB, NE) which provides data communications between AFGWC's mainframe computer systems and peripheral devices. Funding will procure the hardware and associated software to replace the existing computer-to-computer communications links that were installed in 1984 and are nearing the end of their technical life span. The network has become saturated with traffic, causing product delays. AFGWC risks network failure, severely impairing their ability to meet warfighter requirements for weather information. Further, the existing HYPERchannel does not have the capacity to meet the projected requirements for higher density data products (temperature, humidity, wind fields, and clouds) required to support Theater Battle Management (TBM) requirements. This is a FY97 procurement with no FY98-99 funds requested.

4. **CLOUD DEPICTION AND FORECAST SYSTEM (CDFS) II:** CDFS II provides hourly, high resolution, worldwide cloud analyses and forecasts to all operational forces worldwide. Funding purchases equipment to replace logistically unsupportable mainframe computers at the Air Force Global Weather Center (AFGWC) (Offutt AFB, NE) and will upgrade satellite data processing, cloud depiction, and classified weather support functions for operational commanders and national programs, meeting a need that cannot be met with the current system. FY98 funds begin the procurement by buying interface and cloud analysis hardware and associated software. FY99 funds will procure the cloud forecast hardware/software plus the network and integration required for the system. Outyear funding continues the program.

5. **GLOBAL THEATER WEATHER ANALYSIS AND PREDICTION SYSTEM (GTWAPS):** GTWAPS replaces the computer hardware and software that comprise the Advanced Weather Analysis and Prediction System (AWAPS) located at AFGWC (Offutt AFB, NE). The primary purpose of GTWAPS is to improve support to the warfighter by incorporating an advanced computing platform, allowances for capacity expansion, state-of-the-science theater-scale analysis and forecast software, the capability to ingest and use classified observations, and forecast products consistent with Theater Battle Management (TBM) requirements. FY98 funds the total hardware procurement upgrade.

6. **SPACE WEATHER ANALYSIS AND FORECAST SYSTEM (SWAFS):** SWAFS will replace the aging and logistically unsupportable hardware and software currently located at the 50th Weather Squadron (50WS) (Peterson AFB, CO), and will transition the proprietary space weather system to an open system environment. The 50WS is unique--DoD's only center with equipment and expertise for providing observations, analyses, and forecasts of the space environment in support of DoD and National Programs. The upgrade will replace four separate computer clusters over a three-year time-frame while sustaining continuous operational availability during this intensive effort. It will integrate near term Space Environmental Technology Transition (SETT) models, currently under

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

development, and future advanced-physics SETT models into the operational system. SWAFS modernizes 50WS and accomplishes the following: the transition from the Automatic Digital Information Network (AUTODIN) to the Defense Message System (DMS); compliance with DoD information technology standards such as the Defense Information Infrastructure (DII) Common Operating Environment (COE); and interoperability with Global Command and Control System (GCCS). FY98 funds starts the procurement with additional computer processing and disk storage capacity to support solar maximum. FY99 funds will replace computer clusters and re-host software. Outyear funding continues the program.

7. **SATELLITE DATA HANDLING SYSTEM (SDHS):** SDHS is a fixed suite of forecaster workstations within Air Force Global Weather Center (AFGWC) which provides the global, large scale satellite data information to DoD customers worldwide. It incorporates weather satellite imagery and weather observations to allow forecasters to produce analysis and forecast weather products for worldwide DoD missions. SDHS is the key tool forecasters use to produce tailored, highly detailed mission planning and operational forecasts for routine, contingency, and classified DoD operations. The current SDHS system does not have the capability to ingest satellite data from foreign sources, thus restricting access to a readily available worldwide weather data base. This upgrade will allow SDHS to receive, store, archive, and process new sources of foreign geostationary satellite data, which will be used to tailor operational forecasts for warfighters worldwide. FY98 funds the computer hardware required for this effort and completes the upgrade.

8. **TACTICAL WEATHER RADAR (TWR):** This program supports worldwide military operations by providing tactical/deployable Doppler weather radar capability, replacing existing radars at deployable locations and at fixed locations overseas. Current deployable (TPS-68) and fixed weather radars (FPQ-21, FPS-77) have been declared logistically unsupportable and no longer meet operational needs. The TWR provides the combat forces a modern, Doppler radar technology and will allow connectivity to programmed weather forecast systems for the distribution of severe weather products to standard C4I systems. FY98 funds begin procurement with the purchase of two radars for Operational Test and Evaluation (OT&E)--one tactical and one fixed. FY99 dollars purchase three tactical radars. Outyear funding continues the program, with a total inventory objective of seven tactical, one training, and 11 fixed radars.

9. **INTERIM TACTICAL WEATHER RADAR (ITWR):** This is a program for acquisition of ITWRs to meet immediate contingency weather support requirements in Southwest Asia and Bosnia. FY96 funds three systems for Southwest Asia and a training system to be located at the Combat Weather Center, Hurlburt Field, FL. FY96 procurement completes the Southwest Asia buy.

10. **AUTOMATED SURFACE OBSERVING SYSTEMS (ASOS):** This program provides limited automated weather observations at ranges, unattended airfields, and after duty hours at limited duty weather stations at sites in the continental US. The funding is a congressional add to purchase 12 systems in FY97. FY97 funding completes the 12 system buy.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

11. **ANG/AFR:**

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	-		0		-		0
FY97	-		.082		-		0
FY98	-		.366		-		0
FY99	-		.8		-		0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	44	18	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. TOFS	A	VAR	N/A	(761)	VAR	N/A	(4,965)	VAR	N/A	(4,324)	VAR	N/A	(3,009)
TFS													
PRIME MISSION EQ					65	62	4,030	50	62	3,100	37	62	2,294
TECHNICAL DATA							480			357			289
ENG/PROGRAM MGT							455			367			255
MOS													
PRIME MISSION EQ		84	9	761				55	9	500	19	9	171
2. AFCCC-R	A	VAR	N/A	(6,247)	VAR	N/A	(6,198)	VAR	N/A	(2,493)			
PRIME MISSION EQ				4,972			4,219			1,426			
TECHNICAL DATA				1,275			1,239			201			
ENG/PROG MGT							740			866			
3. HYPERCHANNEL	A				VAR	N/A	(2,781)						
REPLACEMENT													
PRIME MISSION EQ							1,975						
TECHNICAL DATA							332						
ENG/PROG MGT							474						

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	44	19	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. CDFS-II	A							VAR	N/A	(4,400)	VAR	N/A	(7,570)
PRIME MISSION EQ										3,781			5,761
ENG/PROG MGT										619			1,809
5. GTWAPS	A							VAR	N/A	(3,796)			
PRIME MISSION EQ										3,020			
TECHNICAL DATA										276			
ENG/PROG MGT										500			
6. SWAFS	A							VAR	N/A	(1,500)	VAR	N/A	(10,093)
PRIME MISSION EQ										846			9,393
TECHNICAL DATA										110			180
ENG/PROG MGT										544			520
7. SDHS	A							VAR	N/A	(600)			
PRIME MISSION EQ										550			
ENG/PROG MGT										50			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
8. TWR	A							VAR	N/A	(900)			(1,377)
PRIME MISSION EQ								2	400	800	VAR	N/A	1,200
ENG/PROG MGT										100	3	400	177
9. ITWR													
PRIME MISSION EQ	A	4	466	(1,865)									
10. ASOS					VAR	N/A	(4,000)						
PRIME MiSSION EQ	A				12	291	3,492						
ENG/PROG MGT							508						
TOTAL				8,873			17,944			18,013			22,049

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	44	21	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: WEATHER OBSERVATION/FORECAST

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. TOFS										
TFS										
FY97	LOCKHEED MARTIN	OPT/CPFF [1]	AFMC/ESC	JAN 97	APR 97	65	62	YES	NO	
FY98	LOCKHEED MARTIN	OPT/CPFF [1]	AFMC/ESC	JAN 98	APR 98	50	62	YES	NO	
FY99	LOCKHEED MARTIN COLORADO SP, CO	OPT/CPFF [1]	AFMC/ESC	JAN 99	APR 99	37	62	YES	NO	
MOS										
FY96	LITTON	C/FFP	HQ AWS	AUG 96	JAN 97	84	9			
FY98	LITTON	OPT/FFP	HQ AWS	OCT 97	JAN 98	55	9	YES	NO	
FY99	LITTON WINDSOR, CT	OPT/FFP	HQ AWS	OCT 98	JAN 99	19	9	YES	NO	
2. AFCCC-R										
FY96	HUGHES CORP	OPT/FPIF [2]	AFMC/ESC	AUG 96	NOV 96	VAR	N/A [3]			
FY97	HUGHES CORP	OPT/FPIF [2]	AFMC/ESC	OCT 96	JAN 97	VAR	N/A [3]	YES	NO	
FY98	HUGHES CORP OMAHA, NE	OPT/FPIF [2]	AFMC/ESC	OCT 97	NOV 98	VAR	N/A [3]	YES	NO	
3. HYPERCHANNEL REPLACEMENT										
FY97	UNKNOWN	C/CPFF	HQ AWS	FEB97	JUN 97	VAR	N/A [3]	NO	YES	OCT 96

D. REMARKS

1. OPTION TO EXISTING STANDARD AIR FORCE WORK STATION CONTRACT.
2. OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
3. UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
4. OPTION TO BASIC CDFS II CONTRACT FOR HARDWARE, SUPPORT AND SERVICES AWARDED IN JUN 95.
5. SDHS SUPPORT & SERVICES CONTRACT RECOMPETED IN NOV 96. FY98 OPAF FUNDING WILL BE EXECUTED AS A TASK ORDER ON THIS CONTRACT.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: WEATHER OBSERVATION/FORECAST

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. CDFS II										
FY98	STERLING CORP	OPT/CPAF [4]	AFMC/SMC	OCT 97	SEP 99	VAR	N/A [3]	YES	NO	
FY99	STERLING CORP BELLVUE, NE	OPT/CPAF [4]	AFMC/SMC	OCT 98	SEP 00	VAR	N/A [3]	YES	NO	
5. GTWAPS										
FY98	UNKNOWN	C/FPIF	AFMC/ESC	JUL 98	NOV 99	VAR	N/A [3]	NO	YES	SEP 97
6. SWAFS										
FY98	UNKNOWN	C/FPIF	AFMC/ESC	NOV 97	SEP 98	VAR	N/A [3]	NO	YES	MAY 97
FY99	UNKNOWN	OPT/FPIF	AFMC/ESC	OCT 98	SEP 99	VAR	N/A [3]	NO	YES	MAY 97
7. SDHS										
FY98	STERLING CORP BELLVUE, NE	OPT/CPAF [5]	HQ AWS	OCT 97	APR 98	VAR	N/A [3]	YES	NO	
8. TWR										
FY98	UNKNOWN	C/FFP	AFMC/ESC	JUN 98	DEC 98	2	400	NO	YES	JAN 98
FY99	UNKNOWN	OPT/FFP	AFMC/ESC	OCT 98	JUN 99	3	400	NO	YES	JAN 98
9. ITWR FY96	GSA/ KAVOURAS, INC MINNEAPOLIS MN	MIPR/OPT/ FFP	HQ AWS	AUG 96	JAN 97	4	466			
10. ASOS FY97	AAI HUNT VALLEY, MD	MIPR/OPT/ FFP	HQ AWS	OCT 96	JUL 97	12	291			

D. REMARKS

1. OPTION TO EXISTING STANDARD AIR FORCE WORK STATION CONTRACT.
2. OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
3. UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
4. OPTION TO BASIC CDFS II CONTRACT FOR HARDWARE, SUPPORT AND SERVICES AWARDED IN JUN 95.
5. SDHS SUPPORT & SERVICES CONTRACT RECOMPETED IN NOV 96. FY98 OPAF FUNDING WILL BE EXECUTED AS A TASK ORDER ON THIS CONTRACT.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE STRATEGIC COMMAND AND CONTROL				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	38.290	22.680	20.505	10.898	18.671	20.410	13.888	10.447

This program procures mission critical communications and computer systems required to ensure that the President of the United States has the capability for effective command and control of the Twin Triad (nuclear and conventional). It procures hardware replacements/upgrades to maintain the only computer system that produces the nation's nuclear war plan, and performs conventional/contingency war planning. In addition, it provides computer systems essential for the B-2 weapon system to maintain mission ready status.

1. **STRATEGIC WAR PLANNING SYSTEM (SWPS):** This funding continues the program that maintains a planned, phased upgrade of the Strategic War Planning System. SWPS is one of the DoD's most complex, classified computer systems and the only system that produces the Single Integrated Operational Plan (SIOP) which targets every strategic nuclear warhead in the US inventory. The system performs tasks ranging from running threat scenarios on mainframes to providing data for developing bomber aircraft crews strike mission data in digital and hard copy formats. Production/maintenance of the SIOP is performed on the TRIAD Computer System (TRICOMS), which consists of two mainframe computers and associated equipment. FY96 funding provided further upgrades to TRICOMS servers, workstations, processors, printers and plotting equipment. FY97 funds procured additional required servers, storage devices and associated support equipment. In FY98 and FY99, the servers and associated peripheral equipment needed to complete the transition from a mainframe to a client-server environment will be purchased. Additionally, replacements for outdated PCs and workstations will be bought.

2. **B-2 SUPPORT:** The B-2 weapon system relies heavily on computers and communications equipment to meet its operational/design capability. These funds support the following B-2 dedicated systems:

a. **ENGINEERING DATA SYSTEM (EDS):** EDS provides essential computers (engineering workstation computers, printers, disk drives, tape drives, etc.) along with communications equipment necessary for on-line access to all available B-2 weapon system databases. The data available will consist of engineering analysis/design and manufacturing data, tool drawings, and specification software milestone documentation. Access will be provided to Langley AFB, VA, Whiteman AFB, MO, Wright-Patterson AFB, OH, Oklahoma City ALC, other ALC's and Northrup Grumman Corp in CA. FY96/97 funds provided upgrades to these locations through purchase of commercial off-the-shelf (COTS) hardware (workstations, scanners, plotters, printers) and associated software. FY98/99 funds will be used to complete the migration of equipment replacement on the expanded unclassified net.

b. **WEAPON SYSTEM SUPPORT CENTER (WSSC):** The WSSC provides the hardware means for the B-2 engineering team to perform software maintenance on all operational flight programs for the B-2 weapon system and aircraft hardware and software integration for such elements as flight controls, flight management, navigation systems, weapons, and defensive systems management. WSSC will be used by Oklahoma City ALC to provide organic software support and integration of the B-2 weapon system. The Software Development Station (SDS) is part of the WSSC and consists of a digital virtual accessing extended (VAX) computer located at Tinker AFB, OK; it assists engineers in analyzing and designing operational flight programs. FY96/97 funds procured

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE STRATEGIC COMMAND AND CONTROL				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

upgrades/enhancements/expansion of equipment (computer hardware, terminals, printers, drivers, workstations, and associated software) for the SDS. This increased capability will handle additional workload and preclude system saturation. FY98 funds will procure computer upgrades and enhancements to existing computer equipment, i.e., computer hardware, terminals, printers, disk and tape drives, workstations, commercial software, etc. The funds are required for hardware upgrades and enhancements to existing software laboratories relocated as part of the long term software support effort. FY99 funds will continue equipment upgrades to the laboratories.

c. **ONBOARD TEST SYSTEM (OBTS) SWITCHING EQUIPMENT**: Funding provides critical electronic integration for the onboard test system (OBTS) ground processor (OGP). OBTS will allow technicians computer access to vital fault data obtained during aircraft flights. FY96-99 funding continues procurement for replacement computers and associated support equipment for the OBTS system.

d. **WHITEMAN AFB SUPPORT**: FY96 funds procured various computerized processing systems in support of B-2 operations at Whiteman AFB, MO. No FY98/99 funding requested.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME STRATEGIC COMMAND AND CONTROL	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. SWPS													
TRICOMS	A	VAR	N/A	1,779	VAR	N/A	3,666	VAR	N/A	9,617	VAR	N/A	4,614
2. B-2 SUPPORT		VAR	N/A	(36,511)	VAR	N/A	(19,014)	VAR	N/A	(10,888)	VAR	N/A	(6,284)
a. EDS	A			3,280			1,690			5,000			1,490
b. WSSC	A			9,720			7,985			5,851			4,757
c. OBTS SWITCHING EQ	A			639			34			37			37
d. WHITEMAN AFB SUPT	A			256									
e. ITDS				22,616			9,305						
TOTAL				38,290			22,680			20,505			10,898

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: STRATEGIC COMMAND AND CONTROL

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. STRATEGIC WAR PLANNING SYSTEM TRICOMS										
FY96	GENERAL DYNAMICS	OPT/FP[1]	HQ STRATCOM	DEC 95	MAR 96	VAR	N/A[2]			
FY97	GENERAL DYNAMICS	OPT/FP[1]	HQ STRATCOM	OCT 96	FEB 97	VAR	N/A[2]			
FY98	GENERAL DYNAMICS	OPT/FP[1]	HQ STRATCOM	DEC 97	FEB 98	VAR	N/A[2]	YES	NO	
FY99	GENERAL DYNAMICS BELLEVUE, NE	OPT/FP[1]	HQ STRATCOM	DEC 98	FEB 99	VAR	N/A[2]	YES	NO	
2. B-2 SUPPORT										
A. ENGINEERING DATA SYSTEM (EDS)										
FY96	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	APR 96	MAY 96	VAR	N/A[2]			
FY97	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	JAN 97	APR 97	VAR	N/A[2]			
FY98	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	OCT 97	JAN 98	VAR	N/A[2]	YES	NO	
FY99	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	MAR 99	APR 99	VAR	N/A[2]	YES	NO	
B. WPN SYS SUPPORT CENTER (WSSC)										
FY96	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	JUN 96	AUG 96	VAR	N/A[2]			
FY97	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	MAR 97	JUL 97	VAR	N/A[2]	YES	NO	
FY98	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	MAR 98	JUL 98	VAR	N/A[2]	YES	NO	
FY99	MULTIPLE	OPT/FP[3]	AFMC/OC-ALC	MAR 99	JUL 99	VAR	N/A[2]	YES	NO	

D. REMARKS
1. Option to July 89 competitive contract awarded to General Dynamics.
2. Varying unit costs due to multiple types of equipment being procured.
3. Options to numerous acquisitions off the GSA schedule. Award/delivery dates reflect date of first award and delivery.

P-1 SHOPP LIST ITEM NO. 45 | PAGE NO. 27 | Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: STRATEGIC COMMAND AND CONTROL

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
C. OBTS SWITCHING EQ										
FY96	MULTIPLE	OPT/FP[3]	HQ ACC	APR 96	JUL 96	VAR	N/A [2]			
FY97	MULTIPLE	OPT/FP[3]	HQ ACC	JAN 97	APR 97	VAR	N/A [2]			
FY98	MULTIPLE	OPT/FP[3]	HQ ACC	JAN 98	APR 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP[3]	HQ ACC	JAN 99	APR 99	VAR	N/A [2]	YES	NO	
E. WHITEMAN AFB SUPPORT	MULTIPLE	OPT/FP[3]	HQ ACC	AUG 96	OCT 96	VAR	N/A [2]			

D. REMARKS
1. Option to July 89 competitive contract awarded to General Dynamics.
2. Varying unit costs due to multiple types of equipment being procured.
3. Options to numerous acquisitions off the GSA schedule. Award/delivery dates reflect date of first award and delivery.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CHEYENNE MOUNTAIN COMPLEX				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	8.607	3.083	.737	.920	.989	1.116	.644	.720

This program supports acquisition for Cheyenne Mountain Complex (CMC) missions. It includes both the current suite of equipment and the new Cheyenne Mountain Upgrade (CMU) suite. CMU was established to upgrade and modernize the software, computer resources and related communications for CMC-unique command and control (C2) applications. The CMC program: (1) provides real-time processing and display of missile warning and force management information to the CMC and the Alternate Missile Warning Center, and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) provides communications services for all communications into or out of CMC and between CMC mission processors; (3) replaces the processors and display systems supporting the CMC Air Defense Operations Center (ADOC), North American Aerospace Defense (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) provides an effective command post to support NORAD's multiple warning and defense missions; (5) automates the manual handling of space surveillance and warning messages; (6) provides communications interface processors at all missile warning sensors and command centers; and (7) provides an alternate missile warning center.. The program also provides Air Force Space Command (AFSPC) with funding needed to acquire communications and computer equipment in support of US Space Command (USSPACECOM) command centers and sensor systems; AFSPC Base Level Switching systems; the Defense Message System (DMS) and Base Network Control Center (BNCC); USSPACECOM CINC Mobile Alternate Headquarters (CMAH); and the Cheyenne Mountain Training System (CMTS).

1. **CHEYENNE MOUNTAIN UPGRADE (CMU):** FY96 funding procured missile warning, air warning, and space warning hardware and Interim Contractor Support (ICS). FY97 provides for continued ICS for Granite Sentry hardware maintenance until user organic capability is in place in 1ST Qtr/FY98. No FY98/99 funding is requested.

2. **CINC MOBILE ALTERNATE HEADQUARTERS (CMAH):** The CMAH program supports acquisition for NORAD/USSPACECOM Mobile Consolidated Command Center (MCCC) missions. The MCCC provides mobile, austere capabilities to execute NORAD/USSPACECOM missions in the event the Cheyenne Mountain Complex becomes inoperable. The Mobile Command and Control System (MCCS) is the acquisition and integration of automated data processing equipment supporting the MCCC. The MCCS provides a core communication and mission support processing system and consists of an integrated mixture of government-furnished equipment (GFE) and commercial data processing and communications equipment, housed in transportable shelters, and interconnected through a Modular Building Block (MBB) databus architecture. FY98-99 will provide funding for support of the Defense Message System (DMS), Global Command and Control System (GCCS), Migration Integrated Database (MIDB) and Survivable Secure Communications Network (SSCN). It will also upgrade current projects such as the Nuclear Planning and Execution System (NPES), Ground Nuclear Detonation Detection System Terminal (GNT), Communications Support Processor (CSP), and Modular Architecture for the Exchange of Intelligence (MAXI).

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CHEYENNE MOUNTAIN COMPLEX				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. **TACTICAL WARNING AND ATTACK ASSESSMENT (TW/AA) COMMUNICATIONS NETWORK AND AFSPC TELECOMMUNICATIONS:** This program supports AFSPC-wide acquisition of communications equipment for downward-directed programs and command initiatives. This equipment includes (1) smart multiplexers, (2) base cable plants and fiber optics multiplexers, (3) phone system memory upgrades and administrative phone systems not being replaced by the Combat Information Transport System (CITS), (4) Defense Information System Network (DISN) hardware support, (5) administrative communications support for Peterson AFB, CO and Falcon AFB, CO, and (6) command-unique communications equipment to support the Defense Message System (DMS) architecture. FY96-97 funding procures communications equipment for downward-directed and command initiatives, procures communications capabilty for Missile/Space Operations Centers (MOC/SOC) Command and Control Center, and provides funding for DISN and other bulk-bandwidth initiatives. Additionally, FY96 funding procured administrative telephone switch expansions at Falcon and Peterson AFBs. FY98/99 will provide funding for base infrastructure requirements at multiple AFSPC sites, and supports non-core base infrastructure.

4. **CHEYENNE MOUNTAIN TRAINING SYSTEM (CMTS):** The CMTS is a full mission simulator that provides an integrated capability to support initial and unit qualification training, on-going crew proficiency training, and exercises in missile warning, space control, air defense and command center operations. FY96 funding procured the final phase of space training hardware. No FY98/99 funding requested.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	CHEYENNE MOUNTAIN COMPLEX	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. CHEYENNE MOUNTAIN UPGRADE (CMU)				(3,372)									
HARDWARE	A	VAR	N/A	1,619									
ICS	A		N/A	1,753		N/A	2,620						
2. CINC MOBILE ALTERNATE HQ (CMAH)	A							VAR	N/A	464	VAR	N/A	461
3. TW/AA COMM NETWORK & AFSPC TELECOMMUNICATIONS	A	VAR	N/A	2,667	VAR	N/A	463	VAR	N/A	273	VAR	N/A	459
4. CHEYENNE MTN TRAINING SYSTEM (CMTS)	A	VAR	N/A	2,568									
TOTAL				8,607			3,083			737			920

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	46	31	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. CMU UPGRADE HARDWARE										
FY96	HARRIS CORP RESTON, VA	SS/CPAF	AFMC/ESC	AUG 96	NOV 96	VAR	N/A [2]			
FY96	LOCKHEED-MARTIN COLORADO SPRINGS, CO	OPT/FFP [1]	AFMC/ESC	NOV 96	MAR 97	VAR	N/A [2]			
FY96	LORAL COLORADO SPRINGS, CO	OPT/CPIF/AF [1]	AFMC/ESC	NOV 96	JUN 97	VAR	N/A [2]			
FY96	GTE NEEDHAM, MA	OPT/CPIF [1]	AFMC/ESC	NOV 96	MAR 97	VAR	N/A [2]			
FY96	TRW CARSON, CA	OPT/FPIF [1]	AFMC/ESC	NOV 96	MAR 97	VAR	N/A [2]			
2. CINC MOBILE ALTERNATE HQ (CMAH)										
FY98	MULTIPLE [3]	OPT/FP [4]	AFSPC	FEB 98 [5]	JUL 98 [5]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [3]	OPT/FP [4]	AFSPC	FEB 99 [5]	JUL 99 [5]	VAR	N/A [2]	YES	NO	

D. REMARKS

1. OPTIONS TO VARIOUS AFMC/ESC CONTRACTS AWARDED IN SUPPORT OF CMU.
2. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED RESULTS IN VARYING UNIT COSTS.
3. CONTRACTOR EXAMPLES: INEL CORP, IDAHO FALLS, ID; MARTIN MARIETTA CORP, DENVER, CO; DEPT OF ENERGY, SANDIA NATIONAL LABORATORIES.
4. OPTIONS TO VARIOUS DEFENSE ELECTRONICS COMMERCIAL COMMUNICATIONS OFFICE (DECCO) COMPETITIVE FIXED PRICE CONTRACTS AWARDED IN 1989.
5. AWARD AND DELIVERY DATES REPRESENT DATE OF FIRST CONTRACT AWARD AND FIRST DELIVERY.
6. OPTION TO PRIOR YEAR FIRM FIXED PRICE CONTRACT AT ELECTRONIC SYSTEMS CENTER, HANSCOM AFB MA, WITH LORAL SYSTEMS, COLORADO SPRINGS, CO.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE CHEYENNE MOUNTAIN COMPLEX

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. TW/AA COMM NETWORK AND AFSPC TELECOMMUNICATIONS										
FY96	MULTIPLE [3]	OPT/FP [4]	HQ AFSPC	FEB 96 [5]	JUL 96 [5]	VAR	N/A [2]			
FY97	MULTIPLE [3]	OPT/FP [4]	HQ AFSPC	MAR 97 [5]	AUG 97 [5]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE [3]	OPT/FP [4]	HQ AFSPC	MAR 98 [5]	AUG 98 [5]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [3]	OPT/FP [4]	HQ AFSPC	MAR 99 [5]	AUG 99 [5]	VAR	N/A [2]	YES	NO	
4. CHEYENNE MTN TRAINING SYS (CMTS)										
FY96	LORAL SYSTEMS COLORADO SP, CO	OPTION [6]	HQ AFSPC	DEC 95	MAY 96	VAR	N/A [2]			

D. REMARKS

1. OPTIONS TO VARIOUS AFMC/ESC CONTRACTS AWARDED IN SUPPORT OF CMU.
2. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED RESULTS IN VARYING UNIT COSTS.
3. CONTRACTOR EXAMPLES: INEL CORP, IDAHO FALLS, ID; MARTIN MARIETTA CORP, DENVER, CO; DEPT OF ENERGY, SANDIA NATIONAL LABORATORIES.
4. OPTIONS TO VARIOUS DEFENSE ELECTRONICS COMMERCIAL COMMUNICATIONS OFFICE (DECCO) COMPETITIVE FIXED PRICE CONTRACTS AWARDED IN 1989.
5. AWARD AND DELIVERY DATES REPRESENT DATE OF FIRST CONTRACT AWARD AND FIRST DELIVERY.
6. OPTION TO PRIOR YEAR FIRM FIXED PRICE CONTRACT AT ELECTRONIC SYSTEMS CENTER, HANSCOM AFB MA, WITH LORAL SYSTEMS, COLORADO SPRINGS, CO.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TACTICAL SIGINT SUPPORT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.838	5.817	4.114	4.735				

Note: Outyear funding for this program is classified. Funding will be provided on a need-to-know basis.

The Tactical SIGINT program procures a variety of communications-electronics equipment and support necessary to operate and maintain tactical cryptologic programs involved in ground-based operations in the European and Pacific theaters as well as CONUS contingency and training programs. Funding also procures equipment to support ground processing functions associated with airborne operations.

TACTICAL INFORMATION BROADCAST SERVICE (TIBS) IMPROVEMENTS: This is a continuing acquisition program which procures equipment, associated software and peripherals to support the fielding of multi-sensor, multi-source intelligence correlation capabilities for TIBS. TIBS is a secret collateral level, near real-time, intelligence broadcast that provides situational awareness and combat information in graphics format to multi-service tactical customers worldwide. TIBS performs combat correlation functions for aggregation of internally derived information from indigenous collection assets, as well as multiple external intelligence sources. TIBS is able to exchange graphics-based near real-time information with Air Force tactical intelligence platforms. TIBS provides dissemination of highly perishable threat or target information to a theater or Area of Operation (AOR) audience. HQ Air Intelligence Agency (AIA) TIBS Special Management Office (TIBS SMO) is the program manager for the TIBS Program. As such, the TIBS SMO sets acquisition requirements for TIBS to include the following: software and hardware upgrades for the worldwide network architecture, new service (Army, Navy, Air Force) changes, documentation and equipment for training. The TIBS SMO will acquire TIBS equipment through the BIG SAFARI program, which is managed by Air Force Materiel Command. FY96 funding procured computers and associated equipment to satisfy joint requirements for interoperability for the TIBS system and procures the equipment required to use TIBS for exercise scenario generation. FY97 begins funding for procurement and integration of equipment and associated software to fuse intelligence data obtained from multiple sources to improve TIBS ability to provide an integrated intelligence picture to tactical users. FY98 funds will continue intelligence fusion efforts and add error code correction features. FY99 will begin funding for a multi-level security capability for TIBS.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TACTICAL SIGINT SUPPORT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
TIBS IMPROVEMENTS	A	VAR	N/A	(5,838)	VAR	N/A	(5,817)	VAR	N/A	(4,114)	VAR	N/A	(4735))
COMPUTER EQUIPMENT		VAR	N/A	3,000	VAR	N/A	3,000	VAR	N/A	2,400	VAR	N/A	3,000
DOCUMENTATION				800			800			650			700
PROGRAM SUPPORT				2,038			2,017			1,064			1,035
TOTAL				5,838			5,817			4,114			4,735

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TACTICAL SIGINT SUPPORT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TIBS IMPROVEMENTS										
COMPUTER EQUIPMENT										
FY96	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645/MATS	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	

D. REMARKS:
1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF COMPUTER EQUIPMENT/UPGRADES.
2. MULTIPLE ELEMENTS OF UPGRADES AND REPLACEMENTS CAUSE UNIT COSTS TO VARY BY YEAR.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	47	36	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	30.860	31.167	36.105	32.410	37.105	37.626	31.844	31.997

This program provides for new acquisitions and equipment additions to government-owned computer systems. Items to be purchased are commercially available automatic data processing equipment (ADPE) and include: Desktop computers and associated peripheral devices (keyboards, monitors, printers); file servers; local area networks; gateways; and routers, all from various manufacturers and third-party vendors for management and mission support applications. New systems and system upgrades directly support operational mission requirements. All programs in this line, through the use of specific hardware and software tools, will improve the quality, increase war fighting capability and enhance productivity in support of weapon systems. Funds will support a standard system infrastructure, allowing major commands to purchase computer equipment capabilities and quality networking.

11th SUPPORT WING (11SPTW)

1. **HEADQUARTERS INFORMATION TECHNOLOGY (IT) INVESTMENT:** FY96-99 funds in this program provide significant infrastructure improvements in many ADPE categories at Headquarters, United States Air Force (HQ USAF). HQ USAF personnel, including the Secretary of the Air Force and the Chief of Staff of the Air Force, will receive office automation systems and computer networks critical to supporting their mission of issuing Air Force directives and coordinating with DoD and the Joint Staff. HQ USAF personnel will receive computer systems which meet increased office automation needs. They will be afforded high quality, high speed connections to classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network (SIPRNET). HQ USAF personnel will also receive centralized services such as business-quality electronic mail and network management through programs such as Network File Sharing System. Other investments include World Wide Web services, remote computing services, and video teleconferencing. Lack of funding in this program will prevent the Air Force Pentagon Communications Agency (AFPCA) from providing proactive solutions to ADPE requirements. A lack of procurement funding in this area will greatly increase the amount of operations and maintenance funding needed to keep HQ USAF in business using substandard equipment.

2. **HEADQUARTERS MAINFRAME SYSTEMS SUPPORT:** Funds in this program will allow the Air Force Pentagon Communications Agency to maintain a viable mainframe computer environment at HQ USAF. FY96 funds replaced aging mainframe central processing units (CPUs) in the Pentagon's Consolidated Computer Facility (CCF) data center which greatly increased data processing speed. FY97 funds provide upgrades to the operating systems and the communications gateways to other systems. FY98 funds will allow the addition of Disk Array Storage Device (DASD) units and the purchase of a magnetic tape silo for the CCF. This hardware will make mainframe data and applications more readily available to HQ USAF members. FY99 funds provide for the upgrade of the mainframe application software running on these systems. These new operating systems provide greater interoperability with other Pentagon systems and networks. When installed, these combined systems will provide faster communications, more memory, more storage space, and faster processing. They will also require less floor space and fewer operating expenses. A lack of procurement funding in this program will require a greater expenditure of operations

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

and maintenance funds to maintain the aging mainframe. Failure to improve existing mainframe systems at HQ USAF will jeopardize the sustainment of mission-critical Air Force data.

3. **SECRETARY OF THE AIR FORCE FINANCIAL MANAGEMENT (SAF/FM) FINANCIAL INFORMATION RESOURCES SYSTEM (FIRST):** Funds in this program will provide for the modernization of the budgeting systems throughout the entire Air Force. Systems such as the Automated Budget Interactive Data Environment System (ABIDES), the Command Budget Accounting System (CBAS), and MicroBAS will be replaced by FIRST. FY98 funds will purchase hardware to be deployed as a central system in the Pentagon. In the future, geographically-dispersed Air Force agencies and major commands will connect to the system. FIRST will modernize hardware and software to provide interaction among budget, accounting, and other functionally-related environments, including program data cost modeling, Congressional tracking, and execution analysis. A lack of procurement funding in this program will prevent the Air Force from fixing an antiquated system for planning, programming, budgeting, and executing fiscal authority. FY98 funds will allow the procurement of the hardware necessary to support this system in the Pentagon. No FY99 funds requested.

4. **EXECUTIVE AGENT (EA) FOR AIR & SPACE NATURAL ENVIRONMENT:** The EA, appointed by the Under Secretary of Defense for Acquisition and Technology, is the DoD technical advisor on all modeling & simulation issues related to air and space natural environment, e.g., weather and weather effects. The EA will incorporate accurate, timely natural environment representations (models) into Service and joint systems used for providing improved acquisition decisions, theater/campaign analyses, aircrew/battlestaff training, and real-world mission planning/rehearsal. Specifically, EA gathers and validates requirements from joint programs and coordinates DoD Science and Technology efforts necessary to satisfy them. This process reduces duplicative and stovepipe efforts within the Services and Agencies. FY99 funds will purchase the workstations and peripheral equipment needed to fulfill requirements for technology evaluation and integration.

AIR COMBAT COMMAND (ACC)

5. **BASE OPERATIONS:** FY96-99 funds will provide additional graphics systems and workstations in support of the Part Task Trainer (PTT) program. Funding provides for the purchase of hardware for in-house construction of aircrew PTTs. In-house construction of these trainers will allow for a more timely and cost-effective response to training requirements than having private industry produce small numbers of low-cost training devices.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

AIR EDUCATION AND TRAINING COMMAND (AETC)

6. **ADVANCED TRAINING SYSTEM (ATS):** ATS provides for a broad set of automation tools to allow technical and medical service training wings to do their jobs more efficiently and effectively. These funds procure desktop computers, multi-user computer systems, local area networks (LANS), printers, scanners, and associated peripheral equipment to equip six technical training groups (TTG) and the headquarters. AETC incurred a personnel reduction of 323 positions to fund the implementation of ATS. FY96 and prior year funds provided 1000 desktop computers, associated multi-user computers and peripherals, and LANs toward an Initial Operational Capability (IOC) at the 81 TTG, Keesler AFB, MS and provided computer equipment and LANs toward IOC at the 82nd, 782nd, and 882nd TTGs at Sheppard AFB, TX. FY97-99 funds will continue procurement of computer hardware and LANS for TTGs at Lackland AFB, TX and Vandenberg AFB, CA.

7. **AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) COMPUTER INFRASTRUCTURE:** Provides for purchase of communications-computer equipment to meet AFIT's computational requirements through the 1990's. This program consists of the acquisition of several computers, ranging from workstations to super mini-computers which are networked together to provide educational computer support. It will provide computing resources in support of all students, faculty, and staff applications except specialized laboratory processing and those acquisitions requiring very large computing power satisfied only by super-computer class machines (i.e. CRAY). This program will provide AFIT with state-of-the-art computer systems that are necessary to reduce AFIT's dependency on outside organizations for computer support. Purchase for FY97 will include high speed network upgrades, network security devices and CD-ROM servers, network management tools, and back-up storage and archive systems. Acquisitions for FY98 will consist of additional high speed network upgrades, central and distributed scientific workstation upgrades, and DEC Alpha cluster replacement for academic computing and administrative databases. Planned purchases for FY99 will be SUN computer servers for scientific workstations as well as additional central and distributed scientific workstations upgrades and completion of high speed network upgrades.

8. **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 needs identified through the Mission Area Planning Process. 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. FY96 funds continued the acquisition of interactive

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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

courseware equipment, electronic document distribution equipment, and combat crew training simulation equipment for the Interactive Courseware Centers (ICC) in support of the AETC Training Technologies Roadmap. FY97-99 funds will continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality.

9. **333rd TRAINING SQUADRON (TS) TRAINING TECHNOLOGY REFRESHMENT/EXPANSION:** This program provides the latest technology and innovations for computer hardware and computer software for the basic and advanced Communications Officer Training for Air Force and international students at Keesler AFB, MS. With the continued growth of computer technology, this program allows AETC managers to prioritize new computer developments for inclusion in state-of-the-art training. FY96 funds began acquisition of this training capability by providing the basic network system. FY99 funds will allow for increased training efficiency through the replacement of outdated equipment.

10. **AU LIBRARY SYSTEM:** No FY97/98/99 funding requested.

AIR FORCE MATERIEL COMMAND (AFMC)

11. **COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS):** CEMS is an information storage and retrieval system essential to effectively manage over 400,000 critical parts in the Air Force's large fleet of 22,000 active turbine engines. CEMS Increment IV is an invaluable tool used at base level to discover, diagnose, and prevent engine problems. The number of CEMS IV users is growing all the time as older aircraft are being re-engined or replaced by newer aircraft. Due to the age and nature of the CEMS IV software, a specially configured personal computer is required to interface with other computers in the CEMS IV system and with computers connected to other databases. These special computers support field users both at their home base and while deployed. Currently there is a backlog of over 100 bases requiring initial purchase of new equipment to run CEMS IV and a backlog of 107 bases requiring modernization of older equipment to reduce overall costs. FY96-99 funds provide for continued CEMS IV base activations, miscellaneous equipment in support of CEMS direct line reporting and interfaces to Core Automated Maintenance System (e.g., modems, communication software, serial cards for microcomputers, cables and similar equipment).

12. **EMBEDDED (COMPUTER RESOURCES) SUPPORT IMPROVEMENT PROGRAM (ESIP):** ESIP, through the use of specific hardware and software tools, will improve the quality and productivity of weapon system software and reduce an increasing backlog of weapon system software requirements. ESIP is currently divided into two primary domains or tasks: Wright Labs (WL), Wright Patterson AFB, OH, and the Software Technology Support Center (STSC), Hill

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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

AFB, UT. Primary tasks supported through Wright Labs are: Virtual Test Station (VTS), Automated Validation (AutoVal), Automated Avionics Software Testing (AAST), A Digital Avionics Methodology Schema (ADAMS), and Low-Cost Interactive Stimuli-Generating Test Station (LISTS). Primary tasks supported through the STSC are: On-Line Services, Technology Evaluation and Demonstration, Technology Consulting, and CrossTalk Publication Systems. Funds are required to procure equipment for software tool evaluation of hard, real-time modules and components. Standard configuration off-the-shelf hardware does not fulfill the requirements dictated by these functions. This new equipment will support software engineering, development, and test of operational weapon system software and support equipment. FY96-99 funds continue procurement of a wide range of special configurations of mini/micro computers and commercial/peculiar hardware devices essential for weapon system support.

13. **F-117A COMPUTER SUPPORT:** FY96-99 funding continues procurement of computers and associated peripheral equipment in support of depot functions for the F-117 aircraft. Specifically, funds will buy ADPE, including mini/microcomputers, printers and disk drives, which provide logistics support for the program management office.

14. **LOGISTICS DATA INTEGRATION SYSTEM (LOGDIS):** LOGDIS provides users with a standard electronic mail system and with world-wide access to multiple dissimilar host computers via user friendly interfaces. This program was originally included as part of the Productivity Enhancement program. However, after FY96, the requirements for the other portions of Productivity Enhancement were canceled, leaving only the LOGDIS project. There are currently 33,000 LOGDIS users with systems at HQ Air Force Material Command, five Air Logistic Centers (ALCs), Aerospace Maintenance and Regeneration Center (AMARC), Cataloging and Standardization Center (CASC), and dial-in access for HQ Pacific Air Forces and HQ United States Forces in Europe. FY97/98/99 funding will provide additional hardware required to take advantage of available client/server groupware technologies.

15. **PRODUCTIVITY ENHANCEMENT:** No FY98/99 funding requested.

16. **WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS):** WSMIS provides an automated logistics decision support system to ensure that USAF weapon systems and combat forces can meet their wartime taskings as well as peacetime operating requirements. Hardware acquisitions will enable AFMC to provide this support more efficiently. Specifically, WSMIS provides an effective and responsive system giving improved logistics support to AFMC and other DoD activities during contingencies. FY96-99 funding procures terminals for the classified systems users and additional direct access storage devices for classified and unclassified systems.

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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

17. **TARGET MATERIALS PRODUCTION PROGRAM:** FY96-99 funds continue procurement of automated equipment to include workstations, local area networks, software, peripherals, and laser printers to replace the current manpower intensive means of producing target materials for aircrew mission planning and execution. Without this equipment, aircrews worldwide will lack the necessary intelligence data for mission planning thus subjecting aircrews and aircraft to increased risk and decreased effectiveness. The Target Material Workstation (TMWS) is a computer system designed for target graphic production. The consolidated target material production program is a DIA (Defense Intelligence Agency) managed program that provides via the TMWS an all-digital method of producing target materials input for national and theater collection systems.

AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)

18. **AFOSI COMPUTER NETWORK:** FY96-99 funding continues a phased program to fulfill the automation requirements of the AFOSI in sensitive mission areas such as investigative casework, counterintelligence, anti-terrorism and force projection. These automation enhancements will provide timely and accurate reports and analysis to AFOSI field commanders. Specifically, FY96-99 funding provides upgrades for the Defense Criminal Investigation Organization Information System (DCIOIS), the Defense Counterintelligence Information System (DCIIS), and the AFOSI Digital Imaging System. Additionally, funding provides modernization of AFOSI local area network and video teleconferencing systems.

AIR FORCE OPERATIONAL TEST & EVALUATION CENTER (AFOTEC)

19. **OFFICE AUTOMATION:** No FY98/99 funding requested.

AIR FORCE PERSONNEL CENTER (AFPC)

20. **PERSONNEL DATA SYSTEM (PDS):** No FY98/99 funding requested.

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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

21. **REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT:** Included in this program are resources required to support the Regionalization of the Air Force's civilian personnel operations. In 1993, the military Services and DoD agencies were directed to develop regional processing centers. This effort is part of the DoD-wide Civilian Personnel Regionalization/Systems Modernization program which provides for a reduction in the number of employees in the civilian personnel career field through the application of increased servicing ratios. Because the manpower reductions have been laid in, the Air Force must deliver regionalized services on time. A more detailed description of the Civilian Personnel Regionalization/Systems Modernization program is included on the Operations & Maintenance, Defense-Wide (O&M, D-W) budget submission of the Defense Civilian Personnel Management Service (DCPMS). The equipment/systems purchased allow the Air Force to accomplish regionalization and servicing ratio goals by reengineering, streamlining, and automating personnel administration and management. Initially, two proof-of-concept regional centers were established in FY95. One center is operated by Air Force Space Command (AFSPC) in Colorado Springs, CO, servicing approximately 8,000 employees at seven locations. The other center is operated by Air Mobility Command (AMC) at Scott AFB, IL, servicing approximately 13,000 employees at 11 locations. FY95 funds provided for the computer hardware needed to establish these centers, and FY96 provided initial start-up costs at the Air Force Personnel Center (AFPC) at Randolph AFB, TX. The proof-of-concept centers will phase down by the end of FY97 and all operations will be phased to AFPC which will begin servicing to select locations in FY97. The AFPC will provide support to all Air Force civilian employees by FY99. FY97-98 funds will purchase computer hardware, to include microcomputers, servers, printers, storage devices, networking support, associated peripheral devices, and software to establish the center and outfit installation-level Civilian Personnel Flights (CPFs). The equipment will support electronic records management systems, several Functional Process Improvements (FPIs), and electronic management of Official Personnel Folders (OPFs). In FY99, the MAISRC-approved (Major Automated Information System Review Council) USAF Regionalization Acquisition Plan provides for the purchase of servers, computers, printers, LAN (local area network) servers, and network and LAN components.

AIR NATIONAL GUARD (ANG)

22. **JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS):** No FY98/99 funding requested.

US AIR FORCE ACADEMY (USAFA)

23. **AIR FORCE ACADEMY COMPUTER SUPPORT:** FY96 funds continued purchase and phased implementation of the USAFA base network (USAFAnet) to provide equipment to modernize the Cadet Administrative Management Information System (CAMIS), a base-wide Personal Protection System

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

(PPS). FY97 funds will continue the modernization of CAMIS and will enhance USAFAnet service for the cadets. FY98 funds will expand the base fiber optic ring, purchase hardware and software to support the Defense Message System (DMS), and will replace the Academy's workstation server. FY99 funds will enhance USAFAnet for the faculty and support organization and will continue implementation of DMS support and the expanded base fiber ring.

UNITED STATES AIR FORCE IN EUROPE (USAFE)

24. **INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT:** This project funds continued equipment upgrades to USAFE intelligence ADP systems and communications network. This architecture is USAFE's force-level ADP system/communications network for analysis and dissemination of intelligence to aircrews throughout the USAFE area of responsibility to support execution of combat/crisis/peacekeeping operations. FY96-99 funds continue the purchase of ADP equipment needed to fulfill this requirement.

25. **WARRIOR PREPARATION CENTER (WPC):** The WPC provides senior battle commanders and their staff the opportunity to train at the operational level of war using interactive computer simulations that replicate as closely as possible, the real-world environment. The WPC extends this training opportunity to our NATO allies. Additionally, WPC supports real-world operations such as Operation Joint Endeavor as well as exercise requirements in remote areas such as Turkey. The WPC's robust training schedule consists of 10-12 exercises/computer assisted events per year, including some world-wide exercises involving up to 9000 personnel. A large portion of WPC workstations, terminals and peripherals are nearing the end of their life cycle and are no longer economical to repair. FY96-99 funds continue procurement of simulation workstations and terminals, satellite communication equipment and peripheral equipment in order to remain technologically sufficient to meet the training needs of USAFE. Failure to obtain the equipment needed will impact on the Air Force's ability to reduce training costs, maintain war fighting capability and support world-wide operations.

US STRATEGIC COMMAND (USSTRATCOM)

26. **OFFICE AUTOMATION (OA) LAN NETWORK INFRASTRUCTURE:** The USSTRATCOM unclassified and secret Office Automation Local Area Network (OA-LAN) procurement provides all HQ users a standard suite of software application (word-processing-MS Word, spreadsheets-MS Excel, graphics-MS Power Point, database-MS Access, electronic mail-E-mail) for HQ USSTRATCOM Joint Functional Staff Offices to manipulate the tremendous amount of information that is handled every day, to include; regulations: operational plans, staff summaries, informational papers, correspondence, personnel data for

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
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	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

administrative management acquisition, programming or budgeting documents of all types in support of USSTRATCOM Intelligence, Nuclear War Planning, and Command and Control (C2). FY96, 98, and 99 funds provide for an ongoing USSTRATCOM requirement for office automation and local area networks requires upgrades/improvements in addition to periodic maintenance to provide continued support to senior staff and action officers located at Offutt AFB, NE. The office automation LAN will require upgrades and enhancements to integrate available and emerging technologies. Funding provides additional infrastructure and components and upgrades to network file servers, mail servers and printer servers, as well as stratus servers and SQL servers and upgrade Gateways for external connectivity.

ANG/AFR: The following is a breakout of funding for equipment used by ANG/AFR within this P-1 line.

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	-		1.5		-		0
FY97	-		0		-		0
FY98	-		0		-		0
FY99	-		0		-		0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
11SPTW		VAR	N/A	(8,652)	VAR	N/A	(12,337)	VAR	N/A	(18,704)	VAR	N/A	(12,671)
1. HQS IT Investment	A			5,198			7,462			12,204			9,073
2. HQS Mainframe Systems Support	A			3,454			4,875			3,500			3,200
3. SAF/FM FIRST	A									3,000			
4. Exec Agent for Air & Space Natural Environ	A												398
ACC													
5. Base Operations	A	VAR	N/A	333	VAR	N/A	523	VAR	N/A	268	VAR	N/A	277
AETC		VAR	N/A	(6,642)	VAR	N/A	(4,779)	VAR	N/A	(4,141)	VAR	N/A	(7,186)
6. ATS	A			3,763			2,801			2,571			4,395
7. AFIT Computer Infrastructure	A			529			578			597			617
8. Ed and Training Technology Applications Program	A			1,821			1,400			973			1,707

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
9. 333TS Trng Tech Refresh/Expansion	A			316									467
10. AU Library System	A			213									
AFMC		VAR	N/A	(4,698)	VAR	N/A	(3,511)	VAR	N/A	(3,979)	VAR	N/A	(5,105)
11. CEMS	A			211			154			181			196
12. ESIP	A			1,777			1,645			2,044			2,705
13. F-117A Computer Spt	A			366			275			240			385
14. LOGDIS	A						401			506			528
15. Productivity Enh	A			952									
16. WSMIS	A			777			561			586			673
17. Target Materials Production Program	A			615			475			422			618
AFOSI													
18. AFOSI Computer Network	A	VAR	N/A	198	VAR	N/A	190	VAR	N/A	96	VAR	N/A	94

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
AFOTEC													
19. Office Automation	A	VAR	N/A	199	VAR	N/A	202						
AFPC		VAR	N/A	(6,019)	VAR	N/A	(7,324)	VAR	N/A	(6,385)	VAR	N/A	(3,954)
20. PDS-90	A			655			644						
21. Regionalization of Civ Pers Spt	A			5,364			6,680			6,385			3,954
ANG													
22. JRISS	A	VAR	N/A	1,490									
USAFA													
23. AFA Computer Spt	A	VAR	N/A	1,108	VAR	N/A	1,318	VAR	N/A	1,075	VAR	N/A	1,626
USAFE		VAR	N/A	(984)	VAR	N/A	(983)	VAR	N/A	(881)	VAR	N/A	(904)

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
24. Intel ADP	A			320			320			333			342
25. Warrior Prep Center	A			664			663			548			562
USSTRATCOM													
26. OA LAN Network Infrastructure	A	VAR	N/A	537				VAR	N/A	576	VAR	N/A	593
TOTAL				30,860			31,167			36,105			32,410

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
11SPTW										
1. HQS IT INVESTMENT										
FY96	GSA [1] MULTIPLE	MIPR/C/FP [1]	11SPTW	MAY 96	JUL 96	VAR [2]	N/A [2]			
FY97	GSA [1] MULTIPLE	MIPR/C/FP [1]	11SPTW	JAN 97	JUL 97	VAR [2]	N/A [2]			
FY98	GSA [1] MULTIPLE	MIPR/C/FP [1]	11SPTW	MAR 98	JUN 98	VAR [2]	N/A [2]	YES	NO	
FY99	GSA [1] MULTIPLE	MIPR/C/FP [1]	11SPTW	MAR 99	JUN 99	VAR [2]	N/A [2]	YES	NO	
2. HQS MAINFRAME SYS SPT										
FY96	DISA/GRUMMAN DATA SYS HERNDON, VA	MIPR/OPT/FP	11SPTW	MAY 96	AUG 96	VAR [2]	N/A [2]			
FY97	DISA/GRUMMAN DATA SYS HERNDON, VA	MIPR/OPT/FP	11SPTW	MAY 97	AUG 97	VAR [2]	N/A [2]	YES	NO	
FY98	UNKNOWN	C/FP	11 SPTW	JAN 98	MAR 98	VAR [2]	N/A [2]	YES	NO	
FY99	UNKNOWN	C/FP	11 SPTW	JAN 99	MAR 99	VAR [2]	N/A [2]	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. SAF/FM FBS INVESTMENT										
FY98	I-CASE ARLINGTON, VA	OPT/FP [3]	11 SPTW-SSG/GUNTER	FEB 98	JUL 98	VAR [2]	N/A [2]	YES	NO	
4. EXEC AGENT FOR AIR & SPACE NATURAL ENVIRON										
FY 99	MULTIPLE	OPT/FP [4]	11 SPTW	NOV 98	FEB 99	VAR [2]	N/A [2]	YES	NO	
ACC										
5. BASE OPERATIONS										
FY96	MULTIPLE	OPT/FP [5]	HQ ACC	MAY 96	AUG 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	OPT/FP [5]	HQ ACC	MAY 97	AUG 97	VAR [2]	N/A [2]	YES	NO	
FY98	MULTIPLE	OPT/FP [5]	HQ ACC	MAY 98	AUG 98	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [5]	HQ ACC	MAY 99	AUG 99	VAR [2]	N/A [2]	YES	NO	
AETC										
6. ATS										
FY96	MULTIPLE	C/FP	HQ AETC	MAR 96	MAY 97	VAR [2]	N/A [2]			
FY97	MULITPLE	C/FP	HQ AETC	MAR 97	MAY 97	VAR [2]	N/A [2]	YES	NO	
FY98	MULTIPLE	C/FP	HQ AETC	MAR 98	MAY 98	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE	C/FP	HQ AETC	MAR 99	MAY 99	VAR [2]	N/A [2]	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
7. AFIT COMPUTER INFRASTRUCTURE										
FY96	MULTIPLE[1]	C/FP	AFMC/ASC	MAY 96	JUN 96	VAR	N/A [2]			
FY97	MULTIPLE[1]	C/FP	AFMC/ASC	FEB 97	APR 97	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[1]	C/FP	AFMC/ASC	NOV 97	FEB 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[1]	C/FP	AFMC/ASC	NOV 98	JAN 99	VAR	N/A [2]	YES	NO	
8. ED & TRNG TECH APPLICATIONS PRGM										
FY96	MULTIPLE[1]	C/FP	HQ AETC	JAN 96	MAR 96	VAR [2]	N/A [2]			
FY97	MULTIPLE[1]	C/FP	HQ AETC	JAN 97	MAR 97	VAR [2]	N/A [2]			
FY98	MULTIPLE[1]	C/FP	HQ AETC	JAN 98	MAR 98	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE[1]	C/FP	HQ AETC	JAN 99	MAR 99	VAR [2]	N/A [2]	YES	NO	
9. 333TS TRNG TECH REFRESH/EXPANSION										
FY96	MULTIPLE[1]	C/FP	HQ AETC	MAY 96	JUL 96	VAR [2]	N/A [2]			
FY99	MULTIPLE[1]	C/FP	HQ AETC	FEB 99	MAY 99	VAR [2]	N/A [2]	YES	NO	
10. AU LIBRARY SYSTEM										
FY96	MULTIPLE[1]	C/FP	42ABW/LGC	SEP 96	JAN 97	VAR [2]	N/A [2]			

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AFMC										
11. CEMS										
FY96	SAIC	C/FP	AFMC/SAALC	AUG 96	SEP 96	VAR [2]	N/A [2]			
FY97	SAIC	OPT/FP	AFMC/SAALC	FEB 97	APR 97	VAR [2]	N/A [2]	YES	NO	
FY98	SAIC	OPT/FP	AFMC/SAALC	FEB 98	APR 98	VAR [2]	N/A [2]	YES	NO	
FY99	SAIC SAN DIEGO, CA	OPT/FP	AFMC/SAALC	FEB 99	APR 99	VAR [2]	N/A [2]	YES	NO	
12. ESIP										
FY96	FILENET CORP SALT LAKE CITY, UT	C/FP	AFMC/SMALC	JUN 96	JUL 96	VAR [2]	N/A [2]			
FY97	SAIC DAYTON, OH	DO/CPFF	AFMC/ASC	APR 97	JUN 97	VAR [2]	N/A [2]	YES	NO	
	TRW DAYTON, OH	DO/CPFF	AFMC/ASC	JUN 97	SEP 97	VAR	N/A	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/SMALC	APR 98	JUN 98	VAR [2]	N/A [2]	YES	N0	
FY99	UNKNOWN	C/FP	AFMC/SMALC	APR 99	JUN 99	VAR [2]	N/A [2]	YES	NO	
13. F-117A COMPUTER SUPPORT										
FY96	SAIC SACRAMENTO, CA	OPT/FFP [6]	AFMC/SMALC	JUN 96	DEC 96	VAR [2]	N/A [2]			
FY97	FIELDWORKS, INC EDEN PRAIRIE, MN	C/FFP	AFMC/SMALC	JAN 97	APR 97	VAR [2]	N/A [2]			

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98	UNKNOWN	C/FP	AFMC/SMALC	JUL 98	JAN 99	VAR [2]	N/A [2]	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/SMALC	JUL 99	JAN 00	VAR [2]	N/A [2]	YES	NO	
14. LOGDIS										
FY97	BATTELLE	OPT/IDIQ [5]	AFMC/MSG	FEB 97	APR 97	VAR [2]	N/A [2]	YES	NO	
FY98	BATTELLE	OPT/IDIQ [5]	AFMC/MSG	FEB 98	APR 98	VAR [2]	N/A [2]	YES	NO	
FY99	BATTELLE COLUMBUS, OH	OPT/IDIQ [5]	AFMC/MSG	FEB 99	APR 99	VAR [2]	N/A [2]	YES	NO	
15. PRODUCTIVITY ENHANCEMENT										
FY96	BATTELLE COLUMBUS, OH	OPT/IDIQ [5]	AFMC/MSG	APR 96	JUL 96	VAR [2]	N/A [2]			
FY96	NAVAIR NORFOLK, VA	MIPR/OPT/ IDIQ	AFMC/ASC	NOV 96	DEC 96	VAR [2]	N/A [2]			
16. WSMIS										
FY96	DYNAMICS RESEARCH CORP WILMINGTON, MA	C/FP [8]	OO/ALC	JUL 96	OCT 96	VAR [2]	N/A [2]			
FY97	DYNAMICS RESEARCH CORP WILMINGTON, MA	C/FP [8]	OO/ALC	JUN 97	AUG 97	VAR [2]	N/A [2]	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/ASC	JUN 98	AUG 98	VAR [2]	N/A [2]	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/ASC	JUN 99	JUL 99	VAR [2]	N/A [2]	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
17. TARGET MATERIALS PROD PROG										
FY96	GTE WESTLAKE VILLAGE, CA	C/FP	AFMC/OOALC	MAY 96	AUG 96	VAR [2]	N/A [2]			
FY97	UNKNOWN	C/FP	AFMC/OOALC	APR 97	JUN 97	VAR [2]	N/A [2]	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/OOALC	MAR 98	MAY 98	VAR [2]	N/A [2]	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/OOALC	MAR 99	MAY 99	VAR [2]	N/A [2]	YES	NO	
AFOSI										
18. AFOSI COMPUTER NETWORK										
FY96	MULTIPLE [7]	C/FP	HQ AFOSI	MULTI	MULTI	VAR [2]	N/A [2]			
FY97	MULTIPLE [7]	C/FP	HQ AFOSI	MULTI	MULTI	VAR [2]	N/A [2]	YES	NO	
FY98	MULTIPLE [7]	C/FP	HQ AFOSI	MULTI	MULTI	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE [7]	C/FP	HQ AFOSI	MULTI	MULTI	VAR [2]	N/A [2]	YES	NO	
AFOTEC										
19. OFFICE AUTOMATION										

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY96	MULTIPLE	C/FP	HQ AFOTEC	MAY 96	AUG 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	C/FP	HQ AFOTEC	JUN 97	SEP 97	VAR [2]	N/A [2]	YES	NO	
AFPC										
20. PDS										
FY96	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 95	APR 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 96	APR 97	VAR [2]	N/A [2]			
21. REGIONALIZATION OF CIV PERS SPT										
FY96	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 95	JAN 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 96	JAN 97	VAR [2]	N/A [2]			
FY98	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 97	JAN 98	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [5]	HQ AFPC	NOV 98	JAN 99	VAR [2]	N/A [2]	YES	NO	
ANG										
22. JRISS										
FY96	MULTIPLE	C/FP	HQ ANG	SEP 96	NOV 96	VAR [2]	N/A [2]			

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
USAFA										
23. AFA COMPUTER SPT										
FY96	MULTIPLE	C/FP	USAFA	JAN 96	MAR 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	C/FP	USAFA	DEC 96	FEB 97	VAR [2]	N/A [2]			
FY98	MULTIPLE	C/FP	USAFA	DEC 97	FEB 98	VAR 2	N/A [2]	YES	NO	
FY99	MULTIPLE	C/FP	USAFA	DEC 98	FEB 99	VAR 2	N/A [2]	YES	NO	
USAFE										
24. INTEL ADP										
FY96	MULTIPLE	C/FP	HQ USAFE	JUL 96	SEP 96	VAR [2]	N/A [2]			
FY97	MULTIPLE	C/FP	HQ USAFE	DEC 96	APR 97	VAR [2]	N/A [2]			
FY98	MULTIPLE	C/FP	HQ USAFE	DEC 97	APR 98	VAR 2	N/A [2]	YES	NO	
FY99	MULTIPLE	C/FP	HQ USAFE	DEC 98	APR 99	VAR [2]	N/A [2]	YES	NO	
25. WARRIOR PREP CENTER										
FY96	GTE W-ROBINS, GA	C/FP	HQ USAFE	MAR 96	AUG 96	VAR [2]	N/A [2]			
FY97	GTE W-ROBINS, GA	OPT/FP	HQ USAFE	FEB 97	MAY 97	VAR [2]	N/A [2]	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98	GTE W-ROBINS, GA	OPT/FP	HQ USAFE	FEB 98	MAY 98	VAR [2]	N/A [2]	YES	NO	
FY99	GTE W-ROBINS, GA	OPT/FP	HQ USAFE	FEB 99	MAY 99	VAR [2]	N/A [2]	YES	NO	
USSTRATCOM										
26. OA LAN NETWORK INFRASTRUCTURE										
FY96	MULTIPLE	C/FP	HQ STRATCOM	JUN 96	SEP 96	VAR [2]	N/A [2]			
FY98	MULTIPLE	C/FP	55 CONS SQ	FEB 98	AUG 98	VAR [2]	N/A [2]	YES	NO	
FY99	MULTIPLE	C/FP	55 CONS SQ	FEB 99	AUG 99	VAR [2]	N/A [2]	YES	NO	

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

1. MULTIPLE GSA SCHEDULE CONTRACTORS, INCLUDING ELECTRONIC DATA SYSTEMS (EDS), HERNDON, VA; HSF INC, MCLEAN, VA; GTE, WEST LAKE, CA; TOSHIBA AMERICAN, IRVINE, CA; AND LOGICON TECH, SAN PEDRO, CA. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
2. QUANTITIES AND COSTS VARY BASED ON LOCATION AND CONFIGURATION.
3. OPTION TO PREVIOUSLY AWARDED CONTRACT WITH I-CASE CORP, ARLINGTON, VA.
4. OPTIONS TO MULTIPLE CONTRACTORS SPECIALIZING IN ADP HARDWARE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
5. OPTIONS TO MULTIPLE STANDARD CONTRACTS INCLUDING DT IV, ULANA, SUPER-MINI, SMSCRC. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
6. OPTION TO 1995 FIRM FIXED PRICE CONTRACT AWARDED TO SCIENTIFIC APPLICATIONS INTERNATIONAL CORPORATION (SAIC).
7. HQ AFOSI MAKES USE OF MULTIPLE CONTRACTS TO MODERNIZE THEIR COMPUTER SYSTEMS INCLUDING TCC CORP, BOSTON, MA. MULTIPLE AWARD AND DELIVERY DATES ARE ASSOCIATED WITH THESE CONTRACTS.
8. OPTION TO 1995 FIRM FIXED PRICE CONTRACT AWARD DYNAMICS RESEARCH CORPORATION.

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.			
	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 59	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE FEBRUARY 1997				
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AF GLOBAL COMMAND AND CONTROL SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.137	10.165	7.319	5.980	5.992	5.998	6.098	6.146

The Air Force Global Command & Control System (AFGCCS) program provides the common Air Force infrastructure necessary to pass Air Force command and control (C2) data between commands, their components, and the joint service Global Command and Control System (GCCS). These efforts support a more flexible open-systems, distributed C2 architecture necessary to support the client/server-based GCCS. AFGCCS provides computer and communications equipment for two command and control (C2) programs, the Air Force Command & Control Network (AFC2N) and the AFGCCS Modernization. AFC2N upgrades a site's classified C2 computer and communications backbone through extensive use of commercial-off-the-shelf (COTS) technology that adheres to the Air Force command, control, communications and computer (AFC4) building codes and standards, thereby preparing the site for GCCS operations. The AFGCCS Modernization procures and installs the GCCS at the required Air Force locations.

1. **AIR FORCE COMMAND & CONTROL NETWORK (AFC2N):** AFC2N upgrades the Air Force C2 infrastructure to a common open system architecture compatible with joint war planning and deployment software. The classified communications infrastructure of the Major Command (MAJCOM) C2 facilities (e.g. command posts) will be modernized by installing state-of-the-art networking components, improving interoperability, data throughput, and system security. AFC2N includes base-level network upgrades to support the GCCS and Theater Battle Management Core Systems (TBMCS) for Active Duty, Guard and Reserve units. It provides a standardized base-level interface between AF base level classified C2 networks and the joint Defense Information Systems Agency (DISA) secret network (SIPRNET), and complies with current AF networking initiatives.

FY96 funds upgraded C2 local area networks (LANs) for 37 locations: US Special Operations Command (7), US Transportation Command (9), US Space Command (5), Air Force Materiel Command (6) and Pacific Air Forces (10).

FY97 funds upgrade C2 LANs and improve data throughput at 77 locations: Air Combat Command (4), Air Education & Training Command (12), Air Force Combat Operations Staff (2), Air Force Material Command (10), Air Force Pentagon Communications Agency (1), AF Reserve (2), AF Special Operations Command (4), AF Space Command (3), Air Intelligence Agency (2), Air Mobility Command (5), Air National Guard (13), Air Weather Service (1) US Central Command/Southern Command (3), Pacific Air Forces (2), Strategic Command (11), and HQ USAF (2).

FY98 funds upgrade C2 LANs and improve data throughput at 66 locations: Air Combat Command (1), Air Education & Training Command (3), Air Force Combat Operations Staff (1), Air Force Material Command (10), Air Force Pentagon Communications Agency (1), AF Reserve (11), AF Special Operations Command (3), AF Space Command (6), Air Intelligence Agency (1), Air Mobility Command (6), Air National Guard (11), Pacific Air Forces (2), US Space Command (4), US Strategic Command (3), US Air Forces in Europe (2) and HQ USAF (1). In FY98, the installation of network security measures, such as firewalls and system monitors, will begin at selected AF bases to add additional security protection to meet GCCS specific security requirements.

FY99 funds upgrade C2 funds improve data throughput and network security at 60 locations: Air Force Reserves (40), Air National Guard (10), Pacific Air Forces (3), Air Education & Training Command (1), Air Combat Command (1), Air Force Material Command (2), and US Air Forces in Europe (3).

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AF GLOBAL COMMAND AND CONTROL SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. **AF GLOBAL COMMAND AND CONTROL SYSTEM (AFGCCS) MODERNIZATION**: This funding procures GCCS servers, workstations, and associated peripherals. It integrates the GCCS at USAF and MAJCOM headquarters, Numbered Air Forces, wings, and remote sites as required to establish initial and full operational capability under GCCS. It also upgrades or replaces C2 communications and computer systems to modernize logistically unsupportable MAJCOM C2 systems and capitalize on AFC2N and AFGCCS improvements.

FY96 funds provided communications and computer systems at MAJCOM headquarters and subordinate units.

FY97 funds will continue communications and computer upgrades for Air Mobility Command, Air Force Materiel Command, Air Combat Command, US Air Forces in Europe, US Space Command, US Central Command, Air Education and Training Command, and Pacific Air Forces.

FY98 funds continue fielding GCCS hardware at all MAJCOM locations and required systems enhancements to hardware already fielded.

FY99 funds will expand the GCCS architecture to include new functional users on each base and provide technical refreshment of fielded hardware.

3. **ANG/AFR:**

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96			0				0
FY97	VAR		1.164		VAR		0.463
FY98	VAR		0.775		VAR		0.775
FY99	VAR		0.530		VAR		2.110

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AF GLOBAL COMMAND AND CONTROL SYSTEM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AFC2N		VAR	N/A	(3,615)	VAR	N/A	(4,737)	VAR	N/A	(4,158)	VAR	N/A	(3,111)
• LOCAL AREA NETWORK UPGRADES	A			3,615			2,267			820			
• THROUGHPUT UPGRADES	A						2,470			2,800			1,800
• SECURITY UPGRADES	A									538			1,311
2. AFGCCS MODERNIZATION	A	VAR	N/A	1,522	VAR	N/A	5,428	VAR	N/A	3,161	VAR	N/A	2,869
TOTAL				5,137			10,165			7,319			5,980

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	50	62	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AF GLOBAL COMMAND AND CONTROL SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AFC2N										
• LOCAL AREA NETWORK UPGRADES										
FY96	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 95[5]	DEC 95[5]	VAR[2]	N/A[2]			
FY97	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	DEC 96[5]	JAN 97[5]	VAR[2]	N/A[2]			
FY98	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 97[5]	DEC 97[5]	VAR[2]	N/A[2]	YES	NO	
• THROUGHPUT UPGRADES										
FY97	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	DEC 96[5]	JAN 97[5]	VAR[2]	N/A[2]			
FY98	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 97[5]	DEC 97[5]	VAR[2]	N/A[2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 98[5]	DEC 98[5]	VAR[2]	N/A[2]	YES	NO	
• SECURITY UPGRADES										
FY98	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 97[5]	DEC 97[5]	VAR[2]	N/A[2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	AFMC/ESC-38EIW	OCT 98[5]	DEC 98[5]	VAR[2]	N/A[2]	YES	NO	

D. REMARKS

1. OPTION TO ULANA II CONTRACT. PRIME CONTRACTORS ARE UNISYS AND EDS. SUBCONTRACTORS INCLUDE: ALTECH SERVICES, INC, SIERRA VISTA, AZ; AMERICAN COMMUNICATIONS CO, CHANTILLY, VA; ASTRONAUTICS CORP OF AMERICA, MILWAUKEE, WI; CENTURY TECHNOLOGIES, INC, SILVER SPRING, MD; HENKELS AND MCCOY, INC, BLUE BELL, PA; AND NETWORK SOLUTIONS, INC, HERNDON, VA. AWARD AND DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
2. PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.
3. OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT ID/IQ CONTRACTS (E.G. GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO).
4. OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO.
5. AWARD AND DELIVERY DATES REPRESENT THE DATES OF FIRST AWARD AND DELIVERY OF EQUIPMENT.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
50	63	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AF GLOBAL COMMAND AND CONTROL SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. AFGCCS MODERNIZATION										
FY96	GSA [4]	OPT/FP [4]	AFMC/ESC	JAN 96[5]	MAR 96[5]	VAR[2]	N/A[2]			
FY97	MULTIPLE [3]	OPT/FP [3]	AFMC/ESC	FEB 97[5]	APR 97[5]	VAR[2]	N/A[2]	YES	NO	
FY98	MULTIPLE [3]	OPT/FP [3]	AFMC/ESC	JAN 98[5]	APR 98[5]	VAR[2]	N/A[2]	YES	NO	
FY99	MULTIPLE [3]	OPT/FP [3]	AFMC/ESC	JAN 99[5]	APR 99[5]	VAR[2]	N/A[2]	YES	NO	

D. REMARKS

1. OPTION TO ULANA II CONTRACT. PRIME CONTRACTORS ARE UNISYS AND EDS. SUBCONTRACTORS INCLUDE: ALTECH SERVICES, INC, SIERRA VISTA, AZ; AMERICAN COMMUNICATIONS CO, CHANTILLY, VA; ASTRONAUTICS CORP OF AMERICA, MILWAUKEE, WI; CENTURY TECHNOLOGIES, INC, SILVER SPRING, MD; HENKELS AND MCCOY, INC, BLUE BELL, PA; AND NETWORK SOLUTIONS, INC, HERNDON, VA. AWARD AND DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
2. PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.
3. OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT ID/IQ CONTRACTS (E.G. GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO).
4. OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO.
5. AWARD AND DELIVERY DATES REPRESENT THE DATES OF FIRST AWARD AND DELIVERY OF EQUIPMENT.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	50	64	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MOBILITY COMMAND AND CONTROL				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	.937	6.964	6.728	5.460	10.695	8.729	9.151	9.549

As the Department of Defense (DoD) Single Manager for Airlift, Air Mobility Command (AMC) supports national power projection force deployments and time sensitive logistics requirements. To perform this mission, AMC requires an effective command and control (C2) system that provides for efficient centralized management of the entire US strategic mobility fleet. Base command, control, communications and computers (C4) infrastructure will provide the fiber optical backbone for base-wide multi-media connectivity to accomplish AMC's tasks. Under the reorganization and restructuring of the mission of Combat Control Forces, Combat Control Teams (CCT's) previously under the direction of AMC have been transferred to the Air Force Special Operations Command (AFSOC). These CCT's will be provided with new and enhanced communications systems to receive and relay command and control information at the furthest element of command and control structure.

1. **GLOBAL COMMAND AND CONTROL (C2) ARCHITECTURE:** These funds continue AMC's integrated upgrade of command and control systems. Following are the specific details of FY96-99 AMC procurement.

a. **OBJECTIVE WING COMMAND POST (OWCP):** OWCP funding provides for standardization and upgrades to all AMC wing-level command, control, computer and communications (C4) systems and enroute command and control (C2) center functions. Currently, a typical AMC base has several round-the-clock C2 center functions, each occupying a different facility on the base, e.g., aerial port terminal operations, maintenance control, mobility operations, airfield operations, etc. At each of the 24 mobility bases, the OWCP will standardize and upgrade C4 systems to facilitate the consolidation of C2 functions into one central C2 facility. FY95 funding began this effort which continues in FY97; five mobility bases will have been completed through FY97. FY98 funding will procure console upgrades at two additional bases. FY99 funding will provide flight line video upgrades at two bases.

b. **LAN:** FY96-98 funding continues procurement of network equipment at each AMC base/unit to provide command-wide intra-building networking infrastructure in support of Air Force systems such as the Defense Message System (DMS), Combat Information Transport System (CITS), Base Level Systems Modernization and other AMC systems such as Command and Control Information Processing System (C2IPS), OWCP, etc.

c. **ADVANCED COMPUTER FLIGHT PLAN (ACFP):** The ACFP is a user-friendly, menu-driven, computer-generated flight planning system. It is a C2 program used to generate wind optimized flight plans for all MAJCOMs. Funding for FY98 and FY99 is required to upgrade the hardware platform and upgrade the existing database to ensure compatibility with other AMC managed C2 programs. Funding for the platform and database upgrade will procure hardware with associated software and warranties.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MOBILITY COMMAND AND CONTROL				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. AFSOC MOBILITY COMMAND & CONTROL

a. **AIRFIELD SUPPORT EQUIPMENT:** This funding provides equipment for Combat Control Teams (CCTs) (runway support equipment, weather equipment, radios, site survey equipment and personal CCT equipment) to ensure successful accomplishment of the ground-to-air interface across the conflict and air mobility mission spectrum. CCTs are responsible for the proper set up, siting, and operation of critical navigational aid equipment in a designated combat assault/drop zone. FY97/98 funds procure new portable battery operated infrared (IR) runway lighting to support night air operations. Additionally, funds will procure weather equipment to collect accurate local weather conditions at the assault/drop zone for real-time updates to enroute aircraft. New communications equipment, integrating several operational modes, will reduce the overall combat load of the CCT and will enhance their ability to accomplish military standard (MIL-STD) high frequency (HF) communications with C-130, C-141, and C-17 aircraft enroute to assault zones. Funding will also procure laser range finders and lap top computers to generate digitized site survey products. Lastly, procurement of survival transceivers will provide CCT's personal communications for CCT's in emergency rescue situations. No FY99 funding requested.

b. **TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM:** The Tactical C2 Program provides funds for the purchase of new and enhanced communications systems and essential equipment which are required for Special Tactics Teams (STT) (including pararescue) to provide C2 to the farthest reaching elements of Air Force Special Operations Command's (AFSOC) 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. FY97/98 funds will purchase various devices to support STT missions: (1) ultrahigh frequency (UHF) Satellite Communication (SATCOM) radios which meet JCS mandated narrowband and demand assigned multiple access (DAMA) standards; (2) new high frequency (HF) portable radios with automatic link establishment (ALE) to allow communications within the AFSOC's C2 network in the automatic mode; and (3) Multiband, Multimode Beacons (MMB), which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations. No FY99 funding requested.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY COMMAND AND CONTROL	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. GLOBAL C2 ARCHITECTURE		VAR	N/A	(937)	VAR	N/A	(4,729)	VAR	N/A	(5,053)	VAR	N/A	(5,460)
a. OWCP	A				2 [1]	N/A	800	2 [1]	N/A	801	2 [1]	N/A	857
b. LAN	A			937			3,929			3,604			3,310
c. ACFP	A									648			1,293
2. AFSOC MOBILITY CMD & CONTROL					VAR	N/A	(2,235)	VAR	N/A	(1,675)			
a. AIRFIELD SPT EQ	A						750			875			
b. TAC C2 PROGRAM	A						1,485			800			
TOTAL				937			6,964			6,728			5,460

1/ Number of Bases

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	51	67	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MOBILITY COMMAND AND CONTROL

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. GLOBAL COMMAND AND CONTROL ARCHITECTURE										
a. OBJECTIVE WING COMMAND POST (OWCP)										
FY97	SIEMENS ROLM	OPT/FFP [1]	HQ AMC	FEB 97	AUG 97	2 [2]	N/A [3]	YES	NO	
FY98	SIEMENS ROLM	OPT/FFP [1]	HQ AMC	FEB 98	MAR 98	2 [2]	N/A [3]	YES	NO	
FY99	SIEMENS ROLM VIENNA VA	OPT/FFP [1]	HQ AMC	FEB 99	MAR 99	2 [2]	N/A [3]	YES	NO	
b. LOCAL AREA NETWORK (LAN)										
FY96	MULTIPLE	OPTION/FP [4]	HQ AMC	MULTI	MULTI	VAR	N/A [5]			
FY97	MULTIPLE	OPTION/FP [4]	HQ AMC	MULTI	MULTI	VAR	N/A [5]	YES	NO	
FY98	MULTIPLE	OPTION/FP [4]	HQ AMC	MULTI	MULTI	VAR	N/A [5]	YES	NO	
c. ACFP										
FY98	UNKNOWN [7]	SS/FP	HQ AMC	JUN 98	JAN 99	VAR	N/A [5]	NO	YES	APR 98
FY99	UNKNOWN [7]	SS/FP	HQ AMC	JUN 99	JAN 00	VAR	N/A [5]	NO	YES	APR 99

D. REMARKS

1. OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SIEMENS ROLM, VIENNA, VA.
2. NUMBER OF BASES
3. UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
4. UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
5. UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
6. UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
7. 8A SMALL BUSINESS SET ASIDE CONTRACT; SPECIFIC CONTRACTOR TO BE DETERMINED.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MOBILITY COMMAND AND CONTROL

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. AFSOC MOBILITY COMMAND & CONTROL										
a. AIRFIELD SUPPORT EQ										
FY97	UNKNOWN	C/FFP	HQ AFSOC	JUN 97	DEC 97	VAR	N/A [5]	YES	NO	
FY98	UNKNOWN	C/FFP	HQ AFSOC	JUN 98	DEC 98	VAR	N/A [5]	YES	NO	
b. TAC C2 PROGRAM										
FY97	MULTIPLE	OPTION/FP [6]	HQ AFSOC	MULTI [6]	MULTI [6]	VAR	N/A [5]	YES	NO	
FY98	MULTIPLE	OPTION/FP [6]	HQ AFSOC	MULTI [6]	MULTI [6]	VAR	N/A [5]	YES	NO	

D. REMARKS

1. OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SIEMENS ROLM, VIENNA, VA.
2. NUMBER OF BASES
3. UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
4. UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
5. UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
6. UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
7. 8A SMALL BUSINESS SET ASIDE CONTRACT; SPECIFIC CONTRACTOR TO BE DETERMINED.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	15.076	14.304	15.112	18.058	18.842	19.246	19.411	19.462

This program procures and installs physical security equipment to protect aircraft, missiles, nuclear weapons, and other critical war fighting resources under the control of Air Force major commands. The program objectives are to replace older generation intrusion detection systems at fixed-sites, provide relocatable sensors for use on Air Force flightlines, respond to transient security threats, and to provide tactical sensors and communications equipment for air base defense forces.

1. **AIR BASE DEFENSE SENSORS:** FY96-99 funds the Air Force tactical sensor program which will support Air Base Defense requirements to enable security forces to detect intrusions and assess targets. The total Air Force requirement is for 826 Tactical Automated Security Systems (TASS) kits to support two major regional conflicts and provide robust force protection capabilities world-wide. TASS kits can be tailored into Squad, Flight, and Headquarters kits, each containing varying numbers of active, passive, telescope infrared, and breakwire sensors; communications modules and associated support equipment. In November 1996, an FY97 sole source contract was awarded by Electronic Systems Center (ESC) at Hanscom AFB to provide $47M of TASS equipment, based upon an urgent and compelling need to immediately fulfill force protection requirements in Southwest Asia. The contract includes $7M from this P-1 line and $40M from the FY97 "Force Protection/Anti-Terrorism" supplemental P-1 line #55.

FY96 funds procured 207 hand-held thermal imagers.

FY97 funds an estimated 18 Squad kits, 39 Flight kits, and 6 Headquarters kits.

FY98/99 funds will procure the additional 618 TASS kits via a competitively awarded contract.

2. **AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS:** These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical ALCM security command and control subsystems that are no longer supportable. FY96/97/98/99 funding provides for equipment integration and upgrades for Intermediate Maintenance Facilities (IMF's) at Fairchild AFB, WA, Barksdale AFB, LA, and Minot AFB, ND.

3. **ANTITERRORISM:** Antiterrorism funds continue to procure intrusion detection and assessment equipment to protect overseas resources that may be soft targets for terrorist attacks. Equipment includes portable tactical sensors, thermal imagers, fiber optic sensors, and other state-of-the-art detection and assessment equipment. Funds are used synergistically with other Air Force programs to achieve adequate levels of protection. FY96/97/98/99 funds purchase portable security equipment to be used in the Pacific, European, and Southwest Asian theaters to respond to changing and evolving threat scenarios.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **BASE PHYSICAL SECURITY SYSTEMS:**

The Air Force has a continuing need to upgrade and modernize existing physical security systems presently installed at fixed sites worldwide. These systems must be replaced every eight years, on the average, depending on environmental conditions, type of sensor, and availability of spare parts.

a. **FLIGHTLINE SECURITY:** Flightline security equipment reduces significant risk on the Air Force flightlines. Air Force downsizing and aircraft technology advances result in a condition where each single airframe now represents much more national power projection capability than previous aircraft. However, the security afforded most Air Force aircraft in terms of equipment or manpower has actually declined. In FY96 the Air Force began procurement of flightline security assessment equipment as part of a new Tactical Automated Security Systems (TASS) contract. TASS includes a variety of sensors to meet a broad range of intrusion detection needs (perimeter, tactical, flightline). Flightline sensors include the use of microwave technology with tunable frequencies for world-wide deployment. FY96 funds procured an initial quantity of 23 TASS thermal imagers programmed for distribution to Pacific Air Force (PACAF), US Air Forces Europe (USAFE) and HQ Air Combat Command (ACC). FY97/98 funds provide upgrades to nine PACAF flightline security systems. FY99 begins a limited enhancement of high value flightline security across all Major Commands (MAJCOMs) through the acquisition and application of 31 TASS kits.

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, nuclear weapons in depot storage, satellite control facilities, and other key Air Force assets require permanently installed intrusion detection systems (both interior and exterior) and access control systems. These systems must be replaced every eight years on average, depending on environmental conditions, types of sensor and availability of spare parts. Projects are prioritized by MAJCOMs and HQ USAF. The Systems Program Office conducts site surveys, determines appropriate hardware and software solutions, manages the installation, and conducts security systems test and turnover to users. FY96 funds a Weapon Storage Area (WSA) upgrade at Dyess AFB, TX and completes the WSA upgrade for Whiteman AFB, MO. Pending successful completion of a second quarter FY97 QT&E, the Advanced Entry Control System (AECS) will be installed and operationally tested at Malmstrom AFB, MT. Additionally, funds will procure four video storage systems to correct an assessment deficiency identified at four WSA locations within CONUS. FY97 will fund a WSA upgrade at F.E. Warren AFB, WY in the fourth quarter FY97, and integration of new aircraft parking area docks into the security system at Whiteman AFB. FY98 will fund the upgrade of the security system at the Kirtland Underground Munitions Storage Complex (KUMSC) at Kirtland AFB, NM while FY99 funds will upgrade the intrusion detection system at Minot AFB, ND.

5. **MINUTEMAN SQUADRON SECURITY:** These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical Minuteman warhead storage security command and control subsystems that are no longer supportable. FY96-99 funds will purchase equipment upgrades at Malmstrom AFB, MT, F.E. Warren AFB, WY, and Grand Forks AFB, ND.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	52	71	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

6. **ANG/AFR:**

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96			2.700				1.080
FY97			2.657				1.045
FY98			2.780				1.000
FY99			2.296				0.903

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	AIR FORCE PHYSICAL SECURITY SYSTEM	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AIR BASE DEFENSE SENSORS	A	VAR	N/A	5,147	VAR	N/A	6,819	VAR	N/A	7,660	VAR	N/A	6,890
2. ALCM SECURITY SYS	A	VAR	N/A	1,234	VAR	N/A	1,263	VAR	N/A	1,253	VAR	N/A	1,252
3. ANTITERRORISM	A	VAR	N/A	908	VAR	N/A	874	VAR	N/A	902	VAR	N/A	925
4. BASE PHYS SEC SYS		VAR	N/A	(7,670)	VAR	N/A	(4,831)	VAR	N/A	(4,763)	VAR	N/A	(8,443)
a. FLIGHTLINE SEC	A			575			789			753			4,772
b. FIXED-SITE SECURITY	A			7,095			4,042			4,010			3,671
5. MINUTEMAN SQD SEC	A	VAR	N/A	117	VAR	N/A	517	VAR	N/A	534	VAR	N/A	548
TOTAL				15,076			14,304			15,112			18,058

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	52	73	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AIR BASE DEFENSE SENSORS										
FY96	MAGNAVOX[7] MAHWAH , NJ	C/FFP[7]	AFMC/ESC	FEB 96	AUG 96	VAR [2]	N/A [3]			
FY97	TRW[7] CARSON, CA	SS/FFP[7]	AFMC/ESC	NOV 96	FEB 97	VAR [2]	N/A [3]			
FY98	UNKNOWN	C/FFP[7]	AFMC/ESC	DEC 97	SEP 98	VAR [2]	N/A [3]	YES	NO	
FY99	UNKNOWN	OPTION	AFMC/ESC	DEC 98	SEP 99	VAR [2]	N/A [3]	YES	NO	
2. ALCM SECURITY SYSTEMS										
FY96	MULTIPLE [4]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]			
FY97	MULTIPLE[4]	DEL ORD[1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]	YES	NO	
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR [5]	N/A [3]	YES	NO	
FY99	UNKNOWN	DEL ORD	AFMC/ESC			VAR [5]	N/A [3]	YES	NO	
3. ANTITERRORISM										
FY96	MULTIPLE [6]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]			
FY97	MULTIPLE [6]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]	YES	NO	
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR [5]	N/A [3]	YES	NO	
FY99	UNKNOWN	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]	YES	NO	
4. BASE PHYSICAL SECURITY SYSTEMS										
A. FLIGHTLINE SECURITY										
FY96	MAGNAVOX MAHWAH N.J.	C/FP	AFMC/ESC	FEB 96	AUG 96	VAR [5]	N/A [3]			

D. REMARKS
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	VAR [5]	N/A [3]	YES	NO	
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	SEP 98	VAR [5]	N/A [3]	YES	NO	
FY99	UNKNOWN	OPTION	AFMC/ESC	DEC 98	SEP 99	VAR [5]	N/A [3]	YES	NO	
B. FIXED SITE SECURITY										
FY96	SYS PLAN CORP ARLINGTON, VA	OPT/FP [9]	AFMC/ESC	MULTI [9]	MULTI [9]	VAR [5]	N/A [3]			
FY97	SYS PLAN CORP ARLINGTON, VA	OPT/FP [9]	AFMC/ESC	MULTI [9]	MULTI [9]	VAR [5]	N/A [3]	YES	NO	
FY98	SYS PLAN CORP ARLINGTON, VA	OPT/FP [9]	AFMC/ESC	MULTI [9]	MULTI [9]	VAR [5]	N/A [3]	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/ESC	JAN 99	MULTI [9]	VAR [5]	N/A [3]	YES	NO	
5. MINUTEMAN SQUADRON SECURITY										
FY96	MULTIPLE [8]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]			
FY97	MULTIPLE [8]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]	YES	NO	
FY98	UNKNOWN [8]	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR [5]	N/A [3]	YES	NO	
FY99	UNKNOWN [8]	DEL ORD [1]	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [5]	N/A [3]	YES	NO	

D. REMARKS
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
52	75	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FOOTNOTES:

1. Option to delivery order (Del Ord) contracts which allow indefinite delivery/indefinite quantity orders to be placed by site. Multiple award and delivery dates. Contract expires and a new contract will be competitively awarded in FY98.

2. Type and quantities of equipment being procured vary per location, e.g., squad, flight and headquarters kits.

3. Unit costs vary per equipment configuration at each location.

4. Example of contractor: MILCOM Systems Corp., Virginia Beach, VA.

5. Various types and quantities of physical security equipment are site dependent. Systems are composed of multiple sensors and sensor assessment equipment.

6. Example of contractor: Systems Planning Corp, Arlington, VA.

7. In FY96, the Air Force competed a new contract for the assessment segment (handheld thermal imagers) portion of the Tactical Automated Security Systems (TASS). In FY97, due to an "urgent and compelling requirement", the AF issued a sole source contract to TRW for TASS equipment for SWA. In FY98, the Air Force will compete the remainder of the TASS kit sensor system program with outyear follow-on delivery order options.

8. Examples of contractors: Perimeter Products, Mountain View, CA; Burrel Corp, Lancaster, PA; Kohu Inc., San Diego, CA; SMF Systems Corp, San Francisco, CA; International Creative Data Industries, Inc., Bethel, CT; MILCOM Systems Corp., Virginia Beach, VA.

9. Option to a five-year FY93 delivery order contract with Systems Planning Corp, Arlington, VA., prime contractor for fixed site security installations. Last year for orders is FY98; new contract will be competitively awarded in FY99.

D. REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.			
	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 76	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT TRAINING RANGES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	2.065	11.364	13.272	14.558	18.330	33.925	31.675	31.028

The Combat Training Ranges Program procures equipment for Air Force ranges to support training/evaluation of aircrews and operational testing of weapon systems and tactics under simulated combat conditions including air-to-air combat, air-to-ground combat, and electronic warfare. Upgrading range instrumentation systems is the primary purpose of this program. The original range instrumentation systems were known as Air Combat Maneuvering Instrumentation (ACMI) systems and provided real-time monitoring and control of aircraft during large forces exercise training as well as post-mission debriefing and analysis. The second generation systems, capable of handling 36 aircraft simultaneously, are referred to as Measurement and Debriefing Systems (MDS). The next generation upgrade, increasing the capacity to 100 aircraft, will begin procurement in the outyears under the Navy-lead Joint Tactical Combat Training System (JTCTS). The first ranges to be upgraded under this effort will be at Hill AFB, UT and the Yukon, with the remaining ranges systematically upgraded over the next decade. In the interim, aging computer systems will be replaced at selected ranges with open architecture systems capable of hosting the latest fielded software upgrades. In addition, security equipment will be added to all Air Force ACMI ranges, encrypting the data link required for training with Advanced Medium Range Air-to-Air Missile (AMRAAM).

1. **AIR COMBAT TRAINING SYSTEMS**

a. **TYNDALL RANGE EXPANSION:** The training range at Tyndall AFB, FL trains all F-15 air-to-air combat pilots in the USAF. Expansion of the over-water instrumented range area is required to facilitate training with AMRAAM. The upgrade to the Tyndall training range is critical to viability of initial qualification training of F-15 pilots. The upgrade expands current range coverage six fold through use of existing Global Positioning System (GPS) technology at a cost lower than the traditional multi-lateration system. FY96 funds procured ground system hardware and installation necessary for system interface with the GPS and will complete the expansion program. No FY98/99 funding is requested.

b. **NATIONAL TRAINING CENTER/AIR WARRIOR (NTC/AW) UPGRADE:** The basic NTC/AW program, completed in FY94, was a Congressional mandated joint program between the Army and Air Force. The Army has upgraded the Range Data Management System (RDMS) capabilities at Fort Irwin, CA, from 700 to 2200 ground participants with potential growth to 4400. An Air Force upgrade of the Air Warrior Measurement and Debriefing System (AWMDS) is critical to compatibility between the two systems. AWMDS is an important training device which provides near real-time feedback to Army and Air Force combatants on the effectiveness of close air support and air defense tactics. FY97 funds will be used to upgrade the Air Force part of the NTC/AW system to include ground system hardware and installation costs. No FY98/99 funding is requested.

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

c. **ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS):** The ADDS program is a joint Air Force/Navy program to provide a cost effective, highly versatile debriefing system that significantly improves aircrew access to MDS debriefing products. The system also provides a remote debriefing capability which dramatically increases utilization rates for Air Force instrumentation ranges. FY98 funds will procure special access ADDS for selected Air Force squadrons. FY97 and FY98 funds will procure special access ADDS for selected Air Force Squadrons. No FY99 funding is requested.

d. **ALPENA AIR NATIONAL GUARD (ANG) TRAINING RANGE:** This program will support the Alpena Combat Readiness Training Center (CRTC) at Alpena, Michigan. Reference FY96 Appropriations Conference Report 104-344, November 15, 1995, Page 92. FY97 funding will instrument the existing range with a Global Positioning System (GPS) tracking system. The system will allow live monitoring, contain a data link, and provide simulated weapon outcomes. Items to be procured will be non-developmental, commercial-off-the-shelf equipment. FY97 funds will purchase ground equipment including computers, a display and debriefing station, antennas and communication links. No FY98/99 funding is requested.

e. **AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES:** This effort, a "modular" approach to ACMI range upgrades, provides an interim AMRAAM weapons simulation capability for range training. Aging computational and control systems (CCS) and display and debriefing systems (DDS) with high sustainment costs, will be replaced with smaller, more capable, efficient open architecture computer systems capable of hosting the latest fielded software upgrade. In addition, security equipment and GPS capability will be added to each range to support an immediate need for AMRAAM training. The security equipment will encrypt the data link needed for AMRAAM training. The GPS capability will provide expanded range coverage also needed to accommodate AMRAAM training. The GPS capability will also reduce the number of ground stations needed, reducing sustainment costs.

The FY98 funding will procure selected equipment and installation at the following ranges:

Utah Test and Training Range (UTTR) - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

Gulfport ANGB MS - - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE FEBRUARY 1997				
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT TRAINING RANGES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

VOLK FIELD ANGB, WI - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

LANGLEY AFB, VA - Will replace DDS and install software block upgrades from Navy host CCS (Oceana/Cherry Pt NC) to provide GPS tracking, data link encryption and simulated AMRAAM firing.

SAVANNAH ANGB, GA - Will replace DDS and install software block upgrades from Navy host CCS (Beaufort SC) to provide GPS tracking, data link encryption and simulated AMRAAM firing.

FY99 funding will continue the ground equipment upgrades as well as fund installation of the JTCTS baseline software at the following ranges:

ELMENDORF AFB, AK - Will replace CCS and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing. Advanced DDS has already been installed.

EIELSON AFB, AK (Yukon) - Will replace CCS and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing. Advanced DDS has already been installed.

TYNDALL AFB, FL - Will replace CCS.

LUKE AFB, AZ - Will install encryption and AMRAAM simulation devices.

HOMESTEAD AFB, FL - Will replace CCS and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

JACKSONVILLE ANGB, FL - Will replace DDS and install software block upgrades from Navy host CCS (Beaufort SC) to provide GPS tracking, data link encryption and simulated AMRAAM firing.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT TRAINING RANGES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. **ANG/AFR:**

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			4.0			-
FY98			7.0			-
FY99			2.0			8.6

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	COMBAT TRAINING RANGES	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AIR COMBAT TRNG SYS		VAR	N/A	(2,065)	VAR	N/A	(11,364)	VAR	N/A	(13,272)	VAR	N/A	(14,558)
a. TYNDALL RANGE EXP	A			2,065									
b. NTC/AW	A						6,864						
c. ADDS	A						500			672			
d. ALPENA TRNG RANGE	A						4,000						
e. ACTS UPGRADES	A												
Utah Test & Training Range										10,000			
Gulfport ANGB, MS										700			
Volk Fld ANGB, WI										700			
Langley AFB, VA										600			
Savannah ANGB, GA										600			
Elmendorf AFB, AK													3,606
Eielson AFB, AK													3,000
Tyndall AFB, FL													1,677
Luke AFB, AZ													2,275
Homestead AFB, FL													3,000
Jacksonville ANGB,FL													1,000
TOTAL				2,065			11,364			13,272			14,558

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	53	81	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: COMBAT TRAINING RANGES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AIR COMBAT TRAINING SYSTEMS										
A. TYNDALL RANGE EXPANSION										
FY96	CUBIC DEFENSE SAN DIEGO, CA	OPT/FPIF [1]	AFMC/ASC	MAR 96	MAR 97	VAR	N/A [2]			
B. NTC/AW										
FY97	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	NOV 98	VAR	N/A [2]	YES	NO	
C. ADDS										
FY97	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	VAR	N/A [2]	YES	NO	
FY98	UNKNOWN	OPT/FFP	AFMC/ASC	FEB 98	JUL 98	VAR	N/A [2]	YES	NO	
D. ALPENA TRNG RANGE										
FY97	UNKNOWN	C/FFP	AFMC/ASC	AUG 97	AUG 98	VAR	N/A [2]	NO	YES	MAY 97
E. ACTS UPGRADES										
UTAH TEST & TRAINING RANGE										
FY98	UNKNOWN	C/FFP [3]	AFMC/ASC	JAN 98	OCT 99	VAR	N/A [2]	NO	YES	JUN 97
GULFPORT ANGB, MS										
FY98	UNKNOWN	C/FFP [3]	AFMC/ASC	JAN 98	JAN 99	VAR	N/A [2]	NO	YES	JUN 97

D. REMARKS

1. OPTION TO FY94 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.
2. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.
3. A REQUEST FOR PROPOSAL (RFP) WILL BE ISSUED BY AFMC/ASC ASKING FOR A SINGLE BID ON ALL FY98 FUNDED SITES. THE FY98 NEGOTIATED CONTRACT MAY, AT THE DISCRETION OF THE CONTRACTING OFFICER, HAVE SUBSEQUENT YEAR OPTIONS.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: COMBAT TRAINING RANGES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
VOLK FIELD ANGB, WI										
FY98	UNKNOWN	C/FFP [3]	AFMC/ASC	JAN 98	JAN 99	VAR	N/A [2]	NO	YES	JUN 97
LANGLEY AFB, VA										
FY98	UNKNOWN	C/FFP [3]	AFMC/ASC	JAN 98	JAN 99	VAR	N/A [2]	NO	YES	JUN 97
SAVANNAH ANGB, GA										
FY98	UNKNOWN	C/FFP [3]	AFMC/ASC	JAN 98	JAN 99	VAR	N/A [2]	NO	YES	JUN 97
ELMENDORF AFB, AK										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV 98	MAR 00	VAR	N/A [2]	NO	YES	JUN 97
EIELSON AFB, AK										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV 98	MAY 00	VAR	N/A [2]	NO	YES	JUN 97
TYNDALL AFB, FL										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV 98	JUL 00	VAR	N/A [2]	NO	YES	JUN 97
LUKE AFB, AZ										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV98	SEP 00	VAR	N/A [2]	NO	YES	JUN 97
HOMESTEAD AFRB, FL										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV98	NOV 00	VAR	N/A [2]	NO	YES	JUN 97
JACKSONVILLE ANGB FL										
FY99	UNKNOWN	C/FFP [3]	AFMC/ASC	NOV98	DEC 00	VAR	N/A [2]	NO	YES	JUN 97

D. REMARKS

1. OPTION TO FY94 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.
2. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.
3. A REQUEST FOR PROPOSAL (RFP) WILL BE ISSUED BY AFMC/ASC ASKING FOR A SINGLE BID ON ALL FY98 FUNDED SITES. THE FY98 NEGOTIATED CONTRACT MAY, AT THE DISCRETION OF THE CONTRACTING OFFICER, HAVE SUBSEQUENT YEAR OPTIONS.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MINIMUM ESSENTIAL EMERGENCY COMM NET				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	-	3.488	10.088	1.129	56.534	2.979	2.974

MEECN systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrence forces. The Defense IEMATS (Improved Emergency Message Automated Transmission System) Replacement and Command & Control Terminals (DIRECT) is a Strategic Nuclear Command and Control (C2) system directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the NCA. It will procure system hardware for the seven nuclear command centers and a Software Maintenance Facility which will allow transition from the Automated Digital Network (AUTODIN) as the primary communications channel to the Defense Message System (DMS). DIRECT will provide all current IEMATS requirements, including the build and release of Emergency Action Messages (EAMs), to allow the warfigther to remain responsive to NCA directives. DIRECT will be compatible with the Defense Message System (DMS) when it supplants the Automated Digital Network (AUTODIN). Procurement begins in FY98 with two systems procured and installed in FY98 to support IOT&E. The remaining six systems are procured and installed in FY99. Interim contractor support procurement is planned following IOT&E to certify the DIRECT system for Top Secret-SIOP messaging using DMS while organic capability is being phased in. Procurement funding complete in FY00.

RDT&E funding for MEECN DIRECT is reported in R-1, Appropriation 3600F Research Development Test & Evaluation, Air Force, Line #166, Program Element # 0303131F, Minimum Essential Emergency Communications.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MINIMUM ESSENTIAL EMERGENCY COMM NET	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1 DIRECT:													
System Hardware	B							Var	N/A	2,113	Var	N/A	6,339
ECP/ECOs										434			832
Type 1 Training										106			
Installation & Checkout													480
Pre-Operational Spares										530			808
Program Office Support										305			1,072
ICS													557
TOTAL										3,488			10,088

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMM NET

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
DIRECT										
FY98	GTE Government Systems Corp, Needham, MA	SS/CPAF	AFMC/ESC	Oct 97	Oct 98	VAR	N/A	Yes	No	-
FY99	GTE Government Systems Corp, Needham, MA	OPT/CPAF	AFMC/ESC	Oct 98	Oct 99	VAR	N/A	Yes	No	-

D. REMARKS

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
54	86	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE FORCE PROTECTION/ANTITERRORISM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	13.600	101.377	54.439	4.379	8.450	10.139	6.951	6.344

This program procures and installs communications, computers, vehicles, and associated physical security equipment for use in the force protection mission area. Equipment includes: Up-armored High Mobility Multipurpose Wheeled Vehicles (HMMWV), Tactical Automated Security Systems, Thermal Imagers, Under Vehicle Surveillance Systems, Closed Circuit Television Systems, and specialized surveillance, digital switching, and networking equipment. This specific funding is the result of focused planning, programming and budgeting to address shortfalls identified by the Air Force in the wake of the Khohbars Towers terrorist bombing attack and the resulting "Force Protection Assessment of USCENTCOM AOR and Khohbar Towers" report of the Downing Assessment Task Force. The FY96 funds were appropriated as an emergency supplemental to execute Operation DESERT FOCUS in Saudi Arabia. The FY97 funds were appropriated in accordance with the President's Proposal on Counterterrorism. The program objectives are to protect military personnel, civilian employees, family members, facilities, and equipment in all locations and situations through the planned and integrated implementation of antiterrorism, physical security, and personnel protection measures.

1. **DESERT FOCUS:** FY96 funds will procure and install the communications and computer equipment for Prince Sultan Air Base and Eskan Village in Saudi Arabia that is required to support the Central Air Forces (CENTAF) units that have relocated to the bases from less secure areas. FY96 funding will also procure and install Vehicle Mounted Thermal Imagers (VMTI) in HMMWVs. VMTIs provide mobile security patrols the ability to assess and detect hostile threats during periods of darkness and reduced visibility. Primary deployment of these assets will be to Southwest Asia.

2. **UP-ARMORED HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLES:** FY98 funds procure 253 HMMWVs for base defense, explosive ordnance disposal, and nuclear security force protection missions. These specialized HMMWVs will provide forces with the ability to respond to incidents while being protected against projectiles of up to 7.56MM.

3. **TACTICAL AUTOMATED SECURITY SYSTEM (TASS):** FY97/98/99 funds will procure TASS equipment for deployment to Southwest Asia and other immediate force protection needs. As a relocatable tactical detection and assessment capability, the TASS system can be rapidly deployed worldwide as required.

4. **HAND HELD THERMAL IMAGERS:** FY97 funds will purchase thermal imaging devices for use in the force protection environment. Thermal imagers allow security forces to detect and assess hostile threats during periods of reduced visibility. As a relocatable asset, thermal imagers can be rapidly deployed worldwide as required.

5. **UNDER VEHICLE SURVEILLANCE SYSTEMS (UVSS):** FY97 funds will purchase relocatable UVSSs for use by security forces in the force protection mission area. UVSSs will allow security forces to better detect unauthorized devices, e.g. bombs, that may be hidden underneath a vehicle. As a relocatable asset UVSSs can be rapidly deployed worldwide as required.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	55	87	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE FORCE PROTECTION/ANTI-TERRORISM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

6. CLOSED CIRCUIT TELEVISION SYSTEMS (CCTV): FY97 funds will purchase CCTV systems for use on flightlines and entry control points at Air Force bases around the world. Systems will allow security forces to survey large areas electronically from a remote location. Primary deployment location will be sites in Southwest Asia. Other OCONUS and CONUS locations will vary based on requirements; numbers of systems and their costs will vary on a site-by-site basis.

7. SPECIALIZED SURVEILLANCE/INVESTIGATIVE EQUIPMENT: FY97/98 funds will procure deployable surveillance and investigative equipment for use by the Office of Special Investigations' (AFOSI) Antiterrorism Specialty Teams. Equipment includes technical surveillance systems, compact thermal imagers, night viewing devices, and 8mm camera surveillance systems. These systems will enhance AFOSI agents' ability to conduct surveillance and countersurveillance activities, and to collect, assess, process and report terrorism threat information.

8. SPECIAL PROJECTS: FY97 funds procure Force Protection/Anti-Terrorism ground equipment for classified projects. Details are provided under a separate cover.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME FORCE PROTECTION/ANTITERRORISM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. DESERT FOCUS	A			(13,600)									
a. BASE COMMUNICATIONS		VAR	N/A[5]	13,100									
b. VMTI		50	10	500									
2. UP-ARMORED HMMWVs	A							253	194	49,096			
3 TACTICAL AUTOMATED SECURITY SYSTEMS	A				VAR[1]	N/A[1]	40,000	VAR[1]	N/A[1]	3,843	VAR[1]	N/A[1]	4,379
4. HAND-HELD THERMAL IMAGERS	A				100	10	1,000						
5. UNDER VEHICLE SURVEILLANCE SYSTEMS	A				20	40	800						
6. CLOSED CIRCUIT TELEVISION SYSTEMS	A				VAR[2]	N/A[2]	7,900						
7. SPECIAL SURVEILLANCE/ INVESTIGATIVE EQUIPMENT	A				VAR[3]	N/A[3]	953	VAR[3]	N/A[3]	1,500			
8. SPECIAL PROJECTS[4]	A						50,724						
TOTAL				13,600			101,377			54,439			4,379

REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5.	55	89	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME FORCE PROTECTION/ANTITERRORISM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

FOOTNOTES:

1. TASS: The TASS system includes four different types of kit configurations; headquarters, flight, squad, and flightline. Hardware components include sensors, communications modules, assessment devices, and alarm annunciators.
2. CCTV systems include cameras, viewing devices and associated hardware. Because each system is custom designed to a specific location there is no standard CCTV package. Unit cost is dependent on the type of CCTV package.
3. Multiple types of equipment procured with variable unit costs.
4. Classified projects; details provided under a separate cover.
5. Unit costs vary per equipment configuration at each location.

REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5.	55	90	Exhibit P-5 Weapon System Cost Analysis

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: FORCE PROTECTION/ANTI-TERRORISM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. DESERT FOCUS										
A. BASE COMMUNICATIONS										
FY96	MULTIPLE[1]	DEL ORD[4]	AFMC/ESC	VAR	VAR	VAR[3]	N/A[2]			
B. VEHICLE MOUNTED THERMAL IMAGERS										
FY96	UNKNOWN	C/FFP	ESC/AVJ	AUG 97	OCT 97	50	10,000	YES	NO	
2. UP-ARMORED HMMWVs										
FY98	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPT	AFMC/ WR-ALC	JAN 98	JAN 99	253	193,450	YES	NO	
3. TACTICAL AUTOMATED SECURITY SYSTEM										
FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	VAR[3]	N/A[2]			
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	SEP 98	VAR[3]	N/A[2]	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/ESC	DEC 98	SEP 99	VAR[3]	N/A[2]	YES	NO	
4. HAND-HELD THERMAL IMAGERS										
FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	100	10,000			
5. UNDER VEHICLE SURVEILLANCE SYSTEM										
FY97	UNKNOWN	C/FFP	ACC/SP	APR 97	SEP 97	20	40,000	YES	NO	

D. REMARKS
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE FORCE PROTECTION/ANTI-TERRORISM							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
6. CLOSED CIRCUIT TELEVISION SYSTEMS											
FY97	UNKNOWN	C/FFP	ACC/SP	APR 97	OCT 97	VAR[3]	N/A[2]				
7. SPECIALIZED SURVEILLANCE/ INVESTIGATIVE EQUIPMENT											
FY97	MULTIPLE[6]	C/FFP	AFMC/ASC	MULTI[6]	MULTI[6]	VAR[3]	N/A[2]	YES	NO		
FY98	MULTIPLE[6]	C/FFP	AFMC/ASC	MULTI[6]	MULTI[6]	VAR[3]	N/A[2]	YES	NO		
8. SPECIAL PROJECTS[5]											

FOOTNOTES:

1. Example of contractors: Northern Communications Systems, McLean, Va.
2. Unit costs vary per equipment configuration at each location.
3. Quantities of equipment are site dependent.
4. Option to delivery order contracts which allow indefinite delivery/indefinite quantity orders to be placed by site. Multiple award and delivery dates.
5. Classified projects; details provided under a separate cover.
6. Multiple contractors with multiple award dates and delivery dates.

D. REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.			
	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 92	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE C3 COUNTERMEASURES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	10.393	9.128	14.904	10.847	10.538	12.040	10.461	17.785

Air Force Information Warfare (IW) is in its infancy...operationally and doctrinally. The increasing technical sophistication of the AF leads to a dependency on technology which, in turn, may represent potentially crippling vulnerabilities. The Air Force is on the leading edge of this new Cyber Dimension of Air Warfare. IW capitalizes on the growing sophistication, connectivity, and reliance on information technology. IW is any action to deny, exploit, corrupt or destroy the enemy's information and its functions; protecting ourselves against those actions; and exploiting our own military information functions. Command and Control Warfare (C2W) is a warfighting application of IW in military operations. Methods used to conduct information warfare include electronic warfare (EW), psychological operations, military deception, physical attack, information attack, and various security measures. The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), and Joint Command and Control Warfare Center (JC2WC) are responsible for IW and C2W operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment (computer, computer related, communications, and unique intelligence and analysis systems) that is vital to accomplish and support IW and C2W missions. Elements of the program are addressed individually below.

1. **AIR FORCE INFORMATION WARFARE CENTER (AFIWC) SUPPORT:** AFIWC is the AF center of excellence under the direction of AIA. AFIWC provides technical assistance to the AF for IW and EW analysis and strategy for combat preparation, planning, and operations and weapon systems development and assessment. A brief description by project follows:

a. **ADP UPGRADES**: Replaces basic AFIWC internal computer infrastructure and network requirements for administrative and management functions.

b. **MODELING AND SIMULATION**: Conducts AFIWC IW analysis. Permits AFIWC to provide detailed analysis and graphic displays vital to protection of US aircraft and assessment of U.S. EW systems.

c. **COMMUNICATIONS SECURITY ASSESSMENT SUPPORT**: Monitors friendly unsecured telecommunications to provide USAF commanders an Operations Security (OPSEC) vulnerability assessment of their units. No FY98 funds requested.

d. **RED FORCE**: Provides realistic communications and radar jamming to aircrews around the world to prepare aircrews, weapons controllers and C2 personnel to operate in a communications and radar jamming environment. No FY98/99 funds requested.

e. **TELECOMMUNICATIONS SYSTEMS ANALYSIS POSITIONS (TSAP):** Monitors digital voice, data, facsimile, and video in an integrated package.

f. **C2W OPERATIONS SUPPORT (formerly called CONSTANT WEB)**: Maintains the integrated C2W knowledge base which is an approved migration data base for C2W operations and was a proven capability in Desert Storm/Desert Shield.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE C3 COUNTERMEASURES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

g. **INFORMATION WARFARE**: Supports the integration of C2W decision aids into combat planning and execution cycles.

h. **OFFENSIVE IW**: FY97 and FY98 initiatives support the AF goal of information superiority. Integrates offensive capability in AF combat and mission rehearsal operations. Supports IW analysis vital to deliver timely AF IW capability for training and combat operations.

In support of the above systems:

FY96 dollars procured desktop computers, servers, Ultrasparc workstations, high performance (HP) workstations, first-generation HP workstations, second generation HP workstations, deployable HP workstations, database servers and classified systems.

FY97 dollars will procure desktop computers, network equipment, uninterruptible power supplies, Ultrasparc workstations, HP workstations, first generation HP workstations, deployable systems, servers, data base servers and productivity and analysis tools

FY98 dollars will procure network servers, PC's, peripherals and connectivity for three classified networks, HP workstations, first generation HP workstations, second generation systems, deployable workstations, servers, data base servers, and productivity and analysis tools.

FY99 dollars will procure advanced workstations, HP workstations, first generation HP workstations, second generation systems, deployable workstations, data base servers, productivity and analysis tools, multiple processor work stations, peripherals, servers and, single processor workstations.

2. JOINT COMMAND AND CONTROL WARFARE CENTER (JC2WC): The JC2WC provides joint force commanders (combatant commanders, subordinate unified commanders, and joint task force commanders), service component commanders and functional component commanders direct command and control warfare (C2W) support. The JC2WC supports the integration of the constituent elements of C2W -- operations security, psychological operations, military deception, EW and destruction as well as the non-combat military applications of IW -- throughout the planning and execution phases of operations. The JC2WC provides predictive analysis and post event mission analytic support to U.S. forces involved in contingency operations. The JC2WC analyzes and correlates all-source data on both friendly and threat forces involved in contingency operations. This data is used as input into sophisticated C2W computer models and simulations. These high-fidelity models incorporate complex radar detection analysis calculations and anomalous propagation (such as atmospheric ducting over land) to provide field commanders composite analytic pictures. The JC2WC provides tactics and technical evaluations to include integrated soft/hard kill options and technical feasibility and trade-offs. This analysis results in a complete assessment of C2W options and effectiveness predictions. FY96-99 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE C3 COUNTERMEASURES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

storage capacity must be added to the JC2WC analysis networks and systems to improve performance of C2W computer models. Workstations are replaced approximately every three years. Funding also provides for field commander automated support capability, automated support for EW/C2W training simulations, and equipment required to provide operational test support for the Services, Joint Staff and DoD test agencies.

3. **INFORMATION WARFARE SQUADRON (IWS):** The Chief of Staff of the Air Force has stated that mastering IW is pivotal to our national security in the 21st century. As such, the 609th Information Warfare Squadron (IWS) at Shaw AFB, SC represents the vanguard of AF operational IW. This first-of-a-kind front line combat unit is the AF's initial move to merge current doctrinal concepts into operational capabilities. The IWS will be involved in all facets of IW from planning to execution. They will deploy to support the Joint Force Air Component Commander (JFACC) within the Air Operations Center (AOC). FY96 and FY98 purchases are classified as well as the vendors. Information provided on a need-to-know basis.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME C3 COUNTERMEASURES	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AFIWC SUPPORT		VAR	N/A	(5,465)	VAR	N/A	(7,551)	VAR	N/A	(9961)	VAR	N/A	7336
a. ADP UPGRADES	A			194			210			212			221
b. MODELING AND SIMULATION	A			474			519			552			603
c. COMSEC ASSESSMENT SPT	A			334			425						458
d. RED FORCE	A			334			425						
e. TSAP	A			1,365			1,193			1,172			1,119
f. C2W OPS SUPPORT	A			494			320			331			338
g. INFORMATION WARFARE	A			2,270			4,459			2,315			384
h. OFFENSIVE IW	A									5379			4213

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME C3 COUNTERMEASURES	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
2. JC2WC		VAR	N/A	(2,031)	VAR	N/A	(1,577)	VAR	N/A	1754	VAR	N/A	3511
a. EC ANALYST NETWORK	A			406			517			694			683
b. COMBAT ANALYSIS SYSTEM	A			180			230			100			2000
c. FIELD COMMANDERS SUPPORT	A			665			180			200			200
d. COMPUTERIZED TRAINING SIMULATION	A			180			175			260			400
e. C2W TEST SUPPORT	A			600			475			500			228
3. INFORMATION WARFARE SQUADRON (Classified program)	A	VAR	N/A	2,897				VAR	N/A	3,189			
TOTAL				10,393			9,128			14,904			10,847

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: C3 COUNTERMEASURES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AFIWC SUPPORT										
A. ADP UPGRADES										
FY96	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
B. MODELING AND SIMULATION										
FY96	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
C. COMSEC ASSESSMENT SPT										
FY96	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
D. RED FORCE										
FY96	LORAL/RAYTHEON [3]	OPTION [3]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	LORAL/RAYTHEON [3]	OPTION [3]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	

D. REMARKS
1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
3. LORAL, LAS VEGAS, NV. RAYTHEON , GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
5. UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:
6. AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON , GALETA, CA .
7. JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: C3 COUNTERMEASURES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
E. TSAP										
FY96	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
F. C2W OPERATIONS SUPPORT										
FY96	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
G. INFORMATION WARFARE										
FY96	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
H. OFFENSIVE IW										
FY98	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[6]	OPT/FP [4]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	

D. REMARKS

1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
3. LORAL, LAS VEGAS, NV. RAYTHEON , GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
5. UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

6. AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON , GALETA, CA .
7. JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: C3 COUNTERMEASURES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. JC2WC SUPPORT										
A. EC ANALYST NETWORK										
FY96	DIA/MULTIPLE [5]	MIPR/OPT [5]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	DIA/MULTIPLE [5]	MIPR/OPT [5]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	DIA/MULTIPLE [5]	MIPR/OPT [5]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	DIA/MULTIPLE [5]	MIPR/OPT [5]	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
B. COMBAT ANALYSIS SYSTEM										
FY96	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
C. FIELD COMMANDERS SUPPORT										
FY96	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	

D. REMARKS

1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
3. LORAL, LAS VEGAS, NV. RAYTHEON , GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
5. UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

6. AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON , GALETA, CA .
7. JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: C3 COUNTERMEASURES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
D. COMPUTERIZED TRAINING SIMULATION										
FY96	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
E. C2W TEST SUPPORT										
FY96	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]			
FY97	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE[7]	C/FP	HQ AIA	MULTI [1]	MULTI [1]	VAR	N/A [2]	YES	NO	
3. INFORMATION WARFARE SQUADRON										
FY96			HQ ACC							
FY98			HQ ACC							
(CLASSIFIED INFORMATION)										

D. REMARKS
1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
3. LORAL, LAS VEGAS, NV. RAYTHEON , GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
5. UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:
6. AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON , GALETA, CA .
7. JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE JOINT SURVEILLANCE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	-	-	11.444	4.864	1.987	5.035	5.273

The Joint Surveillance System is a major component of the Integrated Tactical Warning and Attack Assessment (ITW/AA) system. The ITW/AA is used by North American Air Defense (NORAD), a bilateral United States and Canadian military command, to provide warning of an atmospheric (aircraft) or exoatmospheric (missile) attack on North America. Within the ITW/AA system, the primary mission of the JSS is the maintenance of air sovereignty over the North American continent. Funding for the following JSS project begins in FY99:

R/SAOC MODERNIZATION

The Region/Sector Air Operations Center (R/SAOC) computer system processes, integrates, displays and stores data from existing surveillance, command and control and intelligence systems that comprise the atmospheric portion of the ITW/AA system. It receives, forwards, and exchanges that data over designated ITW/AA communications networks. The R/SAOC computer forwards processed ITW/AA data to support strategic and tactical decision-makers with accurate air defense data to provide support for regional aircraft control/intercept missions, including counterdrug operations. The modernized R/SAOC computer system will be a state-of-the art open architecture of modular design that employs a commercial-off-the-shelf/government-off-the-shelf (COTS/GOTS) hardware and software system. It will accommodate all present operational requirements with expansion capabilities to incorporate any new national missile defense, cruise missile defense, and space based sensors. In addition, the new system will require fewer personnel to operate and maintain, thus ensuring maximum reduction of associated operations and maintenance costs. The modernized system will replace the existing AN/FYQ-93 system, a 1970s proprietary design that has reached its saturation point, cannot support the expanding mission, and is becoming increasingly difficult to maintain.

FY99 funds will procure new prime mission equipment (PME) and provide for site activation and communications upgrades for the Western Air Defense Sector (WADS) and the Alaskan R/SAOC; provide interim contractor support (ICS); and provide for other program support costs such as installation and testing of new equipment, system engineering, program management and data preparation.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	JOINT SURVEILLANCE SYSTEM	See Manufacturing Information On P-5a

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
R/SAOC MODERNIZATION	A										VAR	N/A	11,444
a. PME													(7,000)
WADS													4,100
ALASKAN R/SAOC													2,900
b. SITE ACTIVIATION/ COMM EQUIPMENT MODERNIZATION	A												(900)
WADS													520
ALASKAN R/SAOC													380
c. ICS	A												(500)
WADS													275
ALASKAN R/SAOC													225
d. PROGRAM SUPPORT	A												(3,044)
SYS ENG/PRG MGT													2,535
DATA/OTHER													509
TOTAL													11,444

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	57	103	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: JOINT SURVEILLANCE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
R/SAOC MODERNIZATION										
A. PRIME MISSION EQUIPMENT										
FY99	UNKNOWN	C/CPAF	AFMC/ESC	DEC 98	APR 99	VAR	N/A [1]	NO	YES	JUL 97
B. COMM EQUIP MODERNIZATION										
FY99	UNKNOWN	C/CPAF	AFMC/ESC	DEC 98	APR 99	VAR	N/A [1]	NO	YES	JUL 97

REMARKS:
1. VARIOUS TYPES OF EQUIPMENT BEING INSTALLED AT BOTH THE WADS AND ALASKAN R/SAOC RESULT IN VARYING UNIT COSTS.

P-1 SHOPP LIST ITEM NO. 57

PAGE NO. 104

Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	26.665	22.385	46.778	36.665	37.719	49.032	22.427	22.439

Base Level Data Automation consists of several standard Air Force-wide base level computer programs. These programs include automation support of 12 major base level functions such as maintenance, munitions, finance, civil engineering, transportation and supply. All of these programs support the day-to-day activities of base operations. They provide productivity gains, save manpower, and increase the overall efficiencies of base level functions. Some programs such as Wing Automatic Data Processing support the consolidation of ADPE, providing the migration to open systems architecture and software standardization at Regional Processing Centers (RPCs) based on the Ada programming language. These programs are key to the Air Force's Global Engagement doctrine. They provide the warfighter with a "one update-one time" data processing environment.

1. **WING AUTOMATIC DATA PROCESSING SUPPORT (WAS):** This program provides for Life Cycle Management (LCM) of Standard Base Level Support (SBLS) through computer systems for Air Force installations worldwide. During both peace and wartime contingencies, bases are provided hardware/software tools and services to maintain base level support at base-level and regionalized sites in support of flight line maintenance, supply, accounting and finance, budget and personnel service systems at active duty Air Force Bases, Air National Guard, Air Force Reserve installations, and Defense Megacenters. This program sustains the support provided to our bases and does not develop new systems or application code. FY96-99 funding continues to provide hardware upgrades and communications interfaces. Failure to fund these upgrades could make the entire standard base-level computer support system inoperative, degrading or disabling the functions of our warfighting missions.

2. **WORK INFORMATION MANAGEMENT SYSTEM (WIMS)/SERVICE INFORMATION MANAGEMENT SYSTEM (SIMS)/BASE CONTRACTING AUTOMATION SYSTEM (BCAS):** This program will procure/install additional capability for the Regional Processing Centers (RPC) to accommodate the regionalization of WIMS/SIMS/BCAS. This regionalization is critical to meeting DoD initiatives that require an open systems architecture with consolidated computer support at RPCs. This effort will provide services at the RPCs for the data automation systems used by Civil Engineers; Morale, Welfare and Recreation Services; and Base Contracting communities. These systems currently reside on Wang proprietary mini-computers. FY96 funds procured servers to begin the process of regionalizing WIMS/SIMS/BCAS. FY97 and 98 funds will buy additional servers and communications equipment for outside CONUS Regional Processing Centers (RPCs) and CONUS Defense Megacenters (DMCs). Exact numbers of servers depends on proper sizing based on increasing technological capabilities at time of purchase. No FY99 funding is requested.

3. **AIR EDUCATION AND TRAINING COMMAND (AETC) WANG REPLACEMENT:** This program provides information flow from data systems that are critical to the mission of the civil engineers for managing the design, construction, repair, and maintenance of facilities at the 13 major installations within AETC, valued at more than $11 billion dollars. Included in this effort is the transition from Wang proprietary mini-computers to open systems architecture, and also the installation of local area networks (LANs) at each civil engineering site. These sites will then be connected to a wide area network (WAN) to achieve the necessary communications between each site, major command, HQ USAF, and other functions. This program procures computer hardware and network

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

software needed to satisfy the LAN/WAN requirement and mission objects. FY96 funds procured network communications interfaces, a limited amount of communications infrastructure, network servers and associated software that are not part of any other initiative. No FY98/99 funding is requested.

4. **CARGO MOVEMENT OPERATIONS SYSTEM (CMOS):** This program supports the FY87 Joint Chiefs of Staff (JCS) direction and the FY89-93 Defense Guidance that tasked the Services to develop a capability to provide timely and accurate passenger/cargo movement information during force deployments. Further system development and implementation are consistent with the FY95-99 Defense Guidance that called for support systems to provide "rapid strategic mobility, and sufficient support and sustainment capabilities." CMOS provides an integrated transportation system capability for routine deployment and sustainment operations by employing the same DoD and Service shipment policies and procedures in peace and war. 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 is a major contributor to system in-transit visibility and control over cargo and passenger movement, and is fielded worldwide at 77 active duty Air Force, 92 Air National Guard (ANG) and 13 Air Force Reserve (AFRES) locations. FY98-99 funds will procure Radio Frequency (RF) Access Technology hardware to enable current hand-held terminals to scan bar-coded shipping labels and transmit the data electronically via RF to the CMOS server for processing.

5. **GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE (GCSS-AF) (Formerly called Base Level Systems Modernization (BLSM):** The GCSS-AF program was created to re-engineer and redesign standard base-level computer systems that support base-level functions as well as enhance war fighting capabilities. The program modernizes approximately 36 computer application systems consisting of 13 plus million lines of code encompassing 12 different functional areas. The modernized systems provides the following: (1) greater functionality for the users; (2) interoperability and easier interfaces with other systems through enhanced data sharing and standardization; (3) systems that can be modified easier and faster to meet changing mission requirements; and (4) systems that can be ported to various hardware/software platforms in an open systems environment. GCSS postures the standard computer systems for movement to the open systems environment. This program increases the operational readiness of all base-level Automated Data Systems (ADS) supporting critical war-fighting weapon systems, reduces logistics support costs, improves productivity, and provides critical decision-making information at the point of attack for operational commanders. FY97 funding for GCSS will be used to provide full implementation hardware for the three technical lead ADSs, the Air Force Operations Resource Management System, Manpower Data System, and Logistics Module (LOGMOD-B) at the RPCs and base level, and also purchase the tools necessary to modernize the remaining systems in the Standard Base Level Computer environment. No FY98/99 funding is requested.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

6. **FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS):** FAMS is a fuels data collection/information management system that uses state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations. FAMS: (1) addresses critical needs in managing USAF fuels; (2) reduces the current two percent error rate in a $4 billion annual fuels budget; (3) reduces the risk of loss of life and property; (4) reduces USAF fuels management manpower; and (5) provides accurate information for war planning, which increases the USAF's ability to respond to threats. It eliminates much of the paperwork and manual input in today's fuels management, providing total asset visibility while improving cash flow, credit management, and just-in-time inventory. One hundred thirteen (113) manpower positions were given up based on projected FAMS savings. FAMS also provides the more important benefits associated with safety and the environment. Independent cost-benefit analysis shows FAMS will provide total savings of $161 million when fully implemented. The system consists of three hardware components that collect fuel transactions and inventory data at base level for service stations (Automated Fuels Service Stations (AFSS)), storage tanks (Automatic Tank Gauging (ATG) devices), and aircraft refueling systems (Automated Data Collection/Fuel Dispensing Systems (ADC/FDS)). In addition FAMS sustains an information management system to support all users. At the Air Force level, FAMS enhances the aviation fuel tracking/billing system. FY96 and prior year funding initiated FAMS installation. FY97 funds will continue procurement/installation of approximately 2022 ATG devices in U.S. Air Forces Europe (USAFE), the CONUS, and Pacific Air Forces (PACAF), and ADC systems to support approximately 10,000 aircraft and metering devices for fuel dispensing systems/equipment. FY98 will fund system test and the installation of 50 ATG devices and 975 ADC/FDS systems in PACAF; and installation of 150 ATG devices and equipment at 34 AFSS at Air National Guard sites. FY99 continues installation of ATG devices and ADC systems in the Pacific.

7. **INFORMATION PROCESSING MANAGEMENT SYSTEMS (IPMS):** FY96 funding continued the effort begun in prior years to procure hardware necessary to upgrade IPMS in a planned fashion to enable handling of increasingly sophisticated ADPE inventory management requirements. It provides the capability to handle an increasingly larger ADPE inventory database, manage the DoD mandated fee-for-service inventory tracking, and provide configuration management capability for ADPE managers, providing a more real-time response for on-line users. Upgrades included central processors, storage devices, and front-end processors which replaced older, more expensive mainframe with a more cost-effective, maintainable hardware platform. IPMS is installed at the Standard Systems Group and provides remote access to users throughout the Air Force. No FY98/99 funding is requested.

8. **STANDARD PROCUREMENT SYSTEM (SPS):** SPS will replace all DoD non-classified procurement information systems and databases and provide over 51,000 DoD procurement professionals (approximately 7500 Air Force) with an automated information system (AIS) based on standard DoD procurement processes and DoD standard data. Reference Air Force Descriptive Summary, Program Element 38610, Budget Activity 7, Information Management Automation for the RDT&E portion of the SPS program. The Air Force, along with other DoD procurement agencies supporting SPS, has the acquisition responsibility to provide hardware and communications connectivity to support the SPS. Funding for FY98 and FY99 will purchase computer hardware and

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

associated software, local area networks, servers, Fortezza cards, and communications infrastructure at the Major Commands and base level contracting offices.

9. **INTEGRATED MAINTENANCE DATA SYSTEM (IMDS) SYSTEM**: This program provides the equipment to support the deployment of IMDS. The IMDS program is an evolutionary acquisition program to develop and field a standard Air Force maintenance information system. The final IMDS systems will replace all existing legacy systems supporting Air Force maintenance activities with a single integrated open architecture, modern decision support system. This enhanced decision support system will increase operational production capability and support system efficiency while decreasing our mobility footprint and cost of operations. FY95/96/97 RDT&E funds are under Program Element 603108F, R1 Integrated Data Systems. Air Force Other Procurement funding for FY98 and FY99 will purchase computer hardware, local area networks and servers as needed at Air Force Wings, Depots, Major Commands, and HQ USAF for IMDS deployment.

10. **PERSONNEL ADMINISTRATION:** This program provides the equipment to modernize the Manpower and Personnel Base-Level (MANPER-B) portion of the Deliberate and Crisis Action Planning and Execution System (DCAPES). FY98/99 funding will procure commercial-off-the-shelf (COTS) desktop and notebook computers and secure telephone equipment to replace the current inventory of in-garrison/deployable DCAPES/MANPER-B computers for Air Force Personnel Center. This will eliminate critical shortfalls in meeting DoD, Joint Chief of Staff, and AF total force personnel accountability and reporting requirements. It will also support unclassified/classified data reporting over Defense Data Network (DDN) as mandated by DoD.

11. **ANG/AFR:** The following is a breakout of funding for equipment used by ANG/AFR within this P-1 line.

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	-		2.952		-		.634
FY97	-		1.727		-		.350
FY98			0				0
FY99			0				0

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 108	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE LEVEL DATA AUTOMATION	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. WING ADP SUPPORT	A	VAR	N/A	5,941	VAR	N/A	5,184	VAR	N/A	6,982	VAR	N/A	7,675
2. WIMS/SIMS/BCAS	A	VAR	N/A	1,976	VAR	N/A	5,685	VAR	N/A	4,749			
3. AETC WANG REPL	A	VAR	N/A	2,237									
4. CMOS	A	VAR	N/A	183				VAR	N/A	414	VAR	N/A	323
5. GCSS-AF	A	VAR	N/A	11,516	VAR	N/A	8,196						
6. FAMS	A	VAR	N/A	4,052	VAR	N/A	3,320	VAR	N/A	9,856	VAR	N/A	9,603
7. IPMS	A	VAR	N/A	760									
8. SPS	B							VAR	N/A	17,725	VAR	N/A	14,147
9. IMDS SYSTEM	B							VAR	N/A	2,866	VAR	N/A	2,827

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	58	109	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE LEVEL DATA AUTOMATION	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
10. PERSONNEL ADMIN	A							VAR	N/A	4,186	VAR	N/A	2,090
TOTAL				26,665			22,385			46,778			36,665

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE LEVEL DATA AUTOMATION

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. WING ADP SUPPORT										
FY96	MULTIPLE	OPT/FP [1]	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A [2]			
FY97	MULTIPLE	OPT/FP [1]	AFMC/ESC-SSG	NOV 96	JAN 97	VAR	N/A [2]			
FY98	MULTIPLE	OPT/FP [1]	AFMC/ESC-SSG	NOV 97	JAN 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [1]	AFMC/ESC-SSG	NOV 98	JAN 99	VAR	N/A [2]	YES	NO	
2. WIMS/SIMS/BCAS										
FY96	PRC CORP	OPT/FP [3]	AFMC/ESC-SSG	MAY 96	NOV 96	VAR	N/A [2]			
FY97	PRC CORP	OPT FP [3]	AFMC/ESC-SSG	MAR 97	JUN 97	VAR	N/A [2]	YES	NO	
FY98	PRC CORP MCLEAN, VA	OPT/FP [3]	AFMC/ESC-SSG	MAR 98	JUN 98	VAR	N/A [2]	YES	NO	
3. AETC WANG REPL										
FY96	ELECT SYSTEMS RICHMOND, VA	C/FP	HQ AETC	MAR 96	JUN 97	VAR	N/A [2]			
4. CMOS										
FY96	INTERMIC CORP,	OPT/FP [4]	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A [2]			
FY98	INTERMIC CORP.	OPT/FP [4]	AFMC/ESC/SSG	OCT 97	MAR 98	VAR	N/A [2]	YES	NO	
FY99	INTERMIC CORP. EVERETT, WA	OPT/FP [4]	AFMC/ESC/SSG	OCT 98	MAR 99	VAR	N/A [2]	YES	NO	

D. REMARKS

1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.
3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.
4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP.
5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY)
6. OPTIONS TO DT IV AND V STANDARD CONTRACTS.
7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
58	111	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE LEVEL DATA AUTOMATION

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
5. GCSS-AF										
FY96	LOCKHEED MARTIN FEDERAL SYSTEMS	C/FP	AFMC/ESC-SSG	MAY 96	AUG 96	VAR	N/A [2]			
FY97	LOCKHEED MARTIN FEDERAL SYSTEMS COLORADO SP, CO	OPTION/FP	AFMC/ESC-SSG	NOV 96	JAN 97	VAR	N/A [2]			
6. FAMS										
FY96	MULTIPLE	OPT/FP [5]	USAFE & AFMC/ SAALC	APR 96	JUN 96	VAR	N/A [2]			
FY97	MULTIPLE	OPT/FP [5]	USAFE & AFMC/ SAALC	NOV 96	JAN 97	VAR	N/A [2]			
FY98	MULTIPLE	OPT/FP [5]	AFMC/SAALC	NOV 97	JAN 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [5]	AFMC/SAALC	NOV 98	JAN 99	VAR	N/A [2]	YES	NO	
7. IPMS										
FY96	UNISYS MONTGOMERY, AL	C/FP	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A [2]			

D. REMARKS

1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.
3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.
4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP.
5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY)
6. OPTIONS TO DT IV AND V STANDARD CONTRACTS.
7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
58	112	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE LEVEL DATA AUTOMATION

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
8. STD PROCUREMENT SYSTEM (SPS)										
FY98	MULTIPLE	OPT/FP [6]	11 SPT WG	FEB 98	JUN 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [6]	11 SPT WG	FEB 99	JUN 99	VAR	N/A [2]	YES	NO	
9. IMDS SYSTEM										
FY98	SUN MICRO SYS HUGHES DATA SYS	OPT/FP [7]	AFMC/ESC	FEB 98	AUG 98	VAR	N/A [2]	YES	NO	
FY99	SUN MICRO SYS MTN VIEW, CA HUGHES DATA SYS IRVINE, CA	OPT/FP [7]	AFMC/ESC	FEB 99	AUG 99	VAR	N/A [2]	YES	NO	
10. PERSONNEL ADMIN										
FY98	MULTIPLE	OPT/FP [1]	HQ AFPC	NOV 98	JAN 99	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE	OPT/FP [1]	HQ AFPC	NOV 99	JAN 00	VAR	N/A [2]	YES	NO	

D. REMARKS

1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.
3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.
4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP.
5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY)
6. OPTIONS TO DT IV AND V STANDARD CONTRACTS.
7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT CORE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	51.485	47.897	48.989	45.886	50.315	55.191	48.272	46.884

The Theater Battle Management Core System (TBMCS) procurement line funds the purchase of state-of-the-art equipment to satisfy Air Force requirements for automated support of command and control (C2) functions at both force and wing levels worldwide. TBMCS encompasses four principal constituent systems: (1) the Contingency Theater Automated Planning System (CTAPS), (2) the Wing Command and Control System (WCCS), (3) the Command and Control Information Processing System (C2IPS), and (4) the Combat Intelligence System (CIS). As the functions of the constituent systems migrate into an integrated system, the funding for the constituent procurements are programmed under the title of the umbrella system (TBMCS). Funding is requested for the constituent CTAPS and WCCS during FY96 and FY97, but funding is requested for the integrated system during FY98 and FY99. The Combat Intelligence System (CIS), another function of TBMCS, is funded in the P-1 Line Intelligence Data Handling System, # 38.

1. **THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS):** FY98/99 funds will provide technical upgrades to the fielded Air Operations Centers (AOCs) necessary for them to sustain operations in the information-rich world of the future. The funds will also procure a full complement of equipment for four (4) wing level installations in FY98 (Kadena AB, JPN; Nellis AFB, NV; Kunsan AB, ROK; and Davis-Monthan AFB, AZ), and five installations during FY99 (Yokota AB, JPN; Moody AFB, GA; Pope AFB, SC; Hickam AFB, HI; and one Guard/Reserve base). Additionally, FY98/99 funds initiate procurement, integration, and deployment of the Combat Integration Capability (CIC) into the AOCs to process time critical targets (TCTs) during the execution of daily operations. The CIC will allow the commander to monitor the battle space, discriminate TCTs from other tactical activity, identify the best available weapon to engage the TCT, and coordinate engagement of the weapon and weapon platform. Also included in the FY98 request are two deployable Information Processing System (IPS) Nodes to be fielded at Ramstein AB Germany, and one fixed IPS Node to be fielded at Mildenhall AB, UK. These Nodes provide command and control visibility of Air Mobility Command (AMC) missions and assets. FY98/99 funds also provide Type I training, engineering support, system program office support, and required software licenses for TBMCS applications.

a. **CONTINGENCY THEATER AUTOMATED PLANNING SYSTEM (CTAPS):** CTAPS provides a joint standard for execution and planning of Air Tasking Orders (ATOs) at the Air Operations Center (AOC), supporting fixed and deployed contingency air operations under a Joint Forces Air Component Commander (JFACC). It permits the JFACC and his staff to adjust planning in response to changing battlefield conditions and provides the means to produce, disseminate and execute the daily ATO. The system will replace cumbersome manual processes and directly support the JFACC in planning and executing the theater air campaign down to the unit level. CTAPS government furnished equipment (GFE) consists of commercial-off-the-shelf (COTS) workstations/servers, network equipment and initial software licenses necessary to operate CTAPS.

Furthermore, CTAPS provides upgraded shelters and essential computer and communications equipment at both the Air Operations Centers and the Air Support Operations Centers (ASOC). The ASOC is critical link between engaged ground forces and air operations; it is colocated with the Army Corps, tying the

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT CORE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

Forward Air Controller (FAC) to the combat operations cell of the AOC. CTAPS will enhance the speed and accuracy of JFACC responses to Army air support requirements.

FY96 funds procured (1) AOC government furnished equipment (GFE) procurement at Continental U.S. (CONUS), U.S. Air Forces in Europe (USAFE) and Pacific Air Forces (PACAF) sites; (2) seven ASOC shelters with associated integration and assembly, workstations and other GFE for the ASOC squadrons operating from Shaw AFB, SC; Ft Hood, TX; Korea and Germany; and (3) CTAPS GFE for the AF Special Operations Command (AFSOC).

FY97 funds will: (1) procure the last five ASOC shelters with associated integration and assembly, workstations and other GFE to complete the ASOC implementation in Germany and for squadrons at Murray, WA; and Peoria, IL; (2) begin technical upgrades for all fielded CTAPS workstations; and (3) procure additional CTAPS GFE for AFSOC.

FY96-97 funds also provide Type 1 training and engineering support for CTAPS implementation at the numbered Air Forces and continue ongoing engineering support to the production and deployment effort.

FY98-99 are discussed at the TBMCS level above (see paragraph 1).

b. **WING COMMAND AND CONTROL SYSTEM (WCCS):** WCCS provides workstations and local area networks to give wing level commanders and battle staffs a timely and accurate composite picture of wing resources, enabling effective decision-making and increasing sortie generation capability. WCCS is the TBMCS constituent system that receives and disseminates C2 information at the wing level.

FY96 funding procured a full complement of equipment for Osan AB, ROK; Langley AFB, VA; and a partial complement of equipment for Air Force Special Operations Command (AFSOC) contingents at Kadena AB, JPN and Osan AB, ROK.

FY97 funding procures a full complement of equipment for Incirlik AB, Turkey; Shaw AFB, SC; AFSOC at Hurlburt Field, FL; and a partial complement of equipment for an AFSOC contingent at RAF Mildenhall, UK.

Additionally, FY96-97 funding provides for Type-I Training and engineering/program support for WCCS implementation/deployment efforts.

FY98-99 are discussed at the TBMCS level above (see paragraph 1).

(continued)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT CORE SYSTEM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

ANG/AFR: The following resources are allocated to extending WCCS workstations and networks to ANG/AFR tenants during installation at active air bases.

	ANG				AFR		
	QTY		COST		QTY		COST
FY96	-		.175		-		.400
FY97	-		.175		-		.400
FY98	-		.175		-		.400
FY99	-		.175		-		.400

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WEAPON SYSTEM COST ANALYSIS
(EXHIBIT P-5)

D. DATE FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	THEATER BATTLE MANAGEMENT CORE SYSTEM	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. TBMCS	A							VAR	N/A	(48,989)	VAR	N/A	(45,886)
HARDWARE													
CTAPS AOC								VAR	N/A	12,483	VAR	N/A	5,580
WCCS								VAR	N/A	13,824	VAR	N/A	19,950
CIC								VAR	N/A	9,500	VAR	N/A	9,500
IPS NODES								3	1,100	3,300			
COTS SW LICENSES								VAR	N/A	3,000	VAR	N/A	3,500
TYPE 1 TRAINING										1,400			1,540
ENG./SPO SPT.										5,482			5,816
A. CTAPS	A	VAR	N/A	(36,989)	VAR	N/A	(32,567)						
AOC	A												

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	59	117	

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

D. DATE: FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	THEATER BATTLE MANAGEMENT CORE SYSTEM	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AOC GFE		VAR	N/A	10,408									
2. TECH. UPGR/WKSTNS					VAR	N/A	15,360						
3. TYPE 1 TRAINING				1,124			1,250						
4. ENG SUPPORT				6,039			5,388						
5. COTS S/W LICENSES		VAR	N/A	9,871	VAR	N/A	1,996						
ASOC	A												
1. ASOC SHELTERS		7	30	210	5	31	155						
2. INTEGRATION & ASSY		7	588	4,115	5	586	2,933						
3. ASOC WORKSTNS		VAR	N/A	2,377	VAR	N/A	1,685						
4. OTHER GFE		VAR	N/A	2,523	VAR	N/A	1,816						
5. TYPE 1 TRAINING						N/A	1,500						
AFSOC GFE	A	VAR	N/A	322	VAR	N/A	484						
B. WCCS	A	VAR	N/A	(14,496)	VAR	N/A	(15,330)						
1. USAFE COMMAND & CONTROL (C2) SYS MODERNIZATION					VAR	N/A	2,336						
2. PACAF C2 SYSTEM MODERNIZATION		VAR	N/A	5,837									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	59	118	

WEAPON SYSTEM COST ANALYSIS
(EXHIBIT P-5)

D. DATE FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	THEATER BATTLE MANAGEMENT CORE SYSTEM	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
3. ACC C2 SYSTEM MODERNIZATION		VAR	N/A	5,448	VAR	N/A	4,536						
4. AFSOC MODERNIZATION		VAR	N/A	593	VAR	N/A	5,780						
5. TYPE I TRAINING				345			200						
6. ENGR/PROGRAM SPT				2,273			2,478						
TOTAL				51,485			47,897			48,989			45,886

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	59	119	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. TBMCS										
HARDWARE										
FY98	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ[1]	AFMC/ESC	OCT 97	DEC 97	VAR	N/A[2]	YES	NO	
FY99	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ[1]	AFMC/ESC	OCT 98	DEC 98	VAR	N/A[2]	YES	NO	
CIC										
FY98	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ[1]	AFMC/ESC	OCT 97	DEC 97	VAR	N/A[2]	YES	NO	
FY99	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ[1]	AFMC/ESC	OCT 98	DEC 98	VAR	N/A[2]	YES	NO	
IPS NODES										
FY 98	COMPUTER SCIENCES CORP, MORRISTOWN, NJ	FFP	AFMC/ESC	OCT 98	FEB 98	3	1.1	YES	NO	

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
59	120	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
A. CTAPS										
AOC										
1. AOC GFE										
FY96	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	APR 96	MAY 96	VAR	N/A [2]			
2. TECH UPGRD/WKSTNS										
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	OCT 96	DEC 96	VAR	N/A [2]			
ASOC										
1. ASOC SHELTERS										
FY96	ARMY / MARION COMPOSITES FALLS CHURCH, VA	MIPR/ OPT/FFP [9]	AFMC/ESC	JUL 96	AUG 96	7	30			
FY97	ARMY / MARION COMPOSITES, FALLS CHURCH, VA	MIPR/ OPT/FFP [10]	AFMC/ESC	OCT 96	DEC 96	5	31			

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
59	121	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. INTEGRATION & ASSY										
FY96	LMCCS, COLORADO SPRINGS, CO	OPT/FFP [3]	AFMC/ESC	JUL 96	AUG 96	7	588			
FY97	LMCCS, COLORADO SPRINGS, CO	OPT/FFP [3]	AFMC/ESC	JAN 97	FEB 97	5	586	YES	NO	
3. ASOC WORKSTNS										
FY96	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	JUL 96	AUG 96	VAR	N/A [2]			
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	OCT 96	DEC 96	VAR	N/A [2]			
4. OTHER GFE										
FY96	SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [4]	AFMC/ESC	JUL 96	AUG 96	VAR [5]	N/A [5]			
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [4]	AFMC/ESC	OCT 96	DEC 96	VAR [5]	N/A [5]			

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AFSOC GFE										
FY 96	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	APR 96	MAY 96	VAR [6]	VAR [6]			
FY 97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	OCT 96	NOV 96	VAR [6]	VAR [6]			
B. WCCS										
1. USAFE C2 SYS MODS										
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	OCT 96	DEC 96	VAR	N/A [7]			
2. PACAF C2 SYS MODS										
FY96	SYLVEST MGT SYS, LANHAM, MD	OPT/IDIQ [8]	AFMC/ESC	OCT 95	NOV 95	VAR	N/A [7]			

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. ACC C2 SYS MODERNIZATION										
FY96	SYLVEST MGT SYS, LANHAM, MD	OPT/IDIQ [8]	AFMC/ESC	MAR 96	APR 96	VAR	N/A [7]			
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	DEC 96	FEB 97	VAR	N/A [7]	YES	NO	
4. AFSOC MODERNIZATION										
FY96	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	APR 96	MAY 96	VAR	N/A [7]			
FY97	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ [1]	AFMC/ESC	OCT 96	MAR 97	VAR	N/A [7]			

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. Options to the new Air Force Workstation Contract awarded March 1996 to Sun Micro Systems, Mountain View, CA. and Hughes Data Systems, Irvine, CA.
2. Varying unit costs due to number/types of equipment being procured for specific sites.
3. Options to the Theater Battle Mgt. Integration & Development contract awarded Oct 95 to Lockheed-Martin Command & Control Systems, Colorado Springs, CO.
4. Equipment will be procured through both the new Workstation Contract (reference footnote 1) and off the GSA schedule.
5. Other GFE includes various support equipment such as peripheral devices, local area networks, printers, communications security equipment, etc. Unit costs vary because of the multiple types of equipment being procured.
6. Eight workstations will be procured for the AFSOC along with associated support equipment. Unit costs vary.
7. Procures various workstations and servers for site-specific configurations resulting in various unit costs.
8. Option to AFMC/ESC Sun Workstation contract (F19628-95-C-0222) which filled hardware requirements before award of new workstation contract in footnote 1.
9. Option to contract #DAAK-01-94-C-0070.
10. Option to contract #DAAK-01-95-C-0102.

D. REMARKS
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	59	125	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE INFORMATION TRANSMISSION SYSTEMS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	16.864	12.195	10.889	11.090	10.243	11.192	3.726	3.620

Information Transmission Systems provides funding to interconnect information processing equipment (workstations, printers, etc.) and information transport systems (base-wide fiber optic networks) to form an integrated information resource infrastructure that can meet the information demands of varying organizational structures. The Information Transmission System line supports requirements for local and wide area networks (LANs/WANs), including system design, engineering, installation and acceptance testing; LAN/WAN equipment items (network file servers, network management systems, network storage units, etc.); and transmission components (multiplexers, bridges, routers, cabling, etc.).

HQ 11TH SUPPORT WING: This project upgrades existing LAN capabilities at Bolling AFB, Washington DC. Funding procures file servers, bridges, LAN workstations, network interface units and cards, repeaters and fiber optic connections necessary to ensure horizontal and vertical coordination capability. These funds also support the wide area network acquisition for Korean Battle Simulation Center. Funds were used to procure routers and multiplexors in lieu of leasing equipment. This equipment also supports the Ulchi Focus Lens (UFL) joint wargaming exercise.

HQ AIR COMBAT COMMAND (ACC): FY96 funding installed/upgraded information transmission systems at Cannon AFB, NM; Davis-Monthan AFB, AZ; Ellsworth AFB, SC; Little Rock AFB, AR; Minot AFB, ND; Mountain Home AFB, ID; Nellis AFB, NV; Offutt AFB, NE; Pope AFB, NC; and Shaw AFB, SC. Site configurations vary by base depending on the size and mission at each location. Procured equipment includes servers, routers, hubs, high speed multiplexors, software, fiber optic cable and similar LAN support equipment. FY97-99 funding will continue to provide for the installation of information transmission systems at approximately 10 sites per year.

HQ US AIR FORCE EUROPE (USAFE): This funding purchases servers and infrastructure upgrades (network interface cards) to complete increased network backbone (switches and hubs) capability. Bases that were upgraded in FY96 included Aviano AB, Italy, Zapalla AB, Spain, and RAF Fairford, UK. FY97-99 will provide for upgrades to include Ramstein AFB GE (Weather, radar, and cable upgrade), Incirlik Turkey (RAPCON Radios) and Spangdahlem AFB GE (ATC Consoles).

HQ AIR FORCE SPACE COMMAND (AFSPC): This funding supports Command Wide LAN Networks, ITWAA/ICBM and Base Level missions. FY 96 funding supported LAN implementation upgrades for Patrick AFB, FL, 14th AF Vandenberg (CA) Operations Center, FE Warren (WY) Operations Center, and Falcon AFB, CO, and the Cheyenne Mountain Network. Various pieces of equipment (servers, network interface units, bridges, computers, etc.) were installed in accordance with the size and mission of each location. FY 97-99 funding will replace existing networks, expands customer base and allows for science and technological changes at numerous sites.

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	60	126	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE INFORMATION TRANSMISSION SYSTEMS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

HQ AIR MOBILITY COMMAND (AMC): This funding provided base Command, Control, Communications and Computers (C4) infrastructure providing the fiber backbone for base-wide multi-media connectivity in order for AMC to complete its mission as the DoD Single Manager for Airlift. AMC requires an effective C4 system that provides for efficient centralized management of the entire US strategic mobility fleet. Intra-building network infrastructure that includes physical network, cabling, routers, bridges, repeaters, servers, network operating system, installation support, and initial technical training were installed at various AMC locations.

HQ AIR FORCE MATERIEL COMMAND (AFMC): FY96 funding provided upgrades for the Kirtland AFB, NM wide area network (WAN) information resource infrastructure. These upgrades provide an effective bandwidth that supports the information demands of various organizations within the base community, and accommodates access between varying networks and the Internet. These upgrades also provided the capability for future expansion in accordance with changing mission requirements. FY97/98/99 will provide funding for the AFMC Base Network Systems (BNS) transition to newer technology. The existing broadband BNS is over ten years old and burdened with out-of-date technology. The current system provides over 60,000 BNS connections for users, hosts, and printers across the command. Upgrading and replacing this old technology to a standards-based network is a mission essential requirement for supporting the depot maintenance and logistics support functions.

HQ AIR EDUCATION AND TRAINING COMMAND (AETC): These funds support the information transmission systems utilized by AETC. The Air University Distributed Information System (AUDIS) LAN supports education excellence by procuring tools to provide reliable and sufficient access information. FY 96-99 funds establish the information infrastructure (local area network and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation (war games), and provide information required to execute the education mission. The AETC LAN Technology Refreshment Program supports acquisition and installation of equipment and software for the continuation of a command-wide enterprise network to interconnect similar and dissimilar smaller networks. FY 96-99 funding will continue to expand and upgrade the network connectivity to functional communities that have inadequate or no existing connectivity.

HQ PACIFIC AIR FORCE (PACAF): FY 97-99 funding will support information transmission upgrades for Hickam AFB (HI), Elmendorf AFB (AK), Eielson AFB (AK), Andersen AFB (Guam), Yokota AB (JA), Misawa AB (JA), Kunsan AB (KOR), and Osan AB (KOR). Site configurations vary by base depending on the size and mission at each location. Specifically, funds will be used to expand the PACAF-wide Secret-level Network, procure the RELROK (Releasable to the Republic of Korea) dissemination system supporting the warfighter's access to essential, releasable to Korea C2I data, the Korean Air Battle Simulation Center, the PACAF Intra-net; and switch upgrades.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	60	127	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME INFORMATION TRANSMISSION SYSTEMS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
HQ 11TH SUPPORT WING	A	VAR	VAR	1,643									
HQ ACC	A	VAR	N/A	3,062	VAR	N/A	3,144	VAR	N/A	3,631	VAR	N/A	3,667
HQ USAFE	A	VAR	N/A	1,791	VAR	N/A	1,912	VAR	N/A	1,900	VAR	N/A	1,974
HQ AFSPC	A	VAR	N/A	4,243	VAR	N/A	2,700	VAR	N/A	997	VAR	N/A	995
HQ AMC	A	VAR	N/A	2,810									
HQ AFMC	A	VAR	N/A	469	VAR	N/A	1,736	VAR	N/A	1,645	VAR	N/A	1,742
HQ AETC	A	VAR	N/A	2,846	VAR	N/A	1,686	VAR	NA	1,694	VAR	NA	1,692
HQ PACAF	A				VAR	N/A	1,017	VAR	N/A	1,022	VAR	N/A	1,020
TOTAL				16,864			12,195			10,889			11,090

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: INFORMATION TRANSMISSION SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. HQ 11TH SUPPORT WING										
FY96										
Bolling AFB LAN	MULTIPLE [1]	OPT/FFP[1]	11TH SPT WING	AUG 96	SEP 96	VAR	N/A[2]			
WAN for Korean Battle Simulation	MULTIPLE [1]	OPT/FFP[1]	US ARMY INFORMATION SYSTEMS COMMAND	AUG 96	AUG 96	VAR	N/A[2]			
2. HQ ACC										
FY96	MULTIPLE [1]	OPT/FP [1]	HQ ACC	VAR	MULTI	VAR	N/A [2]			
FY 97	MULTIPLE [1]	OPT/FP [1]	HQ ACC	VAR	MULTI	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE [1]	OPT/FP [1]	HQ ACC	VAR	MULTI	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	HQ ACC	VAR	MULTI	VAR	N/A [2]	YES	NO	
3. HQ USAFE										
FY96	MULTIPLE [1]	OPT/FP [1]	HQ USAFE	JUN 96	JUL 96	VAR	N/A [2]			
FY97	MULTIPLE [1]	OPT/FP [1]	HQ USAFE	JUN 97	JUL 97	VAR	N/A [2]	YES	NO	
FY98	MULTIPLE [1]	OPT/FP [1]	HQ USAFE	JUN 98	JUL 98	VAR	N/A [2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	HQ USAFE	JUN 99	JUL 99	VAR	N/A [2]	YES	NO	
4. HQ AFSPC										
FY96	MULTIPLE [1]	OPT/FP [1]	HQ AFSPC	MAY 97	JUL 97	VAR	N/A[2]			
FY97	MULTIPLE [1]	OPT/FP [1]	HQ AFSPC	MAY 97	JUL 97	VAR	N/A[2]	YES	NO	
FY98	MULTIPLE [1]	OPT/FP [1]	HQ AFSPC	JAN 98	MAR 98	VAR	N/A[2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	HQ AFSPC	JAN 99	MAR 99	VAR	N/A[2]	YES	NO	

D. REMARKS

1. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED. OPTIONS WERE USED TO PROCURE EQUIPMENT FROM THE GENERAL SERVICES ADMINISTRATION SCHEDULE, THE AF MINICOMPUTER MULTI-USER SYSTEM, AFCAC 308, UNIFIED LOCAL AREA NETWORK ARCHITECTURE (ULANA) II, AND DESKTOP IV CONTRACTS. AWARD AND DELIVERY DATES, WHERE APPLICABLE, REFLECT DATE OF FIRST AWARD/DELIVERY.
2. MULTIPLE PIECES OF EQUIPMENT AND QUANTITIES PROCURED RESULTING IN VARYING UNIT COSTS.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: INFORMATION TRANSMISSION SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
5. HQ AMC										
FY96	MULTIPLE [1]	OPT/FP [1]	HQ AMC	JUL 96	SEP 96	VAR	N/A [2]			
6. HQ AFMC										
FY96	GSA KANSAS CITY, MO	MIPR/C/FP	HQ AFMC	NOV 96	FEB 97	VAR	N/A [2]			
FY97	UNKNOWN	MIPR/C/FP	HQ AFMC	APR 97	AUG 97	VAR	N/A	YES	NO	
FY98	UNKNOWN	MIPR/C/FP	HQ AFMC	APR 98	AUG 98	VAR	N/A	YES	NO	
FY99	UNKNOWN	MIPR/C/FP	HQ AFMC	ARP 99	AUG 99	VAR	N/A	YES	NO	
7. HQ AETC										
FY96 - AUDIS LANS	MULTIPLE [1]	OPT/FP [1]	HQ AETC	JUN 96	AUG 96	VAR	N/A [2]			
FY97 - AUDIS LANS	MULTIPLE [1]	OPT/FP [1]	42ABW/LGC	DEC 96	JAN 97	VAR	N/A [2]			
- AETC LANS	MULTIPLE [1]	OPT/FP [1]	HQ AETC	JUN 97	JUL 97	VAR	N/A[2]	YES	NO	
FY98 - AUDIS LANS	MULTIPLE [1]	OPT/FP [1]	42ABW/LGC	DEC 97	MAR 98	VAR	N/A[2]	YES	NO	
FY99 - AUDIS LANS	MULTIPLE [1]	OPT/FP [1]	42ABW/LGC	DEC 98	MAR 99	VAR	N/A[2]	YES	NO	
8. HQ PACAF										
FY97	MULTIPLE [1]	OPT/FP [1]	HQ PACAF	JUN 97	JUL 97	VAR	N/A[2]	YES	NO	
FY98	MULTIPLE [1]	OPT/FP [1]	HQ PACAF	JUN 98	JUL 98	VAR	N/A[2]	YES	NO	
FY99	MULTIPLE [1]	OPT/FP [1]	HQ PACAF	JUN 99	JUL 99	VAR	N/A[2]	YES	NO	

D. REMARKS

1. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED. OPTIONS WERE USED TO PROCURE EQUIPMENT FROM THE GENERAL SERVICES ADMINISTRATION SCHEDULE, THE AF MINICOMPUTER MULTI-USER SYSTEM, AFCAC 308, UNIFIED LOCAL AREA NETWORK ARCHITECTURE (ULANA) II, AND DESKTOP IV CONTRACTS. AWARD AND DELIVERY DATES, WHERE APPLICABLE, REFLECT DATE OF FIRST AWARD/DELIVERY.
2. MULTIPLE PIECES OF EQUIPMENT AND QUANTITIES PROCURED RESULTING IN VARYING UNIT COSTS.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	27.523 *	82.333*	88.945	102.126	119.174	119.577	114.823	115.579

Base Information Infrastructure (BII) fulfills the Air Force's portion of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII) initiatives. BII will replace maintenance intensive equipment, replace or upgrade existing digital switching systems, provide network management of information systems and local area networks, and increase the capability of saturated information transmission systems to facilitate the rapid dissemination of vital command and control and business processing systems information, e.g., voice, data, video, imagery, and telemetry. BII is essential to successful expeditionary warfare, especially for sustained combat operations within a Major Regional Conflict (MRC). Deployed forces will rely on the base-level information "grid" to "reach back" from the area of responsibility (AOR) to command echelons located at the home-station and/or CONUS bases for command and control direction and logistical support. In essence, BII will provide every base the information transport environment needed to ensure that Air Force decision-makers and warfighters have access to information when, where, and how they need it to win in war. Under the BII umbrella is the Combat Information Transport System (CITS) which consists of the following components: (1) Voice Switching Systems (VSS); (2) Information Transport Systems (ITS); (3) Telecommunications Management Systems (TMS); (4) Network Management System (NMS); and (5) Base Information Protect (BIP). Details of each program are outlined below.

* Funding for the ANG and Civil Engineers (CE) was formerly funded/appropriated in this P-1 Line. These projects have now been consolidated under P-1 Line #77 "Base Communications Infrastructure" to provide better visibility and management of similar programs. Therefore, FY96 and FY97 funding for the ANG and CE (appropriated in P-1 Line # 61) is now displayed in P-1 Line # 77 in order to provide complete funding profiles.

Base Closure plans are incorporated into the BII program. In the event a location is identified for closure, partial closure or under study for closure, the Air Force will cease all actions pending a final determination of a location's status and, in turn, apply available funding to existing operational requirements.

1. **VOICE SWITCHING SYSTEM (VSS):** Formerly called Digital Switching System. VSS competitively acquires new digital switching equipment, e.g., dial central offices, information transport nodes, remote switching centers, private branch exchanges, etc., where the existing switch is no longer capable of meeting mission requirements. Funds will provide standard interfaces and increased capacity, e.g., Asynchronous Transfer Mode, to meet current and future mission requirements by improving interbase/intrabase connectivity in order to provide wing war fighters the capability to "pull" information worldwide to rapidly mobilize and deploy forces as needed. FY96-99 funds continue switching systems procurements at multiple Air Force bases.

2. **INFORMATION TRANSPORT SYSTEMS (ITS):** Formerly called Distribution System/Premise Equipment (DS/PE). ITS will install a common user high speed, broad bandwidth, digital fiber optic network at each Air Force base to provide an information utility to support the users' requirement for near-instantaneous information transfer during crisis, contingency, and peacetime operations. The Air Force Chief of Staff labeled "information operations" the fifth dimension of

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

warfare. ITS provides the capability to rapidly disseminate needed information to coordinate current and future warfighting missions thereby ensuring "information dominance". ITS will be of sufficient capacity and flexibility to support all network needs: data, voice, video, imagery, and telemetry. It will enable combat and combat support information systems to interoperate and interconnect on Air Force bases, from the human interface (e.g., desktop computers) to the off-base long haul demarcation point. FY96-99 funds continue ITS procurement at multiple Air Force bases.

3. **TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS):** TMS is an automated management system that provides various services including collecting and archiving information on cable records, service orders, and usage/billing; directory and operator assistance including the creation and update of base telephone books; and the inventory control of logistics support items. TMS enables the more efficient management of digital switching systems and information transport systems to improve maintenance and operational performance of mission-critical assets. FY97-99 funds procure and install TMS at listed Air Force bases.

4. **NETWORK MANAGEMENT SYSTEM (NMS):** FY97-99 funds procure network management systems for each listed Air Force base to provide proactive and reactive management of all command, control, communications, computer and intelligence (C4I) systems on base by monitoring and controlling the base network and distributed software resources. The NMS is the nerve center or brain of the entire base information infrastructure. The integrated network management tools will test and troubleshoot equipment, provide fault isolation, monitor performance, provide configuration management, account for equipment, and ensure security management of base systems from the user's desktop to the off-base long-haul demarcation point. The NMS will have the capability to provide bandwidth on demand which is essential to support the warfighter's need for information to effectively prosecute a war.

5. **BASE INFORMATION PROTECT (BIP):** Funds procure commercial-off-the-shelf (COTS) information protection tools for each Air Force base to detect, deter, isolate, contain, reconstitute and recover from information systems and network security intrusions and attacks. Funds will procure network intrusion detection systems, firewalls to close the network to unauthorized users, and guards to ensure information integrity, security, and confidentiality are maintained while passing information across networks. BIP implements the base level information protect portion of the Defensive Counter-Information mission area and is critical to prosecuting the information war. FY96 provides funding for proof-of-concept and engineering integration activities at Langley Air Force Base, Virginia. FY97-99 funds procure and install BIP at listed Air Force bases.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)	C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
CITS				(27,523)			(82,333)			(88,945)			(102,126)
1 Langley AFB, VA				8,296			650						
2 Charleston AFB, SC				5,756			1,720			390			
3 Mountain Home AFB, ID				1,382			1,030						
4 Incirlik AB, TU							1,030						
5 Kadena AB, JA				4,223			2,130						
6 Hurlburt Field FL				6,396			1,290						
7 Travis AFB, CA							12,969			390			
8 Eglin AFB, FL							9,806						
9 Westover AFB, MA (AFR)							3,101			305			
10 Vandenberg AFB,CA							5,076						4,986
11 Randolph AFB,TX							4,566						
12 Seymour-Johnson AFB, NC							10,542			305			
13 McGuire AFB, NJ							2,308			390			1,720
14 Aviano AB, IT							4,078			185			325
15 Holloman AFB, NM (AFR)							5,036			1,290			4,425
16 Osan AB, KO							1,700			9,662			
17 Andrews AFB, MD										8,477			
18 Ramstein AB, GE										8,592			410
19 Homestead AFB, FL (AFR)										3,493			305

	P-1 SHOPP LIST ITEM NO. 61	PAGE NO. 133	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)
C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
20 March AFB, CA (AFR)							305			3,704			
21 Cheyenne Mtn CO										6,072			305
22 Altus AFB, OK										5,098			305
23 Hill AFB, UT							390			9,214			
24 Barksdale AFB, LA							390			1,720			5,908
25 McChord AFB, WA										1,290			5,220
26 F.E. Warren AFB, WY							390			1,030			3,998
27 Misawa AB, JA							325			1,290			6,858
28 RAF Lakenheath UK							2,854			1,290			
29 Pope AFB, SC							1,595						4,494
30 Scott AFB, IL										1,720			3,528
31 Tinker AFB, OK										1,720			7,494
32 Peterson AFB, CO										1,680			
33 Laughlin AFB, TX										1,030			3,627
34 Dyess AFB, TX										1,290			4,603
35 Grissom AFB, IN AFR)										1,335			
36 Dobbins AFB, GA (AFR)										1,335			
37 Fairchild AFB, WA							1,595						
38 Beale AFB, CA										1,335			
39 RAF Mildenhall UK							2,562			1,355			
40 Whiteman AFB, MO										1,720			

	P-1 SHOPP LIST ITEM NO. 61	PAGE NO. 134	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/POPULAR NAME	C. MANUFACTURER NAME/PLANT/CITY/STATE
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	BASE INFORMATION INFRASTRUCTURE (COST BY BASE)	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
41 Kunsan AB, KO										2,045			
42 Robins AFB, GA													1,720
43 Elmendorf AFB, AK										325			1,720
44 Malmstrom AFB, MT										305			1,030
45 Falcon AFB, CO										305			1,290
46 Ellsworth AFB, SD													1,290
47 Spangdahlem GE							1,845						1,290
48 Columbus AFB, MS													1,030
49 Tyndall AFB, FL										305			
50 Grand Forks AFB, SD							1,290			327			305
51 Niagara Falls, NY (AFR)										305			1,030
52 Minn-St Paul, MN (AFR)													1,030
53 Eielson AFB, AK										325			1,030
54 McConnell AFB, KS										1,311			
55 Moody AFB, GA										305			1,030
56 RAF Molesworth UK										325			1,030
57 Kirtland AFB, NM										390			1,720
58 Nellis AFB, NV													1,720
59 Keesler AFB, MS										390			1,720
60 Sheppard AFB, TX										390			1,720
61 Patrick AFB, FL										305			1,290

	P-1 SHOPP LIST ITEM NO. 61	PAGE NO. 135	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)						C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A			
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
62 Cape Canaveral AS, FL										390			1,290
63 Willow Grove NAS, PA (AFR)													1,030
64 General Mitchell Field, WI (AFR)										305			1,030
65 RAF Croughton UK										325			1,030
66 Cannon AFB, NM													1,595
67 Davis-Monthan AFB, AZ													1,595
68 Hickam AFB, HI													1,700
69 Luke AFB, AZ													1,595
70 Yokota AB, JA													1,700
71 Shaw AFB, SC													1,595
72 Offutt AFB, NE													2,110
73 Edwards AFB, CA													2,110
74 USAF Academy CO													305
75 RAF Uxbridge UK													325
76 Regional Distribution System (RDS) Contract Services				1,470			1,760			1,560			1,610
TOTAL				27,523			82,333			88,945			102,126
			P-1 SHOPP LIST ITEM NO. 61		PAGE NO. 136			Exhibit P-5 Weapon System Cost Analysis					

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY SYSTEM)					C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A			
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Combat Information Transport System (CITS)				27,523			82,333			88,945			102,126
VOICE SWITCHING SYSTEM (VSS):				3,830			8,558			4,500			12,876
INFORMATION TRANSPORT SYSTEMS (ITS)				22,763			46,305			41,630			43,875
TELECOMMUNICATIONS MANAGEMENT SYSTEMS (TMS)				0			4,640			9,035			5,405
NETWORK MANAGEMENT SYSTEM (NMS):				0			11,050			16,250			19,500
BASE INFORMATION PROTECT (BIP):				930			11,780			17,530			20,470
	P-1 SHOPP LIST ITEM NO. 61			PAGE NO. 137			Exhibit P-5 Weapon System Cost Analysis						

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
COMBAT INFO TRANSPORT SYS										
1. LANGLEY AFB, VA										
FY96 VSS	ARMY/ GTE GOVT SYS, NEEDHAM, MA	MIPR/OPT/FFP [3]	AFMC/ESC	MAR 97	SEP 97	N/A	716	YES	NO	
FY96 ITS	GTE SERVICES FREDERICK, MD	DO/FFP [2]	AFMC/ESC	DEC 95	JUL 97	N/A	6,651			
FY96 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	AUG 96	APR 97	N/A	930			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	OCT 96	APR 97	N/A	650			
2. CHARLESTON AFB, SC										
FY96 ITS	GSA FEDSIM WASH DC	OPT/FFP [4]	AFMC/ESC	MAR 96	MAY 97	N/A	3,091			
FY96 VSS	ARMY / GTE GOVT SYS, NEEDHAM, MA	MIPR/OPT/FFP [3]	AFMC/ESC	APR 96	JUN 97	N/A	2,665			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 96	JUL 97	N/A	390	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. MT HOME AFB, ID										
FY96 ITS	GTE SERVICES FREDERICK, MD	DO/FFP [2]	AFMC/ESC	FEB 96	AUG 96	N/A	1,382			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 97	SEP 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 97	SEP97	N/A	380	YES	NO	
4. INCIRLIK AB, TURKEY										
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	380	YES	NO	
5. KADENA AB, JAPAN										
FY96 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP [6]	AFMC/ESC	JAN 96	MAY 96	N/A	4,223			
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	SEP 97	N/A	410			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO	
6. HURLBURT AFB, FL										
FY96 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	SEP 96	JAN 97	N/A	450			

D. REMARKS

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P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY96 ITS	GTE SERVICES FREDERICK,MD	DO/FFP [2]	AFMC/ESC	DEC 96	JAN 97	N/A	5,947			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	640	YES	NO	
7. TRAVIS AFB, CA										
FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUN 97	N/A	4,128	YES	NO	
FY97 ITS	GTE SERVICES FREDERICK,MD	DO/FFP[5]	AFMC/ESC	JAN 97	DEC 98	N/A	7,122			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	390	YES	NO	
8. EGLIN AFB, FL										
FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	503	YES	NO	
FY97 ITS	GTE FREDERICK, MD	DO/FFP [5]	AFMC/ESC	FEB 97	SEP 98	N/A	7,193	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO	
FY97 TMS	ANSTEC INC FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	AUG 97	N/A	390			
9. WESTOVER AFB, MA										
FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	302	YES	NO	
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB OK	WP[6]	AFMC/ESC	FEB 97	JUN 97	N/A	1,769	YES	NO	
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	380	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	
10. VANDENBERG AFB, CA										
FY97 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 96	JUL 97	N/A	2,966			
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	390	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO	
FY99 ITS	GTE FREDERICK MD	DO/FFP [5]	AFMC/ESC	NOV 98	VAR[1]	N/A	4,986	YES	NO	
11. RANDOLPH AFB, TX										
FY 97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	604	YES	NO	
FY97 ITS	38 ENGINEERING INSTALLATION WING TINKER AFB OK	WP[6]	AFMC/ESC	NOV 96	SEP 97	N/A	1,937			
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	AUG 97	N/A	305			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1.070	YES	NO	
12. SEYMOUR-JOHNSON AFB, NC										
FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	JAN 97	MAR 98	N/A	3,020			
FY97 ITS	GTE SERVICES FREDERICK, MD	OPT/FFP [5]	AFMC/ESC	FEB 97	OCT 98	N/A	6,232	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUN 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUN 97	NOV 97	N/A	640	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	
13. McGUIRE AFB, NJ										
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP[6]	AFMC/ESC	NOV 96	SEP 97	N/A	2,308			
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	1,070	YES	NO	
14. AVIANO AB, ITALY										
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP[6]	AFMC/ESC	JAN 97	SEP 97	N/A	3,048			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	380	YES	NO	
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR[1]	N/A	185	YES	NO	

D. REMARKS

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P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	AUG 99	N/A	325	YES	NO	
15. HOLLOMAN AFB, NM										
FY97 ITS	GTE FREDERICK MD	DO/FFP[5]	AFMC/ESC	FEB 97	OCT 98	N/A	5,036	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO	
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAY 99	N/A	4,425	YES	NO	
16. OSAN AB, KOREA										
FY 97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	SEP 97	N/A	410			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	640	YES	NO	
FY98 ITS	GTE FREDERICK MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR[1]	N/A	9,662	YES	NO	
17. ANDREWS AFB, MD										
FY98 ITS	GTE FREDERICK MD	DO/FFP[5]	AFMC/ESC	NOV 97	MAY 98	N/A	6,452	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	

D. REMARKS

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	1,070	YES	NO	
18. RAMSTEIN AB, GERMANY										
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR[1]	N/A	611	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR[1]	N/A	6,261	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	1,070	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	SEP 99	N/A	410	YES	NO	
19. HOMESTEAD AFB, FL										
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR[1]	N/A	682	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR[1]	N/A	1,781	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	380	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO	
20. MARCH AFB, CA										
FY97 TMS	ANSTEC INC FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	305	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR [1]	N/A	1,984	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	1,070	YES	NO	
21. CHEYENNE MTN COMPLEX, CO										
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR [1]	N/A	2,088	YES	NO	
FY 98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR [1]	N/A	2,694	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	640	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	305	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
22. ALTUS AFB, OK										
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR[1]	N/A	327	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR[1]	N/A	3,741	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	380	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO	
23. HILL AFB, UT										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	390	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 97	VAR[1]	N/A	7,494	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	1,070	YES	NO	
24. BARKSDALE AFB, LA										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JAN 97	JAN 98	N/A	390			
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	1,070	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	MAR 99	N/A	5,908	YES	NO	
25. McCHORD AFB, WA										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	640	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	JAN 99	MAR 99	N/A	5,220	YES	NO	
26. F.E. WARREN AFB, WY										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	390	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	380	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	VAR[1]	N/A	3,998	YES	NO	
27. MISAWA AB, JA										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JUN 97	APR 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	VAR[1]	N/A	6,858	YES	NO	
28. RAF LAKENHEATH UK										
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP[6]	AFMC/ESC	NOV 96	AUG 97	N/A	2,529			
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JUN 97	APR 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO	
29. POPE AFB, NC										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	MAR 97	DEC 97	N/A	305	YES	NO	
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	VAR[1]	N/A	4,492	YES	NO	

D. REMARKS

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
37. SCOTT AFB, IL										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	FEB 99	N/A	3,528	YES	NO	
31. TINKER AFB, OK										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	1,070	YES	NO	
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	221	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP[5]	AFMC/ESC	NOV 98	FEB 99	N/A	7,273	YES	NO	
32. PETERSON AFB, CO										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	OCT 97	JUL 99	N/A	390	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	640	YES	NO	
33. LAUGHLIN AFB, TX										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

P-1 SHOPP LIST ITEM NO. 61

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	380	YES	NO	
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	3,627	YES	NO	
34. DYESS AFB, TX										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	640	YES	NO	
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	4,603	YES	NO	
35. GRISSOM AFB, IN										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	380	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	
36. DOBBINS AFB, GA										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
37. FAIRCHILD AFB, WA										
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	305	YES	NO	
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO	
38. BEALE AFB, CA										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	
39. RAF MILDENHALL, UK										
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP[6]	AFMC/ESC	NOV 96	AUG 97	N/A	2,562			
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO	
40. WHITEMAN AFB, MO										
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO	
41. KUNSAN AB, KO										
FY 98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO	
42. ROBINS AFB, GA										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1,070	YES	NO	
43. ELMENDORF AFB, AK										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	1,070	YES	NO	
44. MALMSTROM AFB, MT										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	380	YES	NO	
45. FALCON AFB, CO										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO	
46. ELLSWORTH AFB, SD										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO	
47. SPANGDAHLEM GE										
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP[6]	AFMC/ESC	JAN 97	AUG 97	N/A	1,845			
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO	
48. COLUMBUS AFB, MS										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	380	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

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COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
49. TYNDALL AFB, FL										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
50. GRAND FORKS AFB, ND										
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO	
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR[1]	N/A	327	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO	
51. NIAGARA FALLS FIELD, NY										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	380	YES	NO	
52. MINN-ST PAUL FIELD, MN										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	380	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
53. EIELSON AFB, AK										
FY 98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 99	N/A	325	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO	
54. McCONNELL AFB, KS										
FY98 VSS	NORTEL MCLEAN,VA	DO/FFP	AFMC/ESC	NOV 97	JAN 98	N/A	281	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	380	YES	NO	
55. MOODY AFB, GA										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO	
56. RAF MOLESWORTH, UK										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	APR 99	N/A	325	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

P-1 SHOPP LIST ITEM NO. 61

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO	
57. KIRTLAND AFB, NM										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	APR 99	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	1,070	YES	NO	
58. NELLIS AFB, NV										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	1,070	YES	NO	
59. KEESLER AFB, MS										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	1,070	YES	NO	
60. SHEPPARD AFB, TX										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	MAR 99	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	1,070	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
61. PATRICK AFB, FL										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	640	YES	NO	
62. CAPE CANAVERAL AS, FL										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	640	YES	NO	
63. WILLOW GROVE NAS, PA										
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO	
64. GENERAL MITCHELL FIELD, WI										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
61	158	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
65. RAF CROUGHTON UK										
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	325	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO	
66. CANNON AFB, NM										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	
67. DAVIS-MONTHAN AFB, AZ										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	
68. HICKAM AFB, HI										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	410	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
69. LUKE AFB, AZ										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	
70. YOKOTA AFB, JA										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	DEC 99	N/A	410	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	
71. SHAW AFB, SC										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO	
72. OFFUTT AFB, NE										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	APR 00	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1,070	YES	NO	
73. EDWARDS AFB, CA										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	APR 00	N/A	390	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1.070	YES	NO	
74. USAF ACADEMY CO										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	MAR 00	N/A	305	YES	NO	
75. RAF UXBRIDGE, UK										
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	MAR 00	N/A	325	YES	NO	
REGIONAL DISTRIBUTION SYSTEM CONTRACT SERVICES										
FY96	GTE SERVICES FREDERICK, MD	DO/FFP[2]	AFMC/ESC	NOV 95	DEC 95	N/A	1,470	YES	NO	
FY97	GTE SERVICES FREDERICK, MD	DO/FFP[2]	AFMC/ESC	NOV 96	DEC 96	N/A	1,760	YES	NO	
FY 98	GTE SERVICES FREDERICK, MD	DO/FFP[2]	AFMC/ESC	NOV 97	DEC 97	N/A	1,560	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99	GTE SERVICES FREDERICK, MD	DO/FFP[2]	AFMC/ESC	NOV 98	DEC 98	N/A	1,610	YES	NO	

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
61	162	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

REMARKS (FOOTNOTES):

1. Delivery dates range 12-24 months after order is placed.

2. HQ Air Force Materiel Command/Electronics Systems Center (AFMC/ESC) awarded a competitive regional requirements contract in Apr 95 to GTE Services, Frederick, MD. Award date column reflects site order placement.

3. Option to FY91 Army contract awarded to GTE Government Systems, Needham, MA

4. Option off GSA schedule.

5. The BII program office at ESC, Hanscom AFB, MA, will make use of various contracts and contract types to award FY97 funds, e.g., the five-year regional requirements contract awarded to GTE Services, Frederick, MD in Apr 95; FEDSIM, Washington (GSA schedule), and use of Air Force 38 Engineering & Installation Wing, Tinker AFB, OK capability.

6. Multiple types of equipment will be procured off various existing contracts. Above award and delivery dates represents date of first award and delivery. Installation using Air Force 38 Engineering & Installation Wing, Tinker AFB, OK resources.

D. REMARKS NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.			
	P-1 SHOPP LIST ITEM NO. 61	PAGE NO. 163	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE USCENTCOM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003
QUANTITY								
COST (In Mil)	3.130	3.474	4.031	4.581	6.043	6.178	6.283	6.330

The Air Force is the executive agent for US Central Command (USCENTCOM) Headquarters. USCENTCOM and its area of responsibility (AOR) are separated by over 7,000 miles. Command, control, communications and computer (C4) systems must be able to effectively control contingency or peacetime operations while deployed or in garrison. The US Commander-in-Chief, Central Command (CINCCENT), warfighting Command Automation System provides the necessary automated systems for command and control of all assigned forces. USCENTCOM uses the Joint Staff's Modern Aids to Planning Program (MAPP) by running automated courses of action studies and wargaming simulations to validate operational planning actions. Requirements for the Joint Communications Support Element (JCSE) are also included to replace and modernize its equipment to continue effective support of Joint Chiefs of Staff (JCS) directed operations.

1. **USCENTCOM COMMAND AND CONTROL SYSTEMS:** This program procures essential CINCCENT command and control systems in support of deployed forces as well as garrison-based contingency and peacetime operations. FY96/97 funding provides for procurement of communications and automation systems which includes integration and implementation of the Global Command and Control System (GCCS) and a portion of a commercial SATCOM terminal upgrade as part of the Defense Information Systems Agency (DISA) Commercial SATCOM Initiative (CSCI), and the upgrade and modernization of the Modern Aids to Planning Program (MAPP). FY98/99 funding finishes the CSCI SATCOM terminal procurement, funds an Asynchronous Transfer Mode (ATM) network for CINCCENT headquarters, and procures Demand Assigned Multiple Access (DAMA) equipment.

2. **JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE):** FY96/97/98/99 funds provide the Air Force's one-third share to procure command, control and communications (C3) equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters. This funding is equally shared with the Army and Navy. JCSE is the only joint DoD unit specifically formed to provide C3 support for JCS contingency operations worldwide. Equipment requirements are approved annually by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (Air Force).

3. **ANG/AFR**

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96			.267				0.000
FY97			1.934				0.000
FY98			.200				0.000
FY99			.200				0.000

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	62	164	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME USCENTCOM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. USCENTCOM COMMAND & CONTROL SYS		VAR	N/A	(950)	VAR	N/A	(1,008)	VAR	N/A	(1,288)	VAR	N/A	(1,380)
A. COMMUNICATIONS & AUTOMATION SYSTEMS	A			570			700			1,000			1,000
B. MODERN AIDS TO PLANNING PROGRAM (MAPP)	A			380			308			288			380
2. JOINT COMM SUPPORT ELEMENT (JCSE)	A	VAR	N/A	2,180 *	VAR	N/A	2,466*	VAR	N/A	2,743*	VAR	N/A	3,201*
TOTAL				3,130			3,474			4,031			4,581

* Represents the Air Force's 1/3 Share Of Tri-Service Funding

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: USCENTCOM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. USCENTCOM CMD & CTRL SYSTEM										
A. COMMUNICATIONS & AUTOMATION SYSTEMS										
FY96	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]			
FY97	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY98	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY99	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
B. MODERN AIDS TO PLANNING PROGAM (MAPP)										
FY96	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]			
FY97	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY98	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY99	MULTIPLE [1]	C/FFP	HQ CENTCOM	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)										
FY96	MULTIPLE [1]	C/FFP	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]			
FY97	MULTIPLE [1]	C/FFP	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY98	MULTIPLE [1]	C/FFP	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	
FY99	MULTIPLE [1]	C/FFP	AFMC/ESC	MULTI [1]	MULTI [1]	VAR [1]	N/A [1]	YES	NO	

D. REMARKS:

1. MULTIPLE CONTRACT AWARDS FOR SMALL ACQUISITIONS WITH VARIOUS CONTRACTORS, CONTRACTING AGENCIES, AWARD AND DELIVERY DATES, QUANTITIES AND UNIT COSTS. SOME CONTRACTOR EXAMPLES ARE: DIGITAL EQUIPMENT CORP, TAMPA, FL; AT&T, NORCROSS, GA; GTE, NEEDHAM HEIGHTS, MA; PARAMAX CORP, PAOLI, PA; ROCKWELL INTERNATIONAL, EL PASO, TX; BENDIX CORP LEXINGTON PARK, MD; AND HARRIS CORP, MELBOURNE, FL.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATED TELECOMMUNICATIONS PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	17.805	19.173	15.900	17.795	17.659	17.972	11.905	20.970

This program continues acquisition of equipment in support of Air Force requirements for the Defense Message System (DMS). This system provides essential capabilities to carry on the wartime and peacetime missions of the Air Force.

DEFENSE MESSAGE SYSTEM (DMS)-AIR FORCE (AF): DMS-AF is the Air Force portion of a DoD initiative to replace today's message communications system which supports command and control, intelligence, logistics and sustaining forces. The baseline for DMS is the Automatic Digital Network (AUTODIN) and electronic mail (E-Mail) on the DoD Internet. The goal is to move message service off the AUTODIN onto a secure, fully mature, writer-to-reader E-Mail system which will ultimately allow closure of Telecommunications Centers (TCCs) and will reduce maintenance and manpower costs. Four hundred seventy manpower slots (FY94-97) have been eliminated from Air Force TCCs in recognition of cost savings. In addition, 360 TCC manpower slots were taken (FY96-01) for reinvestment in DMS and Defense Information Infrastructure. Because of these manpower reductions, the Air Force must posture itself for closing TCCs and the shutdown of the AUTODIN. FY95 funds were applied to the DMS-GOSIP message contract to provide implementation services in preparation to providing writer-to-reader message service to initial bases. FY96 funds provided writer-to-reader message service to an initial 24,200 users of the 329,000 projected users and purchased connectivity at ten bases. This began a phased effort that allows the Air Force to effectively close TCCs which, in turn, facilitates the closing of the AUTODIN by the year 2000. FY97 funds provide writer-to-reader service for another 44,000 users and network connectivity at 11 bases. FY98 funding will continue message service for 29,000 users and additionally will provide enhanced security capabilities at 25 bases. FY99 funds will continue to provide writer-to-reader message to another 23,000 users and provide enhanced security capabilities at 68 bases.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATED TELECOMMUNICATIONS PROGRAM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DMS-AF													
DMS - GOSIP	A	24,200[2]	N/A [3]	10,000	44,000[2]	N/A [3]	16,423	29,000[2]	N/A [3]	11,186	23,000[2]	N/A [3]	4,943
DMS - CONNECTIVITY	A	10 [5]	N/A [5]	7,805	11 [5]	N/A [5]	2,750						
DMS - ENHANCED SECURITY CAPABILITY	A							25 [5]	N/A [5]	4,714	68 [5]	N/A [5]	12,852
TOTAL				17,805			19,173			15,900			17,795

See Footnote explanations on P-5A budget format.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	63	168	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AUTOMATED TELECOMMUNICATIONS PROGRAM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
DMS - AF										
DMS GOSIP										
FY96	LOCKHEED-MARTIN FED SYS (LMFS)	OPT/FFP [1]	AFMC/ESC-SSG	DEC 95	JUL 96	24,200 [2]	N/A [3]			
FY97	LMFS	OPT/FFP [1]	AFMC/ESC-SSG	OCT 96	JAN 97	44,000 [2]	N/A [3]			
FY98	LMFS	OPT/FFP [1]	AFMC/ESC-SSG	OCT 97	JAN 98	29,000 [2]	N/A [3]	YES	NO	
FY99	LMFS MANASSAS, VA	OPT/FFP [1]	AFMC/ESC-SSG	OCT 98	JAN 99	23,000 [2]	N/A [3]	YES	NO	
DMS CONNECTIVITY										
FY96	DISA/COMM NETWORK SYSTEMS	MIPR/OPT [4]	AFMC/ESC-SSG	DEC 95	APR 96	10 [5]	N/A [5]			
FY97	DISA/COMM NETWORK SYSTEMS INGLEWOOD, CO	MIPR/OPT [4]	AFMC/ESC-SSG	OCT 96	FEB 97	11 [5]	N/A [5]			
DMS - ENH SECURITY CAPABILITY										
FY98	LMFS	OPT/FFP [1]	AFMC/ESC-SSG	OCT 97	JAN 98	25 [5]	N/A [5]	YES	NO	
FY99	LMFS MANASSAS, VA	OPT/FFP [1]	AFMC/ESC-SSG	OCT 98	JAN 99	68 [5]	N/A [5]	YES	NO	

D. REMARKS

1. OPTION TO FY95 COMPETITIVE CONTRACT AWARDED TO LOCKHEED-MARTIN FEDERAL SYSTEMS IN MAY 1995.
2. NUMBER OF USERS PROVIDED DMS CAPABILITY.
3. UNIT COSTS ARE DEPENDENT ON INDIVIDUAL SITE CONFIGURATIONS.
4. OPTION TO DISA FIRM FIXED PRICE CONTRACT DCA200-94-G-0006 AWARDED JULY 94 TO COMMUNICATIONS NETWORK SYSTEMS CORP.
5. NUMBER OF BASES BEING UPGRADED. UNIT COSTS VARY. AMOUNT OF NETWORK CONNECTIVITY AND SECRET LEVEL CAPABILITY BEING INSTALLED VARIES WITH THE SIZE OF EACH BASE.

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NAVSTAR GPS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.012	3.308	3.129	4.087	3.985	4.028	4.400	4.485

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 consistent accuracy, unaffected by location or weather, together with real time availability, will significantly improve effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: (1) user equipment (UE), (2) satellites and (3) a control network. Air Force UE consists of 5-channel handheld sets (funded in Other Procurement Appropriation) and 5-channel airborne sets (funded in Aircraft Procurement Appropriation). The satellites broadcast high accuracy data using precisely synchronized signals that are received and processed by UE installed in military platforms. The UE computes the platform position and velocity and provides steering vectors to target locations or navigational waypoints. This UE was a key component in Desert Shield/Storm to provide precise positioning in the featureless desert. The control network daily updates the navigation messages broadcast from the satellites to maintain probable system precision in three dimensions to 16 meters worldwide.

PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR): The PLGR is a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information for low dynamic motion users. It is a non-developmental item which is being used primarily to support 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. FY93 funding began the large scale precision lightweight GPS receiver (PLGR) procurement including unique support equipment, production unit testing, and contractor technical support.

FY96 funds procured an Interim GPS capability comprised of multiple types of hand held receiver sets for an interim carry-on GPS capability on Air Force passenger carrying aircraft (reference DoD Reprogramming 96-15PA approved by Congress in August 1996). FY96 funding also provides for program support.

FY97 funding continues funding for program support, PLGR procurement and support costs associated with qualification operational test & evaluation (QOT&E) required by the DoD Multi-Service Test and Evaluation Plan. Procurement costs include funding for various PLGR accessory items, e.g., helmet-mounted and remote antennae; vehicle installation mounts; alternating current (AC) power adapters; and cables allowing the PLGR to be connected to other PLGRs. Delivery of accessory items is tailored to individual users based on their specific mission requirements. Total Air Force PLGR requirement is 7846 units; the inventory objective will be bought out in FY97. Additionally, FY97 funding will provide program support and technology sample testing of the next generation PLGR known as the Defense Advanced GPS Receiver (DAGR). The DAGR will be smaller, lighter, more accurate, more energy efficient and more secure than the PLGR.

FY98 funds the first DAGR production buy of 689 units and FY99 funds 1,251 units.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NAVSTAR GPS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

ANG/AFR:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	248		.298		290		.348
FY97	53		.064		62		.075
FY98	41		.121		55		.162
FY99	75		.221		87		.258

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME NAVSTAR GPS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
PLGR/DAGR	A	VAR	N/A	(5,012)	VAR	N/A	(3,308)	VAR	N/A	(3,129)	VAR	N/A	(4,087)
PLGR/VEHICLE INSTALLATION SETS					900	1.2	1,080						
PLGR SUPPORT COSTS							65						
INTERIM GPS				4,975									
TECH SAMPLE TESTING							1,216			690			
SENSOR-TO-SHOOTER							926						
DAGR/VEHICLE INSTALLATION SETS								689	2.95	2,033	1,251	2.95	3,690
PROGRAM SUPPORT				37			21			406			397
TOTAL				5,012			3,308			3,129			4,087

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	65	172	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NAVSTAR GPS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
GPS USER EQUIPMENT										
PLGR										
FY97	ROCKWELL COLLINS CEDAR RAPIDS, IA	OPT/FFP [1]	AFMC/SMC	JAN 97	JUL 97	900	1.2 [2]	YES	NO	
INTERIM GPS										
FY96	ALLIED SIGNAL KANSAS CITY, MO	C/FP	AFMC/SMC	SEP 96	SEP 96	N/A	VAR [3]			
TECH SAMPLE TESTING										
FY97	ARMY/ ELECTRONIC PROVING GROUND FT. HUACHUCA, AZ	MIPR C/FP	AFMC/SMC	MAR 97	JUL 97	VAR	N/A	NO	YES	SEP 97
FY98	ARMY/ ELECTRONIC PROVING GROUND FT. HUACHUCA, AZ	MIPR C/FP	AFMC/SMC	MAR 97	JUL 98	VAR	N/A	NO	YES	SEP 97
DAGR										
FY98	TBD	C/FP	AFMC/SMC	DEC 97	JUN 98	689	2.95 [4]	NO	YES	SEP 97
FY99	TBD	OPT/FP	AFMC/SMC	DEC 98	JUN 99	1,251	2.95 [4]	NO	YES	SEP 97

D. REMARKS
1. OPTION TO FY93 COMPETITIVE FIRM FIXED PRICE CONTRACT TO ROCKWELL COLLINS.
2. FY97 UNIT COST IS THE AVERAGE AIR FORCE AND ARMY COST OF THE BASIC PLGR AND ITS COMPONENTS.
3. INTERIM GPS CONSISTS OF COMMERCIAL GPS RECEIVERS, AIRCRAFT INSTALLATION EQUIPMENT, MANUALS, AND TRAINING MATERIALS. VARIOUS COMPONENTS CAUSE UNIT COST TO VARY.
4. THE FY98/99 UNIT COST IS THE AVERAGE ESTIMATED COST OF THE BASIC DAGR AND ITS COMPONENTS.

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | | | NAVSTAR GPS | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | |

FY98PB | P-1 ITEM NOMENCLATURE: NAVSTAR GPS | DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00 / CALENDAR YEAR 00												FISCAL YEAR 01 / CALENDAR YEAR 01												FISCAL YEAR 02 / CALENDAR YEAR 02												LATER
					99 OCT	99 NOV	99 DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PLGR*																																								
FY96	A	18500	18500	0																																				0
FY97	AF	900	900	0																																				0
FY97	A	12000	12000	0																																				0
DAGR **																																								
FY98	AF	689	689	0																																				0
FY98	A	33711	33711	0																																				0
FY99	AF	1251	416	835	104	104	104	104	104	104	104	107																												0
FY99	A	33149	11048	22101	2762	2762	2762	2762	2762	2762	2762	2767																												0
TOTALS		100200	77264	22936	2866	2866	2866	2866	2866	2866	2866	2874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN	MAX	REA-CH 0+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
* BOEING OF NORTH AMERICA CEDAR RAPIDS, IA	4,000/YR	20,000/YR		INITIAL				
				REORDER				
** TBD								

REMARKS:
PRECISION LIGHTWEIGHT GPS RECEIVERS (PLGR) .
PLGR CONTRACT SET UP TO DELIVER MAXIMUM OF 20,000 PLGR UNITS PER FISCAL YEAR.

DEFENSE ADVANCED GPS RECEIVER (DAGR)

P-1 SHOPPING LIST ITEM NO. 65 | 3280P211

PAGE 1 OF 2 PAGES
EXHIBIT P-21

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE DEFENSE METEOROLOGICAL SATELLITE PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY*								
COST (In Mil)	13.985	10.499	11.898	11.031	9.574	8.109	7.780	3.317

The joint service Defense Meteorological Satellite Program (DMSP) mission is to provide an enduring and survivable capability through all levels of conflict, consistent with the survivability of the supported forces to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic, and solar-geophysical data to support worldwide DoD operations and high-priority programs. Timely, high quality data is supplied to Air Force Global Weather Central, the Fleet Numerical Meteorological and Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The Small Tactical Terminal (STT) program provides a highly mobile, current technology ground receiver for forward area weather support.

TACTICAL DATA RECEIPT/PROCESSING

SMALL TACTICAL TERMINALS (STT): STT's provide tactical users, deployed worldwide, with a survivable "first-in" source of meteorological satellite data, receivable by small, portable terminals in forward areas of conflict. These terminals have the capability to process visual and infrared imagery and mission sensor (non-imagery) data to support combat forces. There are three versions of STTs: (1) the basic version which only processes low resolution satellite data; (2) the enhanced version which adds the capability to process high resolution from polar-orbiting satellites; and (3) a Joint Task Force version which adds the capability to process high resolution satellite data from both polar-orbiting and geostationary satellites and provides a remote operations capability. Prior year funds procured 52 production STTs. FY96-99 funds procure an additional 51, 24, 33 and 23 terminals, respectively for a total of 183, buying out the Air Force inventory objective. The total requirement is for 113 terminals (plus 2 for training) in support of Air Force operations and 68 terminals for the Air Force weather teams assigned to Army units. Additionally, FY99 funding will provide for engineering change proposals (ECPs) to correct deficiencies identified during IOT&E prior to and/or following fielding. These deficiencies must be corrected to ensure logistics supportability, prevent unauthorized data access and ensure warfighter support from the 183 terminals deployed worldwide.

ANG/AFR:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96			0				0
FY97			0				0
FY98	9		2.584				0
FY99	19		5.900				0

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	66	176	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE DEFENSE METEOROLOGICAL SATELLITE PROGRAM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

REMARKS:

Note: 94 of 172 deficiencies discovered during June 1995 IOT&E (initial operational test and evaluation) have been corrected.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME DEFENSE METEOROLOGICAL SATELLITE PROGRAM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
SMALL TACTICAL TERMINAL		VAR	N/A	(13,985)	VAR	N/A	(10,499)	VAR	N/A	(11,898)	VAR	N/A	(11,031)
EQUIPMENT	A	51	N/A	12,054	24	N/A	8,278	33	N/A	10,137	23	N/A	7,048
NON-RECURRING COSTS				452			403			311			275
ENGINEERING/ PRODUCTION SPT				1,479			1,361			1,008			878
PROG MGMT ADMIN							457			442			430
ECP'S													2,400
TOTAL				13,985			10,499			11,898			11,031

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: DEFENSE METEOROLOGICAL SATELLITE PROGRAM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TACTICAL DATA RECEIPT PROCESSING:										
SMALL TACTICAL TERMINAL (STT)										
FY96 (BASIC)	HARRIS CORP	OPT/FFP [1]	AFMC/SMC	DEC 95	DEC 96	12	192 [2]			
(ENHANCED)	MELBOURNE, FL					39	250 [2]			
FY97 (ENHANCED)	HARRIS CORP	OPT/FFP [3]	AFMC/SMC	NOV 96	MAY 97 [4]	19 [4]	267 [2/5a]			
(JOINT TASK FORCE)	MELBOURNE, FL					5 [4]	641 [2/5a]			
FY98 (BASIC)	HARRIS CORP	OPT/FFP [3]	AFMC/SMC	NOV 97	FEB 98 [4]	3 [4]	239 [2/5b]	YES	NO	
(ENHANCED)	MELBOURNE, FL					30 [4]	314 [2/5b]			
FY99 (BASIC)	HARRIS CORP	OPT/FFP [3]	AFMC/SMC	NOV 98	FEB 99 [4]	6 [4]	251 [2/5c]	YES	NO	
(ENHANCED)	MELBOURNE, FL					17 [4]	326 [2/5c]			

D. REMARKS

1. STT BASIC CONTRACT (#FO 4701-94-C-0019) WAS AWARDED ON 15 JUN 94.
2. UNIT COSTS VARY DUE TO DIFFERENT STT CONFIGURATIONS. UNIT COSTS INCREASED DUE TO ENGINEERING CHANGES NECESSITATED BY DEFICIENCIES IDENTIFIED DURING JUN 95 INITIAL OPERATIONAL TEST & EVALUATION (IOT&E).
3. BASIC CONTRACT FOR STT'S ENDS IN FY96. FY97 AND SUBSEQUENT YEARS ARE EXTENDED OPTIONS NEGOTIATED WITH HARRIS CORP.
4. BASED ON RECENT EXPERIENCE WITH INITIAL PRODUCTION UNITS THE CONTRACTOR REVISED THE UNIT PRODUCTION/DELIVERY SCHEDULE.
5. PRICING TABLES WILL BE FINALIZED UPON NEGOTIATIONS COMPLETION (PROJECTED FOR JUN 97). THEREFORE, PRICING IS BASED ON PRELIMINARY ESTIMATED COSTS OBTAINED DURING EARLY STAGES OF NEGOTIATION.
   A. FY 97: ESTIMATE REFLECTS AN INCREASE FOR BASIC UNIT INFLATION AND FOR ENHANCEMENT KIT/AWARD FEE INCREASE.
   B. FY 98: ESTIMATE REFLECTS ENHANCED UNIT PRICE INCREASE, INFLATION AND AWARD FEE INCREASE.
   C. FY 99: ESTIMATE REFLECTS AN INCREASE FOR UNIT PRICE INCREASE AND INFLATION.

FY98/99 PB					P-1 ITEM NOMENCLATURE			DMSP												DATE: FEBRUARY 1997																											
ITEM/MFG PROCUREMENT YEAR	S E R V	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97															FISCAL YEAR 98													FISCAL YEAR 99													LATER
					96	96	96	CALENDAR YEAR 97												CALENDAR YEAR 98													CALENDAR YEAR 99													
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
SMALL TACTICAL TERMINAL (STT)																																												
FY95	AF	45	23	22	10	10	2																																					0
FY96	AF	51	0	51			8	10	10	10	10	3																															0
FY97	AF	24	0	24		C						7	10	7																													0
FY98	AF	33	0	33														C			10	10	10	3																		0
FY99	AF	23	0	23																										C			10	10	3							0
TOTAL		176	23	153	10	10	10	10	10	10	10	10	10	7	0	0	0	0	0	0	10	10	10	3	0	0	0	0	0	0	0	0	10	10	3	0	0	0	0	0	0

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA-SON	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
HARRIS CORP MELBOURNE, FL	1 MO		10 MO		INITIAL				
					REORDER		1	3	4

REMARKS:
THE STT CONTRACT SPECIFIES MONTH OF LAST DELIVERY AND NO-LATER-THAN DATES FOR EXERCISING ANNUAL OPTIONS. MINIMUM LEAD TIME BETWEEN OPTION EXERCISE AND FIRST UNIT DELIVERY IS TWO MONTHS.

FUNDING REDUCTIONS DECREASED THE NUMBER OF UNITS TO BE PRODUCED IN 97. THESE UNITS WILL BE PRODUCED IN 98 & 99.

P-1 SHOPPING LIST ITEM NO. 66

PAGE OF PAGES
EXHIBIT P-21

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NUDET DETECTION SYSTEM (NDS)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.580	2.085	7.995	1.313	1.797	1.597	3.513	-

The Nuclear Detonation (NUDET) Detection System (NDS) provides a worldwide, highly survivable, near real-time capability to detect, locate, and report nuclear detonations in the earth's atmosphere or in near space. The NDS 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). The NDS consists of space, control, and user equipment segments. The space segment consists of NUDET detection sensors on the Global Positioning System (GPS)/NDS satellites, the control segment consists of the Integrated Correlation and Display System (ICADS), and the user segment consists of Ground NDS Terminals (GNT).

NDS USER EQUIPMENT: The user segment Ground NDS Terminals (GNT) process raw NDS sensor data and are the only systems that provide immediate NUDET detection, analysis, and reporting to the DoD and the National Command Authorities (NCA). Presently, the NDS supports national level missions for AFSPC, US Space Command (USSPACECOM), USSTRATCOM, Air Combat Command (ACC), AFTAC, NCA, and Congress. NUDET reporting is required for the ITW/AA, nuclear force management (NFM), and nuclear treaty monitoring. NUDET reporting has recently been reemphasized by the Chairman of the Joint Chiefs of Staff as the second highest priority of attack information required by the warfighters. In addition, a Presidential Decision Directive requires spaced based monitoring as a key part of the treaty monitoring and verification process for the Comprehensive Test Ban Treaty (CTBT). Finally, as the threat from nations with nuclear weapons continues to grow, the Integrated Correlation and Display System (ICADS) and Advanced Radiation Detection Units (ARDU) are the only operational systems that detect, locate, and identify an atmospheric or space NUDET.

FY96 funds procured upgrades to the ICADS, computer replacement for two main operational sites (AFTAC and AFSPC) and three remote sites (Department of Energy (DoE)/Sandia National Labs, Los Alamos National Lab, and Malabar Annex). The FY96 funds for the ARDU procured keyboards and site automated data processing (ADP) equipment.

FY97 funds for the ICADS procured the GPS receivers to replace existing receivers, serial port controllers, track recording devices for mission data, and user terminals. The FY97 funds for the ARDU will procure mission data computer printers and upgrade obsolete system workstations.

FY98 funding begins communications upgrades to the ICADS ground system to support compatibility with Block II-R and Block II-F satellite launches.

FY99 will continue life cycle replacement of ICADS computers, receivers, antennas, communication links, and peripheral devices.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME NUDET DETECTION SYSTEM (NDS)	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NDS USER EQUIPMENT													
ICADS HARDWARE UPGRADE	A	VAR	N/A	5,350	VAR	N/A	1,500	VAR	N/A	7,995	VAR	N/A	1,313
ADRU HARDWARE UPGRADE	A	VAR	N/A	230	VAR	N/A	585						
TOTAL				5,580			2,085			7,995			1,313

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NUDET DETECTION SYSTEM (NDS)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
NDS USER EQUIPMENT										
ICADS HARDWARE UPGRADE										
FY96	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	MAR 96	APR 96	VAR	N/A [2]			
FY97	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	JAN 97	DEC 97	VAR	N/A [2]			
FY98	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	DEC 97	DEC 98	VAR	N/A [2]	YES	NO	
FY99	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	DEC 98	DEC 99	VAR	N/A [2]	YES	NO	
ARDU HARDWARE UPGRADE										
FY96	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	MAR 96	DEC 96	VAR	N/A [2]			
FY97	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT [1]	AFMC/SMC	JAN 97	DEC 97	VAR	N/A [2]			

D. REMARKS
1. OPTION TO DEPT OF ENERGY (DOE)/SANDIA NATIONAL LABS FIRM FIXED PRICE CONTRACT #92-920330, DATED APR 92.
2. UNIT COSTS VARY DUE TO MULTIPLE TYPES OF COMPUTER HARDWARE BEING PROCURED.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	24.094	17.144	32.197	40.025	24.961	34.447	47.022	47.350

The Air Force Satellite Control Network (AFSCN) mission is to fly operational USAF and other DoD satellites. The AFSCN also provides mandatory launch and early orbit tracking operations in support of all major U.S. launches. Air Force Space Command (AFSPC) performs operations and maintenance and Air Force Materiel Command (AFMC) performs modernization and sustainment of the system to meet requirements validated by a HQ USAF approved Operational Requirements Document (ORD). This project procures mission critical electronics and telecommunications equipment for aging command and control, communications (C3), and range elements of the AFSCN to ensure DoD space systems are operationally ready to support the CINCs' (Commanders-in-Chief) warfighting requirements.

The AFSCN consists of three segments: Command and Control (C2), Communications, and Range. The system is a global infrastructure of control centers, remote tracking stations, and communications links that provide the highly reliable command and control, communications, and range systems required to support the nation's surveillance, navigation, communications, and weather satellite operations. As a national asset, the AFSCN is the DoD common user network that provides satellite state-of-health, tracking, telemetry, and commanding (TT&C) for the following operational satellite systems: DMSP (Defense Satellite Meteorological Program), GPS (Global Positioning System), DSCS (Defense Satellite Communications System), DSP (Defense Support Program), FLTSAT (Fleet Satellite), MILSTAR (Military Strategic and Tactical Relay Satellite), Skynet, NATO (North Atlantic Treaty Organization) II/IV, and classified programs.

The Satellite and Launch Control Systems Program Office (located at Space and Missile Systems Center (SMC)) is the system acquisition manager. Under the direction of the SMC System Program Director, Sacramento Air Logistics Center (SM-ALC) has been designated as the Support System Manager and the Source of Repair for that portion of the AFSCN systems operated by Air Force Space Command.

AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&M): AFSCN I&M is an on-going program of replacements and upgrades which will meet HQ USAF validated AFSPC operational requirements to replace non-standard, unsupportable equipment with commercial-off-the-shelf (COTS) hardware and software. This new equipment will enable AFSPC satellite operations to be performed with fewer and lower skill level personnel, and will significantly reduce hardware/software (HW/SW) maintenance costs. The principal efforts within this program are:

a. **COMMAND & CONTROL SYSTEM UPGRADES (CCSU):** This project will replace the current C2 System segment of the AFSCN. The current CCS provides approximately 130,000 real-time satellite contacts per year using an old IBM mainframe-based, centralized computer system. The new system, the Standard Satellite Control Subsystem (SSCS), will employ a client/server, open architecture system using a high-speed communications backbone. It will use standard HW/SW elements and will provide improved capability with reduced operations and support (O&S) costs. The mission critical computer systems which are to be replaced perform satellite telemetry processing and commanding, orbit data processing, network scheduling, and software/database maintenance and

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

testing in AFSCN satellite operations centers, mission control complexes, scheduling complexes, and related training and operational software support facilities. The Resource Management System (RMS), which deconflicts and allocates network telemetry, tracking & command (TT&C) assets to support operational space vehicles will be replaced with an automated system which includes selected orbit and radio frequency interference functions to enable more rapid and efficient use of network resources. This evolution offers tremendous potential for reducing satellite control operation & maintenance (O&M) costs through enhanced commonality and standardization, simplified operations, and automation. Commercial-off-the-shelf (COTS) HW/SW will be procured for the RMS (network scheduling which includes portions of space safety and hazard analysis previously provided by Intra-Range Operations facilities) and the Standard Satellite Control Subsystem (SSCS). The SSCS upgrades will be based upon the satellite programs prioritized list of needed enhancements and will be implemented in a phased approach to meet satellite program windows of opportunity.

FY96 funding procured the hardware suites for RMS primary and backup operations centers. The RMS hardware suites consist of workstations, servers, a local area network (LAN), computer security devices and hubs to support the AFSCN scheduling and orbit services at Falcon AFB, CO and one backup station. The initial set of the Standard Satellite Control Subsystem (SSCS) hardware was also acquired and includes workstations, a LAN, servers and hubs. The SSCS hardware was installed in the SSCS lab for development and checkout before transition to the first satellite program for operational use.

FY97 funding will procure two (2) copies of the SSCS hardware suite for delivery to AFSPC prioritized satellite programs for integration into their mission ground systems. The SSCS will be a COTS purchase of the Distributed Command and Control System (DCCS), a TT&C system that has been developed by another government organization. The SSCS hardware suite consists of workstations, a LAN, telemetry front-end processing equipment and servers.

FY98 funding will procure one (1) copy of the SSCS hardware suite for delivery to a AFSPC prioritized satellite program for integration into its mission ground system.

FY99 will procure one (1) copy of the SSCS hardware suite for delivery to a AFSPC prioritized satellite program for integration into its mission ground system. It will also procure the hardware suites for the primary and backup space safety and hazard analysis service (SSHA) for the AFSCN. The primary and backup SSHA hardware suites consist of workstations, servers, printers, and LAN network hubs.

b. **RANGE AND COMMUNICATIONS UPGRADES:** These projects will transition the current, costly point-to-point AFSCN communications network to a communications grid system that integrates government and commercial networks as technology becomes available. Several standardization efforts are being implemented to improve and modernize the communications and ground segment elements of the AFSCN, including: (1) archival recorder systems to replace

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

obsolete, manpower-intensive analog equipment with automated, standardized digital COTS systems; (2) a Centralized Control & Monitor (CC&M) system which will consolidate communications operations, provide remote control of tracking station communication equipment, and increase fault detection and isolation capabilities to reduce O&M costs; and (3) Wide Area Network Interface Units (WANIU) which standardize hardware, enable future access to the Defense Information System Network (DISN) for access to the DISN global grid, and reduce O&M costs for performing multiplexing functions in the AFSCN. Capacity, reliability, data quality, and user access to the AFSCN will be improved.

FY96 funding included procurement and installation of additional archival recorder system units for the Remote Ground Facilities (RGFs). An Engineering Change Proposal will be implemented for the Downlink Terminal (DLT) upgrade which will provide DLT connectivity to Falcon AFB (FAFB), CO that is identical to the current configuration on narrowband communication lines at Onizuka Air Station, CA.

FY97 funding will correct system deficiencies as identified and prioritized by AFSPC as part of the overall Range and Communications plan.

FY98 will procure equipment for the first Operational Switch Replacement (OSR) to be installed and operational no later than FY00 to meet Onizuka AS, CA realignment requirements identified by base realignment and closure directives, and to provide ATM switching capability for the AFSCN. Funding will also procure and install client/server hardware to replace the antiquated Automated Remote Tracking Station (ARTS) Control and Status (C&S) personal computer-based architecture. Additionally, it will procure and install the Range and Communications Centralized Control and Monitor (RC^3M) system hardware to provide remote control and status of range equipment utilizing the Centralized Control & Monitor (CC&M) architecture.

FY99 funding will procure equipment for a second OSR; this redundancy will meet AFSPC requirements that specify there shall be no single points of failure. Funds will also complete procurement of RC^3M system hardware.

(continued)

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

c. **SECURITY UPGRADES:** These security upgrade projects improve security for assets essential to the assured operational capability of the AFSCN.

FY 98 funding will procure and install equipment to replace computers in the existing security control system buried-line intrusion detection system on the perimeter of the AFSCN control node at Falcon AFB, CO.

FY 99 funding will replace the security control system microwave intrusion detection system at the AFSCN Control Node with an infrared detection system, and will procure and install equipment for Defense Satellite Communications System building to interface with the security control system at Falcon AFB, CO.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
AFSCN I & M		VAR	N/A	(24,094)	VAR	N/A	(17,144)	VAR	N/A	(32,197)	VAR	N/A	(40,025)
a. COMMAND & CONTROL SYSTEM UPGRADES	A			12,774			13,500			6,100			13,305
b. RANGE AND COMM UPGRADES	A			11,320			3,644			24,997			22,120
c. SECURITY UPGRADES										1,100			4,600
TOTAL				24,094			17,144			32,197			40,025

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AFSCN I&M										
A. COMMAND & CONTROL UPGRADES										
FY96	LOCKHEED MARTIN FED SYS (LMFS) COLORADO SPG, CO	C/CPAF	AFMC/SMC	MAY 96	MULTI	1 [1]	N/A [2]			
FY97	LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC	JUL 97	MULTI	2 [1]	N/A [2]	YES	NO	
FY98	LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC	DEC 97	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 97
FY99	LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC	DEC 98	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 98
B. RANGE & COMM UPGRADES										
FY96	LOCKHEED MARTIN SUNNYVALE, CA	C/CPAF	AFMC/SMC	MAR 96	MULTI	1 [1]	N/A [2]			
FY97	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	JUL 97	MULTI	1 [1]	N/A [2]	YES	NO	
FY98	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	DEC 97	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 97
FY99	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	DEC 98	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 98
C. SECURITY UPGRADES										
FY98	ALLIED SIGNAL COLORADO SP, CO	OPT/CPAF [4]	AFMC/SM-ALC	OCT 97	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 97
FY99	ALLIED SIGNAL COLORADO SP, CO	OPT/CPAF [4]	AFMC/SM-ALC	OCT 98	MULTI	1 [1]	N/A [2]	NO [3]	YES	SEP 98

D. REMARKS

1. A QUANTITY OF "1" INDICATES ONE LOT OF EQUIPMENT ASSOCIATED WITH A SPECIFIC OPERATIONAL CAPABILITY.
2. UNIT COSTS VARY BECAUSE OF DIFFERENT TYPES/CONFIGURATIONS OF EQUIPMENT BEING PROCURED.
3. SPECIFICATIONS ARE GENERATED FOR EACH INDIVIDUAL PROJECT TO SATISFY SPECIFIC OPERATIONAL NEEDS.
4. OPTION TO PRIOR YEAR SM-ALC EQUIPMENT CONTRACT FOR SECURITY SYSTEMS WITH ALLIED SIGNAL CORP.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	110.447	101.695	81.957	100.938	96.205	102.239	114.955	99.421

Two national ranges, the Eastern Range (ER) at Patrick AFB, FL, and the Western Range (WR) at Vandenberg AFB, CA, provide tracking, telemetry, communications, command/control, and other support capabilities necessary to safely and successfully conduct civil, commercial, and national security spacelift operations, ballistic missile test and evaluation (T&E), and a variety of aeronautical and guided weapons T&E. Range assets are based on 1950s/1960s designs and technology and are arrayed in a highly inefficient, manpower-intensive architecture. Range instrumentation reliability is deteriorating and over 40 percent of the components are obsolete with no sources of support. The ranges do not provide the responsiveness and flexibility critical to affordably support the nation's spacelift needs. Replacement of the aging systems is a necessity. Accordingly, the Air Force is upgrading the ranges through two closely related efforts. The Range Standardization and Automation Program (RSA) will improve operability while reducing operations and maintenance costs, and the Improvement and Modernization (I&M) program will provide continuing range enhancement.

The RSA program will completely overhaul and modernize both the ER and the WR, treating the two as a single integrated range system with an Eastern and Western segment. RSA will develop the integrated range system, using remote control and automation techniques to reduce the number of required operators, sites and facilities, and to produce improved responsiveness. The result will be a range system reconfigurable from one major operation to another in less than four hours versus the 2-3 days, capable of being operated for 20 percent less cost than current ranges, and supportable through existing Air Force logistics infrastructure and standard practices. RSA is critical to the future of the spacelift ranges; performance and cost goals cannot be achieved without RSA.

The I&M program enhances critical systems to maintain current capabilities until RSA is implemented; upgrades fielded systems and maintains compatibility with RSA; and continues to improve the ranges after RSA is implemented. To comprehensively manage the range I&M program, the Air Force defines the components/functions of both the ER and WR as an integrated weapon system consisting of three major segments: Instrumentation, Network and Control/Display. The Instrumentation Segment includes command functions and sensors which perform telemetry, tracking, weather, launch area surveillance, and optical data collection. The Network Segment includes the hardware and associated software necessary for voice, data, and video communications, time synchronization and frequency management control. The Control/Display Segment provides data processing and display of information necessary for range and launch operations personnel to execute their mission responsibilities.

Following are details of the FY96-99 program:

1. <u>RANGE STANDARDIZATION AND AUTOMATION (RSA):</u> The RSA program will completely overhaul and redesign the ER and WR. RSA program objectives include: (a) replacing or eliminating over 25,000 obsolete components, many of which have no sources for spares; (b) standardizing equipment and operations across both ranges; (c) eliminating reliance upon separate, non-standard logistics support and depot maintenance infrastructures; and (d) incorporating automation and remote control to consolidate sites and functions, thus increasing responsiveness and significantly reducing the manpower required

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

for operations and maintenance. The two key payoffs of RSA are the reduction in operations and maintenance costs by over 20 percent; and the reduction of range configuration time between major operations from between 36-72 hours, to less than four hours. In FY97, the RSA Phase I contract will purchase commercial-off-the-shelf equipment for the Satellite Communications (SATCOM) System supporting the ER, Antigua, and Ascension Islands. Also in FY97, RSA Phase I will complete instrumentation and software builds in the test facility for the Centralized Telemetry Processing System (CTPS) and Cape Fiber Optic Network (CFON).

The RSA Phase IIA contract, awarded in November 1995, will provide a complete Spacelift Range System (SLRS) design defined by a System Specification and Baseline System Description. It will replace imaging, surveillance, weather, optics, range communications and mobile systems. It will also provide instrumentation for a new WR Operations Control Center (WROCC). Incremental delivery of products on this contract will provide an operational capability as soon as possible. Scheduled deliveries are based on the most effective reductions in life cycle costs and to maintain and enhance operational reliability. The first increment included basic infrastructure, planning and scheduling systems. Early in FY97, the balance of the first increment, including optics instrumentation and weather instrumentation, continued with test and evaluation activities. The second increment will begin procurement in FY98, to include the Network Manager. This increment will continue in FY99 with the purchase of the core equipment which includes multiplexing and end item equipment. Final purchases will occur in FY99 for timing, voice, data, and video handling equipment. The third increment includes flight operations analysis equipment/software and Range Safety Systems and will start in late FY99. In total, this contract includes six incremental capability deliveries to be turned over operationally by 2006. This contract continues through 2006 to integrate the product deliveries from RSA Phase IIB in FY00 and the I&M program.

2. **EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION**

a. **INSTRUMENTATION SEGMENT:**

FY96 funding replaced obsolete and unreliable components with new technology hardware; provided needed upgrades to existing range systems to interface to the RSA Phase I design and protocols; procured Global Positioning System (GPS) based atmospheric sounding systems; upgraded radar and telemetry system computers to allow remote control under the RSA concept; replaced obsolete and unsupportable radar klystron transmitters; upgraded the weather radar to improve volumetric scan display capability; and replaced obsolete measurement and analysis equipment.
FY97 funds procures additional upgrades to existing range systems to interface to RSA Phase I, procures additional GPS based sounding systems, and continues replacing obsolete measurement and analysis equipment.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

FY98 funds will procure Ground Translator Processor Systems (GTPS) at the Cape Canaveral Air Site (CCAS), Jonathan Dickenson Missile Tracking Annex (JDMTA), Antigua Consolidated Instrumentation Facility (CIF), Ascension CIF, Bermuda, and Argentia sites.

FY99 funds the Radar Embedded Computer effort to replace aging real-time operating computers, and the acquisition of Doppler Weather Radar. FY99 funding will also initiate instrumentation upgrades, and complete upgrades to improve Multiple Object Tracking Radar (MOTR) tracking capabilities.

b. **NETWORK SEGMENT:** This project complements the communications upgrades under the RSA program. Funding for this project includes modernizing existing range systems in accordance with RSA design or enhancing existing equipment until it is replaced under the RSA program.

FY96 funds provided communications backbone upgrades that will extend the RSA Phase I system design out to individual user facilities, replace lead airfilled cables at CCAS, replace existing cables at Ascension Island with fiber optic cable, provide needed upgrades to deteriorated power distribution systems at CCAS fiber optic node sites, and purchase additional timing system equipment.

FY97 funds provide additional communications backbone upgrades and replace obsolete and unsupportable Transistorized Operational Phone System (TOPS) and point-to-point phones.

FY98 funds will replace existing analog voice communications systems with a digital intercom system, which will support both secure and non-secure voice communications.

FY99 funds will complete acquisition/installation/integration of the Range-Wide Digital Intercom System.

c. **CONTROL/DISPLAY SEGMENT:** This equipment enhances range data processing capabilities until the RSA data processing architecture is completed.

FY96 funding provided needed upgrades to existing range systems to interface to the RSA Phase I design and protocols, and continues modernization of additional meteorological and mission processing and display systems.

FY97 funding provides additional upgrades to existing range systems to interface to the RSA Phase I design and protocols, replace the unreliable Central Command Remoting System and continues modernization of additional meteorological and mission processing and display systems.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

FY98 funds will upgrade the Count Distribution System to increase automation, improve maintainability, and reduce overall manpower requirements.

FY99 funds will initiate replacement of the meteorological sounding system with a GPS based sounding system and acquisition of the Air Force Automated Weather Dissemination System.

3. **WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION**

a. **INSTRUMENTATION SEGMENT:** FY96-99 funds continue life extension upgrades to tracking radar, surveillance, optics, and command, control and weather instrumentation sites as required until the RSA program replaces aging equipment.

FY96 funding procured the following systems and upgrades: advanced telemetry recording capability and life extension upgrades; air and ocean surveillance system replacements and upgrades; radar system life extension; and new weather systems (including boundary layer wind profilers) and a GPS based automated meteorological processing system).

FY97/98 funding will provide upgrades to telemetry, optics, and radar systems to provide life extension until delivery of the RSA program replacements.

FY99 funds will purchase a second mobile telemetry receiving station with GPS.

b. NETWORK SEGMENT: This project complements the RSA program by modernizing existing range systems in accordance with RSA design or enhancing existing equipment until it is replaced under the RSA program.

FY96 funding procured the communications system upgrade for the Ewa Beach, HI, high frequency (HF) site, replaced the AN/TPQ-18 communications system, replaced the Molokai, HI antenna, replaced ultra high frequency/very high frequency (UHF/VHF) radio systems at four remote sites (Anderson Peak, Pillar Point, Wheeler AFS, and Vandenberg Telemetry Receiving Station), replaced electromagnetic interference/electromagnetic compatibility test equipment, upgraded the frequency monitoring station communications system, and upgraded Anderson Peak communications.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

FY97 will procure operational voice system and video system replacements, upgrade backup power for the Ewa Beach HF site, continue upgrades for the Anderson Peak Communications System, replace the Command Transmitter Communications Site equipment, replace the Secure Transmission System (STS) Command Transmitter Decoder, upgrade the Frequency Monitoring Station (FMS) Telemetry Monitoring Station, upgrade the status and alert transmission system, upgrade the data transfer center wideband distribution system and replace the Operational System Test Facility antenna system.

FY98 will procure: a Frequency Monitoring Van, a Radio Frequency Interference Van, a Western Range Mobile Communications Van, a Range Safety Missile Flight Battery, a Narrowband Communications System, a Voice Communication Panel, Anechoic Test Facility Replacements, a GPS Timing Network, CT-2 and 3 Communication Systems, an FMS Transmission System, a Secure Code Insertion Unit, Operations Control Center (OCC) Visual Displays, and Range Video Transmission upgrades.

FY99 funds will replace the Range Video Transmission System, procure a Mobile Communications Van capability, install Network Life Extensions and upgrade Bldg 7000 Data Transfer at Vandenberg AFB, replace Radio Frequency Equipment, upgrade Remote Site Audio, install additional OCC Visual Displays, and upgrade remote site UHF/VHF radios and portable UHF radios.

c. **CONTROL/DISPLAY SEGMENT:** This equipment enhances range data processing capabilities until the RSA data processing architecture is complete.

FY96 funds procured a common ER and WR Meteorological Interactive Data Display System and a Range Safety Deficiencies Corrections (RDSC) console upgrade.

FY97 funding purchases the Data Distribution Interface to the RSDC system, a Metric Data Processing System (MDPS), and an Acquisition Data System (ADS).

FY98 will correct range safety deficiencies, and upgrade Universal Telemetry Inertial Guidance and DC-80 printer plotters.

FY99 funding will procure Weather and Surveillance Data Processing Life Extensions, complete the WR MDPS and the RSDC upgrades, and provide for Data Integrated Processing System (DIPS) Plotboard (PB) replacement.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE
FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		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)	A	VAR	N/A	(38,795)	VAR	N/A	(36,104)	VAR	N/A	(27,981)	VAR	N/A	(49,519)
a. Phase I				6,045			6,142						
b. Phase IIA				32,750			29,962			27,981			49,519
2. EAST RANGE (ER) I & M		VAR	N/A	(41,429)	VAR	N/A	(33,843)	VAR	N/A	(27,087)	VAR	N/A	(28,369)
a. INSTRUMENTATION SEGMENT	A			19,756			8,150			8,525			14,120
b. NETWORK SEGMENT	A			10,780			15,890			16,599			7,744
c. CONTROL/DISPLAY SEGMENT	A			10,893			9,803			1,963			6,505
3. WEST RANGE (WR) I & M		VAR	N/A	(30,223)	VAR	N/A	(31,748)	VAR	N/A	(26,889)	VAR	N/A	(23,050)
a. INSTRUMENTATION SEGMENT	A			15,853			8,655			9,366			8,863
b. NETWORK SEGMENT	A			10,004			18,260			10,329			10,065
c. CONTROL/DISPLAY SEGMENT	A			4,366			4,833			7,194			4,122
TOTAL				110,447			101,695			81,957			100,938

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	69	195	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. RANGE STANDARDIZATION AND AUTOMATION (RSA)										
PHASE I [1]										
FY96	HARRIS CORP MELBOURNE, FL	OPT/CPAF [2]	AFMC/SMC	MAR 96	AUG 96	VAR	N/A [3]			
FY97	HARRIS CORP MELBOURNE, FL	OPT/CPAF [2]	AFMC/SMC	JAN 97	JUN 97	VAR	N/A [3]			
PHASE II A [4]										
FY96	LOCKHEED MARTIN SUNNYVALE, CA	C/CPAF/CPFF	AFMC/SMC	NOV 95	DEC 96	VAR	N/A [3]			
FY97	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 96	APR 97	VAR	N/A [3]			
FY98	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 97	MAR 98	VAR	N/A [3]	YES[6]	NO	
FY99	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 98	JAN 99	VAR	N/A [3]	YES[6]	NO	

D. REMARKS
BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
69	196	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY96	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JUL 96	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 97	MULTI [5]	VAR [5]	N/A [5]			
FY98	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 99	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
B. NETWORK SEGMENT										
FY96	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 96	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP [5]	AFMC/SMC	FEB 97	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY98	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 99	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
C. CONTROL/DISPLAY SEGMENT										
FY96	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 96	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 97	MULTI [5]	VAR [5]	N/A [5]			
FY98	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP [5]	AFMC/SMC	JAN 99	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	

D. REMARKS
BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY96	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 96	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 97	MULTI [5]	VAR [5]	N/A [5]			
FY98	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 99	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
B. NETWORK SEGMENT										
FY96	MULTIPLE [5]	C/FP	AFMC/SMC	DEC 95	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP	AFMC/SMC	DEC 96	MULTI [5]	VAR [5]	N/A [5]			
FY98	MULTIPLE [5]	C/FP	AFMC/SMC	DEC 97	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP	AFMC/SMC	DEC 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
C. CONTROL/DISPLAY SEGMENT										
FY96	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 96	MULTI [5]	VAR [5]	N/A [5]			
FY97	MULTIPLE [5]	C/FP	AFMC/SMC	MAR 97	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY98	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 98	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	
FY99	MULTIPLE [5]	C/FP	AFMC/SMC	JAN 99	MULTI [5]	VAR [5]	N/A [5]	YES [6]	NO	

D. REMARKS
BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FOOTNOTES:

1. The RSA Phase 1 contract is for radar trackers and transmitters for Antigua and Ascension Islands, central telemetry processing systems for both ranges, and fiber optics and satellite communications networks for the Eastern Range.

2. Option to competitive FY93 cost plus award fee contract to Harris Corp.

3. Multiple types of equipment resulting in various unit costs.

4. The RSA Phase IIA contract is a competitively awarded contract (with options for six years) to provide a system-wide range architecture replacing imaging, surveillance, weather, optics, range communications, and mobile systems.

5. Procurement will consist of numerous individual components to retrofit obsolete and worn out equipment currently in use until replaced by RSA. Parts are integrated by the range contractor (Computer Sciences/Raytheon at Cape Canaveral, FL or ITT Federal Systems at Vandenberg AFB ,CA). Contractors are typically General Electric/RCA (several divisions), Raytheon, Datron, Control Data Corp, Gould Sel Systems, Collins, Hewlett-Packard, Teledyne, Varian, and several small businesses located at or near Vandenberg or Cape Canaveral. Above award dates indicate date of first contract award. Multiple delivery dates. Quantities and unit costs vary because of various components being procured.

6. The RSA Phase IIA contractor is the integrator for RSA and I&M projects. Acquisition reform allowed the RSA Phase IIA contractor to define the Spacelift Range System after contract award (Nov 95). The RSA Phase IIA contractor will deliver a System Specification in Feb 97. The System Specification will definitize the Spacelift Range System for the Eastern and Western Ranges. Award dates reflect the first contract award of several contracts awarded throughout the year.

D. REMARKS BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.			
	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 199	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MILSATCOM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	47.708	52.042	20.353	27.893	32.521	25.906	21.842	21.942

MILSATCOM is a joint service satellite communications system that provides secure, jam-resistant, 24-hour, worldwide communications to meet essential strategic, tactical, and general purpose operational requirements for high-priority military users. The equipment supports validated communication requirements for the National Command Authorities (NCA), Unified and Specified Commanders-in-Chief (CINC), services, and agencies.

1. **MILSTAR - AF TERMINALS:** The Air Force is responsible for the procurement of Command Post Terminals and ground-based mission control equipment to operate over the military satellite communications system.

COMMAND POST TERMINALS: Command Post Terminals (CPTs) support communications at major NCA and CINC command centers, as well as the relay of warning data from sensor sites. Prior year funding procured 59 ground terminals (nine fixed extremely high frequency/ultra high frequency (EHF/UHF), 28 fixed EHF-only, six transportable EHF/UHF, seven transportable EHF-only, two EHF/UHF platform sets, and seven EHF-only platform sets).

FY96 funds provided installation support, factory repair (until turnover), data, interim contractor support, system engineering, and program support.

FY97 funds continue installation support, factory repair, system engineering and program support, and provide for terminal enhancements such as computer processor upgrades.

FY98/99 funds will continue to provide installation support, factory repair, system engineering and program support.

2. **MILSTAR TACTICAL TERMINALS**: Certain Air Force users require extremely high frequency (EHF) Milstar connectivity, but with less capability than that provided by the Command Post Terminals. These users will employ two types of Army-procured ground tactical terminals to satisfy their Milstar requirements.

a. **SINGLE CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS:** SCAMP is a single channel 37-pound portable manpack designed for use with the Milstar EHF package. It is capable of transmitting/receiving low data rate (LDR) voice, data and facsimiles. The Air Force procurement of SCAMP supports HQ US Strategic Command (USSTRATCOM) and Air Force Special Operations Command (AFSOC) communications requirements and replaces connectivity currently provided by the Ground Wave Emergency Network (GWEN).

FY96/97 funds procure 55 and 99 SCAMPs respectively, for a total of 154, along with associated electromagnetic pulse hardened input/output devices. This buys out the SCAMP requirement. Additionally, FY96-99 funding provides for program and engineering support.

b. **SECURE, MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T):** SMART-T is a multi-channel communications platform designed for use with Milstar EHF. It is capable of transmitting/receiving low data rate (LDR) and medium data rate (MDR) voice, data and facsimiles. The Air Force procurement of SMART-T supports Air Force Space Command (AFSPC), Air Intelligence Agency (AIA), Air Mobility Command (AMC), Pacific Air Forces (PACAF) and US Air Force Europe (USAFE) communications requirements.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MILSATCOM				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

FY97 funds procure nine low-rate initial production (LRIP) SMART-Ts; three SMART-T terminals for USAFE and six for AMC.
FY98 funds provide for engineering and program support to ensure AF requirements are met prior to full-scale production of the Army contract.
FY 99 funds provide 20 full-scale production SMART-T Army terminals with associated program and engineering support out of a total planned procurement of 73; two for Air Combat Command (ACC), three for PACAF, six for AMC, two for USAFE, two for AIA, and five for AFSPC.

RDT&E information can be found on the Descriptive Summaries - 2487 MILSATCOM Terminals, PE 33601F.

3. **ULTRA HIGH FREQUENCY (UHF) SATELLITE COMMUNICATIONS (SATCOM):** Increasing requirements for UHF satellite capacity, coupled with limited channel capacity, led the Joint Staff to mandate new interoperability standards for UHF users that are designed to improve satellite access and efficiency by utilizing Demand Assigned Multiple Access (DAMA) techniques.

a. **NETWORK CONTROL SYSTEM (NCS):** To satisfy a Joint Chief of Staff (JCS) mandate to implement DAMA on 5 Kilohertz (KHZ) and 25 KHZ UHF communications channels, the Air Force is procuring four network controllers to field an initial system capable of controlling five channels of 5 KHZ DAMA and two channels at 25 KHZ DAMA at four sites worldwide.
FY96 funds procured and installed initial NCSs including modems, radios, antennas, and computers along with site survey, integration and program support.
FY97 continues program support and site surveys and integration, and provides interim contractor (ICS) support for the four network control system sites.
FY98 funds will continue program support and ICS.
FY99 funds will continue program support and provide for NCS terminal enhancements resulting from military standard (MILSTD) updates.

b. **GROUND TERMINALS:** The Air Force is procuring DAMA-capable Enhanced Manpack UHF Terminals (EMUT) and ancillary equipment (power supplies, vehicles mounts, antenna, and input/output devices) to support Air Force Special Operations Command (AFSOC), AMC, ACC, and other users in response to the Joint Chief of Staff (JCS) mandate to implement DAMA for UHF satellite access.
FY96 funding provided EMUT ancillary equipment for EMUTs procured in FY92 and FY93, as well as program support.
FY97 funding procures 200 EMUTs, associated ancillary equipment, and program support.
FY98 procures 223 Multiband Multimission Radios (MBMMR) for Air Force Special Operations Command (AFSOC) and associated program support.
FY99 funds enhancements of fielded terminals resulting from MILSTD updates, and program support.

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **SUPER HIGH FREQUENCY (SHF) TERMINALS**: SHF terminals support the command and control requirements of unified and specified Commanders-in-Chief (CINCs) and the connectivity requirements of the National Command Authority, US strategic and tactical forces and NATO. DSCS is a major component of the Defense Communications System (DCS). The Air Force has responsibility for selected locations which help comprise the ground segment. In addition to procuring the following systems' equipment, FY97/98/99 funding also provides program support.

Ground Mobile Forces Satellite Communications (GMFSC) provide survivable, jam resistant communications for rapid tactical and crisis/contingency operations. Terminals support the Theater Air Control System, Rapid Deployment Forces, and National Command Authority (NCA)/Joint Chiefs of Staff (JCS) directed operations. FY96 funds procured equipment for evaluating Defense Satellite Communications System (DSCS) control orderwire systems.

Jam Resistant Secure Communications (JRSC) network is a subnet of the DSCS. It provides jam resistant, secure, nuclear effects protected MILSATCOM connectivity between selected Air Force facilities and elements of the NCA. This equipment has the ability to either stabilize or maximize the data throughout for the critical communications lines. FY96-FY99 funds continue to procure equipment for turn-key facilities which support the upgrade of the DSCS and JRSC network to include sensor sites and DSCS hub stations. The specific equipment being procured includes: AN/GSC-49 and HT/MT modernization kits, fiber optic modems, patch panels, timing sources, and interfacility links.

Single Channel Transponder System (SCTS) provides Emergency Action Message (EAM) and Force Direction Message (FDM) dissemination capability to selected command centers and force elements for the control of nuclear forces. FY96 funds procured processors and converters for 12 SCTS systems.

5. **ANG/AFR**:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	-		.170		-		0
FY97	-		0		-		0
FY98	-		0		-		0
FY99	-		0		-		0

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	MILSATCOM	See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. MILSTAR - AF TERMINALS		VAR	N/A	17,908	VAR	N/A	20,237	VAR	N/A	3,056	VAR	N/A	3,849
CMD POST TERM.	A			(17,908)			(20,237)			(3,056)			(3,849)
TERMINAL ENH.					VAR	N/A	10,463						
INSTALL SPT				1,369			1,178			1,000			1,000
FACTORY REPAIR				2,163			1,475			1,000			1,000
DATA				462									
ICS				5,231									
SUPPORT ENGR				6,265			3,191			270			1,049
PROGRAM SPT				2,418			3,930			786			800

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	70	203	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
2. MILSTAR-TACTICAL TERMINALS		VAR	N/A	10,851	VAR	N/A	17,048	VAR	N/A	1,797	VAR	N/A	15,429
a. SCAMP TERMINALS	A			(10,851)			(10,162)			(1,306)			(1,105)
EQUIPMENT		55	195	10,736	99	78	7,697						
SUPPORT ENGR				57			2,150			931			455
PROGRAM SPT				58			315			375			650
b. SMART-T	B						(6,886)			(491)			(14,324)
EQUIPMENT					9	548	4,932	N/A	N/A		20	460	9,207
SUPPORT ENGR							1,639			116			4,662
PROGRAM SPT							315			375			455

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
3. UHF SATCOM		VAR	N/A	11,483	VAR	N/A	10,225	N/A	N/A	8,031	VAR	N/A	5,045
a. NETWORK CNTL SYS	A			(7,891)			(3,542)			(922)			(813)
CONTROL SEGMENT		4	184	736									
NCS RADIO SET EQ		40	115	4,597									
PROGRAM SPT				1,769			592			139			288
SITE SURVEY & INTEGRATION				789			386						
TERMINAL ENHANCE											VAR	N/A	525
ICS							2,564			783			
b. GROUND TERMINALS	A			(3,592)			(6,683)			(7,109)			(4,232)
EMUTS					200	21	4,186						
EMUT ANCILLARY EQ		VAR	N/A	3,089			1,300						
MBMMR								223	27	6,020			
PROGRAM SPT				503			1,197			1,089			567
TERMINAL ENHANCE											VAR	N/A	3,665

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	70	205	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. SHF TERMINALS		VAR	N/A	(7,466)	VAR	N/A	(4,532)	VAR	N/A	(7,469)	VAR	N/A	(3,570)
GMFSC EQUIPMENT	A	VAR	N/A	749	VAR	N/A	1,498	VAR	N/A	1,576	VAR	N/A	610
JRSC INTERCONNECT FACILITY EQUIPMENT	A	VAR	N/A	2,912	VAR	N/A	1,862	VAR	N/A	4,381	VAR	N/A	2,238
SCTS EQUIP	A	VAR	N/A	3,805									
PROGRAM SUPPORT							1,172			1,512			722
TOTAL				47,708			52,042			20,353			27,893

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. MILSTAR - AF TERMINALS										
COMMAND POST TERMINALS										
TERMINAL ENHANCEMENTS										
FY97	RAYTHEON [1] MARLBORO, MA	OPT/FFP [2]	AFMC/ESC	MULTI [3]	MULTI [3]	VAR	N/A [4]	YES	NO	
	ROCKWELL [1] RICHARDSON, TX	OPT/FFP [2]	AFMC/ESC	MULTI [3]	MULTI [3]	VAR	N/A [4]	YES	NO	
2. MILSTAR-TACTICAL TERMINALS										
A. SCAMP TERMINALS										
FY96	ARMY/ROCKWELL RICHARDSON, TX	C/FFP/MIPR	AFMC/ESC	FEB 96	MAR 98	55	195			
FY97	ARMY/ROCKWELL RICHARDSON, TX	OPT/FFP/MIPR	AFMC/ESC	FEB 97	MAR 98	99	78	YES	NO	
B. SMART-T										
FY97	ARMY/RAYTHEON MARLBORO MA	OPT/FFP/MIPR[5]	AFMC/ESC	FEB 97	OCT 98	9	548	YES	NO	
FY99	ARMY/RAYTHEON MARLBORO MA	OPT/FFP/MIPR [5]	AFMC/ESC	FEB 99	OCT 00	20	560	YES	NO	
3. UHF SATCOM										

D. REMARKS
DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
A. NETWORK CONTROL SYS										
FY96	VIASAT, INC. CARLSBAD, CA	OPT/FFP [6]	AFMC/ESC	APR 96	AUG 96	4 [7]	184 [8]			
FY96	VIASAT, INC. CARLSBAD, CA	OPT/FFP [6]	AFMC/ESC	APR 96	AUG 96	40	115 [9]			
FY99	VIASAT, INC. CARLSBAD, CA	OPT/FFP [6]	AFMC/ESC	NOV 98	JAN 99	VAR	N/A	NO	YES	JUL 97
B. GROUND TERMINALS										
FY96	ARMY/ MAGNAVOX FT WAYNE IN	C/FFP/MIPR	AFMC/ESC	MAR 97	JUN 97	VAR	N/A [4]			
FY97	ARMY/MAGNAVOX FT WAYNE IN	OPT/FFP/MIPR	AFMC/ESC	JAN 97	MAR 99	200	21			
FY98	ARMY/UNKNOWN	C/FFP/MIPR	AFMC/ESC	MAY 98	NOV 99	223	27	NO	YES	MAY 97
FY99	ARMY/UNKNOWN	OPT/FFP/MIPR	AFMC/ESC	NOV 98	JAN 99	VAR	N/A	NO	YES	JUL 97
4. SHF TERMINALS										
GMFSC EQUIPMENT										
FY96	ARMY/MULTIPLE	C/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]			
FY97	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	
FY98	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	
FY99	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	

D. REMARKS
DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
70	208	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
JRSC INTERCONNECT FACILITY EQUIP										
FY96	ARMY/MULTIPLE	C/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]			
FY97	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	
FY98	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	
FY99	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI [10]	MULTI [10]	VAR [11]	N/A [4]	YES	NO	
SCTS										
FY96	STANFORD TELECOM SUNNYVALE, CA	OPT/FFP [12]	AFMC/ESC	MULTI [13]	MULTI [13]	VAR [11]	N/A [4]			

FOOTNOTES

D. REMARKS
DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. Split award contract.
2. Option to FY93 basic contracts with Raytheon and Rockwell.
3. Multiple award and delivery dates to various options being exercised off the basic FY93 contracts with Rockwell and Raytheon for different equipment.
4. Unit costs vary because several different types of equipment or multiple types of equipment are being procured.
5. Air Force procurement is an option to Army FY96 contract
6. Option to Phase III Small Business Innovative Research (SBIR) contract with VIASAT, Carlsbad, CA.
7. Number of Systems
8. Funding procures initial DAMA controller system equipment consisting of radios and associated equipment to control 5 KHz and 25 KHz channels in each satellite footprint.
9. Funding provides additional channel capacity to bring the four network control sites up to full operating capability based on assigned missions.
10. Multiple award and delivery dates for options awarded to existing Army contracts.
11. Multiple locations.
12. Option to contract with FY93 Stanford Telecommunications contract.
13. Multiple award and delivery dates.

D. REMARKS
DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | | | MILSATCOM | | | | |

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | | | MILSATCOM | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	31.507	23.378	18.932	6.035	1.318	4.590	4.714	4.788

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for the ground equipment segment of Space systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY96-FY99 are on-going or planned for the following seven systems: Air Force Satellite Control Network (AFSCN), Defense Meteorological Satellite Program (DMSP), NAVSTAR Global Positioning System (GPS), Defense Support Program (DSP) 496L Spacetrack Network, and 474N Sea Launched Ballistic Missile (SLBM), Detection and Warning System. The amounts budgeted in FY96-99 for Miscellaneous Low Cost Modifications satisfy historically unforeseen modifications; no single effort is greater in cost than $.500M. Details follow by system: ($ in millions)

1. The **AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)** mission is to provide telemetry, tracking and commanding, mission data dissemination, and data processing support for operational and research, development, test and evaluation (RDT&E) systems for the DOD and other high priority users. The AFSCN consists of dedicated systems, a Common User Element (CUE) and supporting resources from external agencies. The dedicated systems include Defense Meteorological Satellite Program (DMSP), Global Positioning System (GPS), and Military Satellite Communications (MILSATCOM). The CUE consists of two control nodes and a worldwide network of remote ground facilities. The supporting resources include the AFSCN communications system, National Aeronautics and Space Administration interface equipment, and user resources at various command and control centers.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
S408930	HTS MICROWAVE REPLACEMENT			0.716		
MISC	MISCELLANEOUS LOW COST MODS	0.300	0.022			0.199
		0.300	0.022	0.716		0.199

2. The **DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP)** joint service mission is to provide an enduring and survivable capability through all levels of conflict consistent with the survivability of the supported forces to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic and solar-geophysical data to support worldwide DOD operations and high-priority programs. Timely, high quality data is supplied to Air Force Global Weather Central, the Fleet Numerical Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The three major components involved in DMSP operations are the space segment, command, control, and communications (C3) segment, and user segment. The C3 command centers are Fairchild Satellite Operations Center (FSOC), Spokane, WA and multi-purpose Satellite Operations Center (MPSOC), Offutt, AFB NE.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

DMSP MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
39606B	5D-3/10 KBS COMMANDING MOD	9.234	0.200			
T7149	VANDENBERG ENHANCEMENT MOD		4.000			
T7191	DATA INGEST PROCESSING (DIPS)			2.800		0.200
MISC	MISCELLANEOUS LOW COST MODS	2.704		0.640		0.198
	TOTAL	11.938	4.200	3.440		0.398

3. The **NAVSTAR GLOBAL POSITIONING SYSTEM (GPS)** is a space-based radio navigation, time distribution, and nuclear detonation (NUDET) detection system (NDS). The GPS mission is to provide highly accurate positioning, velocity, timing, and NUDET information to properly equipped air, land, sea, and space-based users.

a. The NAVSTAR GPS/NDS system contains four elements: The Space Segment (SS), the Operational Control Segment (OCS), the Navigation User Segment (NUS), and the NUDET Detection Segment (NDS). The OCS consists of a number of monitor stations (MS) and ground antennas (GA) located around the world, and one Pre-launch Compatibility Station (PCS). The monitor stations use a GPS receiver to passively track all satellites in view and thus accumulate ranging data from the satellite signals. The information from the monitor stations is then processed at the Master Control Station (MCS) and is used to update the navigation message of each satellite. This updated information is transmitted to the space vehicles (SV) via the ground antennae using an S-Band data signal. The ground antennas are also used for transmitting and receiving satellite telemetry and control information. The PCS is used to perform pre-launch testing on Block II SV.

b. The GPS NDS consists of user equipment (UE) sets, test instrumentation and peculiar support equipment (PSE). The UE set, utilizing the data transmitted by the satellites, will derive navigation and time information for use in the host vehicle.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

GPS MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
30724B	STATION COMPUTER SYS-SERIES 1		6.601	9.483	3.797	
30730B	CAPE MONITOR STATION UPGRADE	2.100				
S605133	WEAPON SYSTEM SUPPORT				1.500	1.200
T7215	MONITORING STATION TIMING				1.300	2.000
T7245	AUTO ANTENNA POSITIONING SYS				0.500	0.600
MISC	MISCELLANEOUS LOW COST MOD		0.100	0.200	0.151	0.380
	TOTAL	2.100	6.701	9.683	7.248	4.180

4. The DEFENSE SUPPORT PROGRAM (DSP) system provides a space-based surveillance system to detect and report missile and space launches and nuclear detonations in near real time during pre-, trans-, and post-attack periods. The DSP system consists of a constellation of satellites in geostationary orbits, fixed and mobile ground processing stations, one multi-purpose facility, and a ground communications network (GCN). DSP's primary mission is to provide tactical warning and limited attack assessment of a ballistic missile attack. DSP also detects and reports nuclear detonation events and provides information for theater warning and exploitation. Modifications in this program apply only to the ground stations.

DSP MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
T7155	MGT/JRSCT FIBER OPTIC-INTERFACE		0.920	0.080		
T7159	AN/MSQ-118 & 120 TRACTOR REPLACEMENT		1.526	0.120		
MISC	MISCELLANEOUS LOW COST MOD		0.081	0.250		
	TOTAL		2.527	0.450		

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

5. The 496L SPACETRACK NETWORK is comprised of the AN/FSQ-114 (Ground-based Electro-Optical Deep Space Surveillance System (GEODSS)) Optical Sensor System, the AN/FPS-85 Phased Array Radar (Eglin), the AN/FPS-17 and AN/FPS-79 Mechanical Detection and Tracking Radars (Pirinclik). The SPACETRACK systems provide data on near-earth and deep space objects to constantly update the Cheyenne Mountain Complex satellite catalog which performs early warning and tracking of potential threats to North America, and assessment and characterization of potential atmospheric, ballistic missile and space attacks.

a. AN/FPS-85 EGLIN RADAR: The AN/FPS-85 radar, located at Eglin AFB FL, is a computer controlled, phased-array radar that was deployed in 1967 for detection and tracking of space objects. Within its coverage area, this radar is tasked to provide data on known and unknown space objects to the Space Control Center (SCC) at the Cheyenne Mountain Complex at Colorado Springs, CO and the alternate SCC at Dahlgren, VA.

b. AN/FSQ-114 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM: GEODSS is a segment of the SPACETRACK Network which provides metric track data, deep-space Space Object Identification (SOI), and visible light photometry data to the Cheyenne Mountain Complex (CMC). More specifically, the primary mission of GEODSS is to provide the Space Surveillance Center (SSC) with observational (metric) data on deep-space satellites and optical characteristics information as tasked by the Combined Space Intelligence Center. GEODSS also supports command mission responsibilities for cataloging and maintenance of deep-space satellite payloads and debris, New Foreign Launch (NFL) orbit determination and mission assessment, as well as collision avoidance taskings.

SPACETRACK MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
19303B	EGLIN TRANSMITTER MODULE UPGR	9.760	10.841	0.300	6.023	0.740
39709B	GEODSS	13.141	5.622	3.600		
39710B	AN/FPS-85 COHERENT RX SYS MOD	3.000	0.491	4.200	0.100	
	MOD DECK REPLACEMENT		0.698			
MISC	MISCELLANEOUS LOW COST MODS		0.025	0.989	0.154	0.195
	TOTAL	25.901	17.677	9.089	6.277	0.935

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

6. The 474N Sea Launched Ballistic Missile (SLBM) Detection and Warning System consists of the AN/FSQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and the AN/FPS-123 Pave Paws 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.

a. AN/FPS-123 Pave Paws is a ground-based phased array radar system consisting of four dual-faced, solid state phased array surveillance and tracking radar systems. The first two sensors were completed at Cape Cod AS, MA (Site 1) and Beale AFB, CA (Site II) in the late 1970s. Pave Paws was expanded in the late 1980s to include sensors at Robins AFB, GA (Site III) and Eldorado AS, TX (Site IV). The primary mission of Pave Paws is to furnish detection and attack assessment of SLBMs and ICBMs penetrating their coverage area. A secondary mission is supporting the US Space Command (USSPACECOM) Space Surveillance Network (SSN). The AN/FPS-123 supplies space surveillance, tracking and Space Object Identification (SOI) data.

b. AN/FSQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS): The AN/FSQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier AFB, ND. PARCS is a single faced, long range phased array radar. PARCS's primary mission is to provide tactical warning and assessment of SLBM and ICBM attack against North America. PARCS is a one-of-a-kind system originally developed in the early 1970s and has operated continuously without significant upgrade since 1974.

SLBM MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
39707B	PARCS PERIPHERAL REPLACEMENT	4.725	0.305			
P7258	DISPERSIVE DELAY LINES				1.800	
P7260	DATA TRANS CONTROLLER				3.500	
MISC	MISCELLANEOUS LOW COST MODS		0.075		0.107	0.323
	TOTAL	4.725	0.380		5.407	0.323

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FEBRUARY 1997

EXHIBIT P-3N

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

System/Modification: Space	Mod #	Title	PY	FY96	FY97	FY98	FY99	FY00	
Air Force Satellite Control Network (AFSCN)	S408930	HTS Microwave Link Replacement			0.3				
		AFSCN TOTAL			**0.3**				
Defense Meteorological Sat Pgrm (DMSP)	39606B	5D-3/10 KBS Commanding Mod		0.2					
	T-7149	Vandenberg Tracking Station Enhancement		0.2					
	T-7191	Data Ingest Processing (DIPS)					0.2		
		DMSP TOTAL		**0.4**			**0.2**		
Navstar Global Positioning System (GPS)	30724B	Station Computer System (Series 1) Replacement			*	0.3			* Less Than $50K
	30730B	Cape Monitor Station		0.1					
	S605133	Weapon System Support				0.1	0.1		
	7215	Monitor Station Timing Enhancement					0.4		
	7245	Automated Antenna Positioner Monitoring System					0.2		
		GPS TOTAL		**0.1**	*	**0.4**	**0.7**		* Less Than $50K
Defense Support Program (DSP)	T-7155	MGT Jam Secure Comm Terminal Fiber Optic Interface		*	*				* Less Than $50K
		DSP TOTAL		*	*				* Less Than $50K
Spacetrack	19303B	Eglin Transmitter Module Upgrade		0.1	0.3	0.7	0.7		
	39709B	AN/FSQ-114 GEODSS Upgrade			0.4				
	39710B	AN/FPS-85 Coherent Receiver	0.5			0.1			
		SPACETRACK TOTAL	0.5	0.1	0.7	0.8	0.7		
SLBM Radar Warning System	39707B	PARCS Peripheral Replacement		0.3					
	P7258	Dispersive Delay Lines				0.1			
	P7260	Data Trans Lines				0.4			
		SLBM RADAR WARNING SYSTEM TOTAL		0.3		0.5			
		SPACE MODIFICATIONS GRAND TOTAL	0.5	0.9*	1.0*	1.7	1.6		* Less Than $50K

Modification Title and No: Data Ingest Processing and Storage (DIPS) T7191

Description/Justification: The 50th Weather Squadron (50 WS) requires DMSP 5D-3 sensor data that is less than 120 minutes old in order to support its extensive list of priority customers (AFSPC, USSPACECOM, NORAD, AFC4A, ACC, AMC, NASA, and others). Under the current configuration, the data received by AFSPC is up to 146 minutes old. The upgrade will provide the necessary equipment to the 50 WS facility at Falcon AFB, CO . to enable the receipt, processing, and storage of DMSP 5D-3 sensor data in less than 120 minutes. FY97 funding will procure the hardware, software, and documentation necessary for implementation. FY99 funding will be used for the upgrade installation. Without this upgrade, up to 26% of the satellite data will be unusable because of its late availability. The Earth's polar Aurora and the near-earth space environment change at a rapid pace forcing this requirement for fast reporting of the latest available data. Without the rapid availability of data, 50 WS will not be able to provide satisfactory environmental warning and advisories to its customers.

Development Status/Major Development Milestones: CCB Jun 96; PDR Mar 97; CDR May 97; FCA/PCA Feb 99

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
Procurement														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment					1	1.1							1	1.1
Equipment Nonrecurring						0.3								0.3
Engineering Change Orders						0.3								0.3
Data						0.4								0.4
Training Equipment														
Support Equipment						0.1								0.1
Other						0.6								0.6
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY95) Eqpt (Kits)														
(FY96) Eqpt (Kits)														
(FY97) Eqpt (1 Kits)									1	0.2			1	0.2
(FY98) Eqpt (Kits)														
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY (TC) Eqpt (0 Kits)														
Total Installation Cost									1	0.2			1	0.2
Total Procurement Cost					1	2.8			1	0.2			1	3.0

Method of Implementation: Contractor — Administrative Lead Time: 12 Months — Production Lead Time: 18 Months

Contract Dates:	FY96:	FY97: May 97	FY98:	FY99:
Delivery Date:	FY96:	FY97: Oct 98	FY98:	FY99:

Installation Schedule:	PY	FY98				FY99				FY00				
	1	2	3	4	1	2	3	4	1	2	3	4	TOTAL
Input					1								1
Output					1								1

Modification Title and No. Station Computer System (Series 1) Replacement, 30724B

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: The Station Computer System provides data processing of upload and download signals. These systems currently have a mean-time-between-failure (MTBF) of 243 hours and have had no manufacturing support base since 1995. Failures of the Line Replaceable Units (LRU) have been replaced by refurbished used equipment or repair by individual contract or emergency depot level maintenance. These are all costly stop-gap measures that allow continued supportability until this modification is installed. This modification will replace these units with state-of-the-art units and provide for integration of commercial-off-the-shelf (COTS) software into current site and network software systems. Without this modification, this equipment will continue to progress into obsolescence and become increasingly difficult and costly to support. Failure of these units causes site failure which denies adequate upload and health/status information of the GPS satellites rendering the satellite signal increasingly unreliable.

Development Status/Major Development Milestones: CCB Mar 95, Operational validation at one site Sep 97, PDR Jul 96, CDR Nov 96.

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
PROCUREMENT														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment			1	0.6	6	3.6	2	1.2					9	5.4
Equipment Nonrecurring				0.3		0.6								0.9
Engineering Change Orders			*		*									
Data				0.1		0.9		0.5						1.5
Training Equipment														
Support Equipment				0.6		0.6								1.2
Other (Software)		4.2		5.0		3.7		1.9						14.8
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY96) Eqpt (1Kits)					1 *								1	* Less Than $50K
(FY97) Eqpt (6 Kits)							6	0.2					6	0.2
(FY98) Eqpt (2 Kits)							2	0.1					2	0.1
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY (02) Eqpt (Kits)														
Total Installation Cost					1 *		8	0.3					9	0.3
Total Procurement Cost		4.2	1	6.6	6	9.5	2	3.8					9	24.1

Method of Implementation: Contractor — Administrative Lead Time: 3 Months — Production Lead Time: 9 Months

Contract Dates:	FY96: Apr 96	FY97: Feb 97	FY98: Nov 97	FY99:
Delivery Date:	FY96: Jan 97	FY97: Nov 97	FY98: Aug 98	FY99:

Installation Schedule:	PY	FY96			FY97				FY98				FY99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input						1			1	3	2	2					9
Output						1			1	3	2	2					9

Modification Title and No: Weapon System Support (WSS), S605133

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: This modification upgrades the Weapon System Support System environment to be compatible with the new architecture of operational system. This modification is required to maintain the existing WSS mission as the support environment for the Operational Control Segment (OCS) and includes support for the GPS High Fidelity System Simulator. This upgrade integrates the new architecture capabilities with the existing legacy systems capabilities in FY98 and provides for disposal of obsolete systems at the end of FY99. This effort will also connect Peterson AFB support system with the Falcon AFB in a unified approach. The effort is phased concurrent with the GPS High Fidelity System Simulator effort to provide initial capability in FY98 and full capability in FY99.

Development Status/Major Development Milestones: AFSPC CCB Mar 96, Simulator Support NLT Jul 98, Maintenance Support NLT Jul 99.

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
PROCUREMENT:														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment							1	0.6	1	0.6			2	1.2
Equipment Nonrecurring														
Engineering Change Orders														
Data								0.2						0.2
Training Equipment														
Support Equipment								0.1		0.1				0.2
Other														
Interim Contractor Support								0.5		0.4				0.9
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY96) Eqpt (Kits)														
(FY97) Eqpt (Kits)														
(FY98) Eqpt (1 Kits)							1	0.1					1	0.1
(FY99) Eqpt (1 Kits)									1	0.1			1	0.1
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY02) Eqpt (Kits)														
Total Installation Cost	0						1	0.1	1	0.1			2	0.2
Total Procurement Cost	0						1	1.5	1	1.2			2	2.7

Method of Implementation: Contractor — Administrative Lead Time: 3 Months — Production Lead Time: 3 Months

Contract Dates:	FY96:	FY97:	FY98: Dec 97	FY99: Dec 98	FY00:
Delivery Date:	FY96:	FY97:	FY98: Mar 98	FY99: Mar 99	FY00:

Installation Schedule:	PY	FY98				FY99				FY00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
Input			1				1							2
Output			1				1							2

Modification Title and No: Monitor Station Timing Subsystem Enhancement, Mod # 7215

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: The Monitor Station Timing Subsystem Enhancement (MSTSE) will upgrade the timing subsystem at the GPS Monitor Stations by installing an independent timing system synchronized with the Master Control Station (MCS) and the Universal Time Coordinated (UTC) at the US Naval Observatory. This enhancement will provide more accurate frequency and timing measurements to the Kalman Filter process which will recognize the magnitude and source of errors allowing the MCS software to produce corrections providing a more accurate GPS signal.

Development Status/Major Development Milestones: AFSPC CCB: Jun 97

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
PROCUREMENT:														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment							1	0.2	4	0.6			5	0.8
Equipment Nonrecurring								*						* Less Than 50K
Engineering Change Orders														
Data								0.2		0.5				0.7
Training Equipment														
Support Equipment								0.1		0.2				0.3
Other								0.8		0.3				1.1
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY96) Eqpt (Kits)														
(FY97) Eqpt (Kits)														
(FY98) Eqpt (1 Kits)									1	0.1			1	0.1
(FY99) Eqpt (4 Kits)									4	0.3			4	0.3
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY02) Eqpt (Kits)														
Total Installation Cost									5	0.4			5	0.4
Total Procurement Cost								1.3	5	2.0			5	3.3

Method of Implementation: Contractor — Administrative Lead Time: 3 Months — Production Lead Time: 9 Months

Contract Dates:	FY96:	FY97:	FY98: Jan 98	FY99: Nov 98	FY00:
Delivery Date:	FY96:	FY97:	FY98: Oct 98	FY99: Aug 99	FY00:

Installation Schedule:	PY	FY98				FY99				FY00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
Input						1			4					5
Output						1			4					5

Modification Title and No: GPS Automated Antenna Positioner Monitoring System, Mod # 7245

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: The GPS Automated Positioner Monitor Station Timing (AAPMS) consists of a data collection and logging module attached to the Ground Antenna pedestal unit. The proposed system would consist of a single board computer system and support circuitry within a module permanently affixed inside the Ground Antenna system pedestal area. Data collection, system control and test software will reside on the control computer. This system will help diagnose problems automatically within the Ground Antenna system as well as achieving and using trending data to predict potential performance problems.

Development Status/Major Development Milestones: AFSPC CCB: Jun 97

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E:															
PROCUREMENT:															
Kit Quantity															
Installation Kits															
Installation Kit Nonrecurring															
Equipment							1	0.1	4	0.4			5	0.5	
Equipment Nonrecurring															
Engineering Change Orders															
Data								0.2						0.2	
Training Equipment															
Support Equipment															
Other								0.2							
Interim Contractor Support															
Installation of Hardware															
(PY) Eqpt (Kits)															
(FY96) Eqpt (Kits)															
(FY97) Eqpt (Kits)															
(FY98) Eqpt (1 Kits)									1	°			1	° Less Than 50K	
(FY99) Eqpt (4 Kits)									4	0.2			4	0.2	
(FY00) Eqpt (Kits)															
(FY01) Eqpt (Kits)															
(FY02) Eqpt (Kits)															
Total Installation Cost									5	0.2			5	0.2	
Total Procurement Cost								0.5	4	0.6			5	1.1	

Method of Implementation: Contractor — Administrative Lead Time: 3 Months — Production Lead Time: 9 Months

Contract Dates: FY96: FY97: FY98: Jan 98 FY99: Nov 98 FY00:

Delivery Date: FY96: FY97: FY98: Oct 98 FY99: Aug 99 FY00:

Installation Schedule:	PY	FY98				FY99				FY00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	
Input						1			4					5
Output						1			4					5

Modification Title and No: Eglin Transmitter Module Upgrade , 19303B

Models of Systems Affected: Spacetrack - AN/FPS-85

Description/Justification: The transmitter upgrade replaces the insupportable 1960's vintage vacuum tube components within the transmitters with commercially available and supportable components. Failure to complete this effort will prevent the site from operating because of diminishing sources for critical components within the transmitters. The Eglin AFB, FL mission is vital to AFSPC as it presently is responsible for updating information on the majority of Space Objects Catalog (SOC) items by providing current track information on known objects and detecting unknown objects within its coverage area of surveillance. Without the Eglin updates, the SOC will become inaccurate preventing proper mission planning for all space launches because collision avoidance cannot be properly calculated. Failure to maintain the SOC will put space vehicles, such as the Space Shuttle and military satellites, in jeopardy of damage or destruction through collision with space debris.

Development Status/Major Development Milestones: Milestone IV, CCB: Oct 95, 1st Article Test: Jun 96; Field Test: Sep 96; FOC Sep 99

Financial Plan: ($ In Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
Procurement														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment	4	6.0	7	10.5			5	5.1					16	21.6
Equipment Nonrecurring														
Engineering Change Orders														
Data		0.3												0.3
Training Equipment														
Support Equipment		0.2												0.2
Other		3.3		0.2				0.2						3.7
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (4 Kits)			1	0.1	2	0.3	1	0.1					4	0.5
(FY96) Eqpt (7 Kits)							7	0.6					9	0.9
(FY97) Eqpt (Kits)													3	0.4
(FY98) Eqpt (5 Kits)									5	0.7				
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
Total Installation Cost			1	0.1	2	0.3	8	0.7	5	0.7			16	1.8
Total Procurement Cost	4	9.8	7	10.8		0.3	5	6.0		0.7			16	27.6

Method of Implementation: Contractor — Administrative Lead Time: 6 Months — Production Lead Time: 7 Months

Contract Dates:	FY95: Mar 96	FY96: Mar 96	FY97:	FY98: Oct 97
Delivery Date:	FY95: Sep 96	FY96: Feb 98	FY97:	FY98: Dec 98

Installation Schedule:	PY	FY 96				FY 97				FY 98				FY 99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input					1				2	1	3	2	2	2	2	1		16
Output					1				2	1	3	2	2	2	2	1		16

Modification Title and No: AN/FPS-85 Coherent Receiver System Modernization, 39710B

Models of Systems Affected: AN/ FPS-85 Radar

Description/Justification: The coherent receiver modification will replace the existing receiver and pulse compression chamber with state-of-the-art equipment. The current system is the source of daily failures and is difficult to maintain. The new equipment will require little or no calibration and will be more reliable, supportable, and easier to maintain. This mod will increase the site's operational capability by decreasing the amount of maintenance time required to keep the coherent receiver stable. The Eglin mission is vital to AFSPC as it presently is responsible for updating information objects by providing current track information on the majority of the Space Object Catalog (SOC) known objects and detecting unknown objects within its area of surveillance. Without Eglin updates, the SOC will become inaccurate, preventing proper mission planning for all space launches because collision evidence cannot be properly calculated. Current objects in space which Eglin is responsible for include maneuverable satellites gathering military data which can compromise security of our military defenses if the object were to maneuver when Eglin is down for maintenance.

Development Status/Major Development Milestones: Revised Acq Strat: Apr 96, CCB: Jun 96, PDR: Nov 96, CDR: Mar 97, IOC Mar 98

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
Procurement														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment	1	1.0			1	0.5							2	1.5
Equipment Nonrecurring				0.5										0.5
Engineering Change Orders														
Data						0.3								0.3
Training Equipment														
Support Equipment														
Other		1.5				3.4								4.9
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (1 Kits)	1	0.5											1	0.5
(FY96) Eqpt (Kits)														
(FY97) Eqpt (1 Kits)							1	0.1					1	0.1
(FY98) Eqpt (Kits)														
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY02) Eqpt (Kits)														
Total Installation Cost	1	0.5					1	0.1					2	0.6
Total Procurement Cost	1	3.0		0.5		4.2	1	0.1					2	7.8

Method of Implementation: Contractor — Administrative Lead Time: 2 Months — Production Lead Time: 12 Months

Contract D PY: Apr 95 — FY96: Dec 96 — FY97: Dec 96 — FY98:

Delivery D PY: Dec 97 — FY96: Dec 97 — FY97: Dec 97 — FY98:

Installation Schedule:	PY	FY96				FY97				FY98				FY99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input	1								1								2
Output	1								1								2

Modification Title and No: PARCS Dispersive Delay Line (DDL) P-7258

Models of Systems Affected: PARCS, AN/FPQ-16

Description/Justification: The PARCS Dispersive Delay Line (DDL) modification will replace signal processing elements in the PARCS radar, which are no longer supportable with modern devices that are stable, reliable, and supportable. The DDLs are essential to radar operation and only one serviceable spare is available. Attempts at DDL repair has not yielded long term success. When a DDL of the current design is replaced, the radar signal processor must be realigned, a process that requires 12 or more hours to complete. PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (TW/AA) mission. Failure of a DDL would result in a long period of time when the radar would be unable to detect and track threats to the North American continent in support of USSPC/NORAD CINC. PARCS is a single faced, long range phased array radar. It is a one of a kind system developed in the early 1970's and has operated continuously without significant upgrade since 1974.

Development Status/Major Development Milestones: CCB: May 97, Contract AWD: Jan98, PDR/CDR: Apr 98, OT&E: Nov 98, IOC/FOC: Feb 98

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
PROCUREMENT:														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment							1	0.4					1	0.4
Equipment Nonrecurring														
Engineering Change Orders								0.1						0.1
Data								0.3						0.3
Training Equipment														
Support Equipment														
Other								1.0						1.0
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY96) Eqpt (Kits)														
(FY97) Eqpt (Kits)														
(FY98) Eqpt (1 Kits)							1	0.1					1	0.1
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY02) Eqpt (Kits)														
Total Installation Cost							1	0.1					1	0.1
Total Procurement Cost							2	1.8					2	1.8

Method of Implementation: Contractor — Administrative Lead Time: 4 Months — Production Lead Time: 14 Months

Contract Dates:	FY96:	FY97:	FY98: Jan 98	FY99:	FY00:
Delivery Date:	FY96:	FY97:	FY98: Feb 99	FY99:	FY00:

Installation Schedule:	PY	FY98				FY99				FY00				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	
Input				1										1
Output						1								1

Modification Title and No: Perimeter Acquisition Radar Attack Characterization System (PARCS) Data Transmission Controller (DTC) Upgrade P-7260

Models of Systems Affected: PARCS, AN/FPQ-16

Description/Justification: The PARCS Data Transmission Controller Upgrade is a Reliability and Maintainability effort to replace obsolete and insupportable equipment in the communications link with the main mission computer and external users. The DTC controls all communications of Missile Warning message traffic to Cheyenne Mountain and Spacetrack message traffic to Dahlgren and Cheyenne Mountain Complex (CMC). PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (TW/AA) mission. Failure to implement this modification would endanger the site's ability to acknowledge threats to the North American continent in support of USSPACECOM/NORAD CINC and to notify the National Command Authorities for appropriate tactical warning /attack assessment and response. The AN/FPQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystem which comprise the PARCS system at Cavalier ND. PARCS is a single faced, long range phased array radar. It is a one of a kind system developed in the early 1970's and has operated continuously without significant upgrade since 1974.

Development Status/Major Development Milestones: Milestone IV, CCB: May 97, Task Award: Jan 98, PDR/CDR: Mar 98, OT&E: Oct 98, IOC: Jan 98

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:														
PROCUREMENT:														
Kit Quantity														
Installation Kits														
Installation Kit Nonrecurring														
Equipment							1	0.8					1	0.8
Equipment Nonrecurring														
Engineering Change Orders								0.2						0.2
Data								0.8						0.8
Training Equipment														
Support Equipment														
Other								1.4						1.4
Interim Contractor Support														
Installation of Hardware														
(PY) Eqpt (Kits)														
(FY96) Eqpt (Kits)														
(FY97) Eqpt (1 Kits)														
(FY98) Eqpt (1 Kits)							1	0.4					1	0.4
(FY99) Eqpt (Kits)														
(FY00) Eqpt (Kits)														
(FY01) Eqpt (Kits)														
(FY02) Eqpt (Kits)														
Total Installation Cost							1	0.4					1	0.4
Total Procurement Cost							1	3.5					1	3.5

Method of Implementation: Contractor — Administrative Lead Time: 5 Months — Production Lead Time: 9 Months

Contract Dates:	FY96:	FY97:	FY98:Jan 98	FY99: FY00:
Delivery Date:	FY96:	FY97:	FY98: Sep 98	FY99: FY00:

Installation PY	FY96				FY97				FY98				FY99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input												1					1
Output														1			1

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	29.054	63.982	16.968	31.922	31.707	39.764	43.795	43.237

The Tactical Communications-Electronics (C-E) Equipment procurement line 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 our Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment that will support US flying operations worldwide.

1. **PACER SPEAK (AN/GRC-206):** The PACER SPEAK is an equipment upgrade program designed around a common transmitter and receiver (RT-1319). The PACER SPEAK is a pallet of radios mounted on a HMMWV vehicle which is used primarily by the ACC Theater Air Control Parties (TACPs) and AFSOC Combat Control Teams (CCTs). Both types of units deploy with the Army's maneuver units and provide the command and control link for Close Air Support (CAS), airlift, and reconnaissance. The current PACER SPEAK system configuration operates in several frequency bands including: High Frequency (HF), Very High Frequency/ Amplitude Modulation (VHF/AM), and Ultra High Frequency/Amplitude Modulation (UHF/AM) utilizing the HAVE QUICK Waveform. The Version 5 (V(5)) upgrade to PACER SPEAK started in FY94, with a current projected requirement for 893 systems. The V(5) upgrade replaces the single channel VHF radio with the SINCGARS VHF Antijam Frequency Hopping radio currently used by Army maneuver units, thus assuring critical Air Force interoperability with these units, and reducing the probability of fratricide. 270 V(5) systems were procured in FY94-95. The following V(5) quantities are planned for procurement: (159) FY96, (130) FY97, (41) FY98, and (46) FY99.

2. **THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM:** The TDC program provides telephone and computer networks, and message service to deploying Air Force and joint units. It was started in FY92 to replace the existing Tri-service Tactical Communications (TRI-TAC) system. TRI-TAC showed its age during Desert Storm (as documented in the "Hot Wash" reports), lacking sufficient bandwidth to support current communications technology such as Local Area Networks (LANs), video teleconferencing and timely transmission of Air Tasking Order (ATO) and intelligence imagery. In addition, TRI-TAC consumes a large amount of critical airlift resources due to its size and packaging. TDC corrects these deficiencies providing a large increase in throughput capacity and better bandwidth efficiency, as well as a 20-35% reduction in airlift requirements. TDC will procure 90's technology Commercial-Off-the-Shelf (COTS) equipment. As such, it is fully compliant with existing and emerging commercial interoperability standards in accordance with Office of Secretary of Defense (OSD) interoperability guidelines.

TDC will support a wide range of mission areas and users including: Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), Air Force Special Operation Command (AFSOC), Air National Guard (ANG), and the Air Force Reserves (AFR). For both AMC and AFSOC, TDC provides new combat capability not previously available. TDC is required to support the Air Expeditionary Force. In addition,

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

TDC is capable of supporting joint operations through its link into the joint tactical communications architecture. TDC is also critical to the successful implementation of the Global Broadcast Service--TDC computer servers will be used to support most GBS ground terminals. TDC is composed of two components, the Lightweight Multiband Satellite Terminal (LMST) and the Integrated Communications Access Packages (ICAP). Together these two systems provide the communications infrastructure in deployed bare base environments. TDC connects all users, both at the base level and back to the national command authorities using various C4 and intelligence (C4I) applications and the Tactical Internet. TDC will equip Wing Initial Communication Packages (WICPs), Air Operations Centers (AOC), Air Support Operations Centers (ASOCs) and Control Reporting Centers/Elements (CRCs/CREs). TDC is modular, and scaleable--capable of supporting the war effort from day one to the buildup of a sustaining base.

TDC is currently funded at 48% of requirement, which will support 80% of one Major Regional Conflict (MRC).

a. **LIGHTWEIGHT MULTIBAND AND SATELLITE TERMINALS (LMSTs):** LMSTs will augment and in most cases replace the existing X-Band tactical satellite terminals. LMSTs provide a significant increase in capability, capable of leveraging not only the military X-band satellite channels, but also the C- and Ku-bands available on commercial communications satellites. This alleviates many operational problems, since the military X-band channels are nearing capacity. LMSTs are a critical link providing the two-way communications connectivity between the deployed base and command authorities at other locations. The LMST significantly reduces airlift, requiring just 25% of a C-130 load versus a full C-130 load to move the terminal it replaces. Total requirements for LMSTs are 79 systems for all MAJCOMs. Six LMSTs were procured in FY96; FY97/98/99 funds procure 6, 3, and 7, respectively.

b. **INTEGRATED COMMUNICATIONS ACCESS PACKAGES (ICAPs):** ICAP provides modular and scaleable packages of routers, switches, multiplexers and network management systems, forming the communications backbone for a deployed base. Users will plug-in their computer, telephones, and faxes into the backbone the ICAP supplies. ICAP provides significant advantages over TRI-TAC in the areas of bandwidth efficiency, scalability, and airlift:

- ICAP employs "smart multiplexers" allowing sequencing of several messages over a single line, versus the multiple dedicated lines used in TRI-TAC.
- ICAP packages come in seven configuration sizes, allowing greater flexibility to meet different contingency operations. For example, the WICP is the smallest sized unit (1 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," scaling up to a full size AOC package. The TRI-TAC system lacks this flexibility, requiring a large portion of the system (6-7 C-130 loads) to be in place before the system becomes operational.

Total requirements for ICAPs are 139 systems for all MAJCOMs. FY96/97/98/99 funds procure 2, 19, 3, and 6, respectively.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. **CIVIL ENGINEERING COMMAND AND CONTROL SYSTEM (CECCS):** The CECCS provides base support group command and recovery elements (Civil Engineers, Fire Protection, Disaster Preparedness, and Ordnance Disposal) a capability to respond to emergencies and manage base recovery efforts. This capability requires a reliable, tactical, deployable, and programmable media to conduct operations at designated locations supporting two near-simultaneous major regional conflict scenarios and military operations other than war addressed in the Defense Planning Guidance. This system will consist of the following hardware items packaged in Prime Base Emergency Engineer Force (BEEF) unit type codes (UTCs): Scope Shield radios, battery chargers, battery reconditioners, vehicle adapters, base stations, programming units, tactical repeaters, and cloning cables. FY96 funds procured 111 radios, 91 vehicle adapters, 50 tactical repeaters, and 5 base stations.

4. **ANG/AFR**: The following quantities of PACER SPEAK terminals will be procured:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	23		3.487		0		0
FY97	23		1.500		0		0
FY98	0		0		0		0
FY99	0		0		0		0

The following quantities of TDC will be procured; quantities of LMST and ICAP units are "VAR" since ICAP packages come in seven configuations:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	0		0		0		0
FY97	VAR		25.000		0		0
FY98	0		0		0		0
FY99	0		0		0		0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TACTICAL C-E EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. PACER SPEAK		VAR	N/A	(8,211)	130	(64.9)	(8,437)	41	(88.4)	(3,625)	46	(83.6)	(3,844)
a. SINCGARS/ANDVT (V5) UPGRADE	A	159	45.4	7,211	130	64.9	8,437	41	88.4	3,625	46	83.6	3,844
b. DEPOT TEST SETS	A	VAR	N/A	1,000									
2. TDC PROGRAM		VAR	N/A	(15,972)	VAR	N/A	(55,545)	VAR	N/A	(13,343)	VAR	N/A	(28,078)
a. LMST	A	6	1,095	6,567	6	1,000	6,000	3	1,000	3,000	7	1,000	7,000
b. ICAP	A	2	VAR	9,405	19	VAR	49,545	3	VAR	10,343	6	VAR	21,078
3. CECCS	A	VAR	VAR	4,871									
TOTAL				29,054			63,982			16,968			31,922

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	72	231	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TACTICAL C-E EQUIPMENT

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. PACER SPEAK (AN/GRC-206)										
A. SINCGARS/ANDVT (V5) UPGRADE										
FY96	HUGHES FT WAYNE, IN	OPT/FFP [1]	AFMC/ESC	FEB 96	APR 97	159	45.4			
FY97	HUGHES FT WAYNE, IN	OPT/FFP [1]	AFMC/ESC	MAR 97	DEC 97	130	64.9	YES	NO	
FY98	HUGHES FT WAYNE, IN	SS/FFP	AFMC/ESC	JAN 98	JAN 99	41 [4]	88.4	YES	NO	
FY99	HUGHES FT WAYNE, IN	SS/FFP	AFMC/ESC	JAN 99	JAN 00	46 [4]	83.6	YES	NO	
B. DEPOT TEST SETS										
FY96	HUGHES FT WAYNE, IN	OPT/FFP [1]	AFMC/ESC	NOV 96	MAY 97	VAR	N/A [2]			
2. TDC PROGRAM										
A. LMST										
FY96	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR[6]	AFMC/ESC	JAN 97	SEP 97	6	1,095			

D. REMARKS

1. OPTION TO FY95 SINCGARS/ANDVT INTEGRATION CONTRACT WITH MAGNAVOX.
2. UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF PACKAGES DEPENDS ON APPLICATION.
3. OPTION TO PRIOR YEAR AIR BASE GROUND DEFENSE PRODUCTION CONTRACT.
4. QUANTITIES MAY HAVE TO BE ADJUSTED BASED UPON NEGOTIATED PRICE AT CONTRACT AWARD.
5. NON-RECURRING COSTS ARE CPAF; RECURRING COSTS ARE FFP.
6. OPTION TO FY95 C/FFP CONTRACT WITH HARRIS CORP, MELBOURNE, FL.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
72	232	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TACTICAL C-E EQUIPMENT

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	AUG 97	MAY 98	6	1,000	YES	NO	
FY98	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	JAN 98	JUL 98	3	1,000	YES	NO	
FY99	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	JAN 99	JUL 99	7	1,000	YES	NO	
B. ICAP										
FY96	MOTOROLA SSTG SCOTTSDALE, AZ	C/CPAF[5] FFP	AFMC/ESC	OCT 96	JUN 97	2	N/A [2]			
FY97	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF[5] FFP	AFMC/ESC	JUN 97	JUN 98	19	N/A [2]	YES	NO	
FY98	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF[5] FFP	AFMC/ESC	FEB 98	FEB 99	3	N/A 2	YES	NO	
FY99	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF[5] FFP	AFMC/ESC	FEB 99	FEB 00	6	N/A 2	YES	NO	
3. CECCS FY96	RACAL COMM, INC ROCKVILLE, MD	OPT/FP [3]	AFMC/ESC	APR 96	OCT 96	VAR	N/A[2]			

D. REMARKS

1. OPTION TO FY95 SINCGARS/ANDVT INTEGRATION CONTRACT WITH MAGNAVOX.
2. UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF PACKAGES DEPENDS ON APPLICATION.
3. OPTION TO PRIOR YEAR AIR BASE GROUND DEFENSE PRODUCTION CONTRACT.
4. QUANTITIES MAY HAVE TO BE ADJUSTED BASED UPON NEGOTIATED PRICE AT CONTRACT AWARD.
5. NON-RECURRING COSTS ARE CPAF; RECURRING COSTS ARE FFP.
6. OPTION TO FY95 C/FFP CONTRACT WITH HARRIS CORP, MELBOURNE, FL.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT SURVIVOR/EVADER LOCATOR RADIO				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	2.858	5.731	14.137	14.977	14.859	6.114	6.289

The Combat Survivor/Evader Locator (CSEL) radio will address existing deficiencies in Combat Search and Rescue (CSAR). CSEL will replace existing PRC-90 and PRC-112 survival radios with current and emerging technologies in a new hand-held radio and system to provide enhanced CSAR capabilities. CSEL features include near real-time GPS geopositioning, two-way over-the-horizon data messaging, verification of evader identification and status, low probability of intercept/detection, anti-jam, and the integration of commercial satellite systems capabilities. This program supports all DoD Services with potential to support non-DoD government agencies.

The CSEL program was following a standard new start acquisition path until the June 1995 shootdown, evasion, and eventual recovery of an aircrewman kindled the urgency to develop and acquire an enhanced CSAR capability. In July 1995, the Under Secretary of Defense for Acquisition and Technology USD(A&T) issued a memorandum directing the accelerated development of a CSEL capability. In November 1995, the Vice Chief of Staff/Air Force approved the CSEL operational requirements document and the USD(A&T) approved the overall acquisition strategy. In December 1995, the Secretary of Defense endorsed the CSEL program, including a four-phase plan for CSAR. In February 1996, the Commander, Space and Missile Systems Center announced the contract award of a cost plus award fee contract (Air Force RDT&E funds) for the development of CSEL.

Development of the CSEL radios will take approximately 19 months. Award of the first production option is expected in September 1997 with delivery of the first production units in 2nd quarter of FY98. Approximately 24,000 CSEL radios will be purchased by the Air Force. Ultimately, an estimated 40,000+ CSEL radios will be delivered across all Services.

Congress approved reprogramming of $13.5 million of FY95 RDT&E funds for the FY96 CSEL Engineering and Manufacturing Development (EMD) new start. FY97 RDT&E funding is $9.2 million for CSEL EMD to support the radio production decision in September 1997. These funds include satellite base station development, Joint Search and Rescue Center hardware development, program support, and test and evaluation. FY98 RDT&E funding in the amount of $4.3 million will be used to support test and evaluation and to complete EMD of base station and support equipment. Reference Program Element 35176 of the Air Force RDT&E Descriptive Summaries.

FY97 Other Procurement Air Force funding will purchase the first option of 500 CSEL radio units. FY98 and 99 funds continue procurement with the purchase of 1,000 and 2,500 radios respectively.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME COMBAT SURVIVOR/EVADER LOCATOR (CSEL) RADIO	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
CSEL RADIO	B						(2,858)			(5,731)			(14,137)
CSEL RADIOS					500	5.276[2]	2,638	1,000	4.407[2]	4,407	2,500	4.320[2]	10,800
PROG SPT EQ[1]							220			1,324			3,337
TOTAL							2,858			5,731			14,137

D. REMARKS

1. PROGRAM SUPPORT EQUIPMENT - CSEL SUPPORT EQUIPMENT, E.G., LOADER ADAPTERS, MISSION PLANNING SOFTWARE, DISCS, CABLES, FLYAWAY CASES, ETC.
2. UNIT COSTS ARE DERIVED FROM OPTION 1, 2, & 3 NOT TO EXCEED (NTE) COSTS PLUS AN ESTIMATED $150 FOR SPECIFICATION CHANGES. QUANTITIES MAY REQUIRE ADJUSTMENT AFTER NEGOTIATION OF PRODUCTION OPTION.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: COMBAT SURVIVOR/EVADER LOCATOR (CSEL) RADIO

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
CSEL RADIO										
FY97	BOEING formerly ROCKWELL AUTONETICS	OPTION/FFP [1]	AFMC/SMC	SEP 97	MAR 98	500	5.276 [2]	NO	YES	JUN 97 [3]
FY98	BOEING formerly ROCKWELL AUTONETICS	OPTION/FFP [1]	AFMC/SMC	JUL 98	SEP 98	1,000	4.407 [2]	NO	YES	JUN 97 [3]
FY99	BOEING formerly ROCKWELL AUTONETICS Cedar Rapids, IA	OPTION/FFP [1]	AFMC/SMC	DEC 98	FEB 99	2,500	4.320 [2]	NO	YES	JUN 97 [3]

D. REMARKS

1. OPTION TO FEBRUARY 96 R&D CONTRACT WITH ROCKWELL AUTONETICS
2. UNIT COSTS ARE DERIVED FROM OPTION 1, 2, & 3 NOT TO EXCEED (NTE) COSTS PLUS AN ESTIMATED $150 FOR SPECIFICATION CHANGES. QUANTITIES MAY REQUIRE ADJUSTMENT AFTER NEGOTIATION OF PRODUCTION OPTION.
3. DRAFT SPECS AVAILABLE JUN 97; FINAL SPECS AVAILABLE DEC 97.

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | | | | |

FY98/99 PB					P-1 ITEM NOMENCLATURE										CSEL RADIO												DATE: FEBRUARY 1997																					
ITEM/MFG PROCUREMENT YEAR	S E R V	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00															FISCAL YEAR 01																		FISCAL YEAR 02										LATE R
					99 OCT	99 NOV	99 DEC	CALENDAR YEAR 00 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CALENDAR YEAR 01 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CALENDAR YEAR 02 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
CSAR RADIOS																																														
FY97	AF	500	500	0																																										
	A	0																																												
	N	0																																												
FY98	AF	1000	1000	0																																										
	A	1000	1000	0																																										
	N	1000	1000	0																																										
FY99	AF	2500	1664	836	209	209	209	209																																						
	A	2500	1664	836	209	209	209	209																																						
	N	2500	1664	836	209	209	209	209																																						
TOTAL		11000	8492	2508	627	627	627	627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN	MAX	REA- CH 0+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
BOEING NORTH AMERICA								
formerly Rockwell-Collins	100	2000		INITIAL		9	7	16
				REORDER (OPTIONS)		7	2	9

REMARKS: ESTIMATED DELIVERY SCHEDULE.

P-1 SHOPPING LIST ITEM NO. 73

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EXHIBIT P-21

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	RADIO EQUIPMENT

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	11.995	10.488	12.844	15.540	13.938	14.756	9.203	4.681

This program upgrades existing or procures new radio equipment for the Air Force. The bulk of Air Force large high frequency (HF) radio stations located around the world are more than 20 years old, costly and increasingly difficult to maintain. In light of a declining support posture, and the move to collocate/close U.S. facilities overseas, the Department of Defense (DoD) HF Mission Area Review (MAR) directed the Services/agencies to reduce and collocate HF resources throughout the world. The Joint Staff tasked the Air Force to be the executive agent for the DoD HF collocation effort.

1. **SCOPE COMMAND HIGH FREQUENCY (HF) RADIO STATION REPLACEMENT:** The SCOPE COMMAND program provides for the modernization of selected high power HF ground radio equipment. This program supports the Mystic Star, United States Air Force Global HF System, Defense Communications Systems (DCS) HF Entry, U.S. Navy HICOM, and other high power HF networks. It also supports war plans and operational requirements for the following organizations: White House Communications Agency (WHCA), Joint Chiefs of Staff (JCS), Defense Information Systems Agency (DISA), Air Mobility Command (AMC), Air Combat Command (ACC), Air Intelligence Agency (AIA), Air Force Space Command (AFSPC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), and Air Reserve and Guard Forces.

The SCOPE COMMAND program is divided into two distinct phases. Phase A procures a limited capability to provide Automatic Link Establishment (ALE) to 14 global ground HF radio stations to meet AMC aircraft modification schedules. Phase A includes all equipment and installation costs to provide this ALE capability. Phase B procures equipment for a full HF capability to satisfy other stated mission requirements. Phase B includes the equipment and installation costs to achieve full operational (full-up) capability over and above the Phase A capability. Other program costs include: (a) Type I factory training; (b) Engineering/Integration for the Centralized Net Control definition; (c) other integration efforts required for a full HF capability; (d) and a training station hardware to provide follow-on operational training.

The SCOPE COMMAND program ultimately upgrades 14 Air Force HF stations and a training facility utilizing commercial-off-the-shelf equipment which postures the Air Force to move to centralized control with unmanned HF radio facilities (lights out). The FY96 funding provided for the remaining Phase A stations (Croughton, UK; Diego Garcia, UK; Thule, Greenland; Yokota, Japan; and Incirlik, Turkey) and for engineering the Centralized Net Control concept. FY97 funding provides for implementation/integration of the Net Control "lights out" capability, engineering for the Centralized Net Control concept, Andrews AFB, MD Phase B station equipment, and Type I training. FY98 funding will provide Phase B equipment and installation at two stations (West Coast, CA and Anderson AFB, Guam), equipment for a training station, engineering/integration costs and continued Type I training. FY99 funding will provide for Phase B equipment and installation at four stations (Lajes, Portugal; Ascension Island, UK; Diego Garcia, UK; and Croughton, UK), and for engineering/integration and training costs.

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE RADIO EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

Base closure and DoD HF Mission Area Review (MAR) plans are incorporated into the SCOPE COMMAND program. In the event a location is identified for closure, partial closure, or under study for closure, the Air Force will cease all actions pending a final determination of a location's status and, in turn, apply available funding to the next operational priority.

2. **AF OFFICE OF SPECIAL INVESTIGATION (AFOSI) TACTICAL RADIO SYSTEM**: AFOSI requires reliable radio communications to ensure its criminal, counterintelligence, and force protection missions are accomplished during contingency operations. AFOSI must disseminate real-time threat and force protection information to many users to accomplish this mission. This includes the timely reporting of threat information to base defense forces. The tactical radio systems will allow AFOSI to effectively communicate with other US and Allied forces. Protection of agents in hostile environments is dependent upon the ability to report problems and request assistance. As information collectors, the ability to disseminate is critical to mission accomplishment. FY96 provided funding for procurement of Scope Shield Radios and upgrades to AFOSI land mobile radio trunking systems. FY97 funding will procure upgrades to land mobile radio trunking and Very High Frequency (VHF) systems to meet the National Telecommunications and Information Administration (NTIA mandates for future frequency narrowbanding and digital encryption standards. No FY98/99 funding is requested.

3. **ACC LMR RADIOS SYSTEM**: FY96 provided funding for trunked Land Mobile Radio (LMR) systems at Offutt AFB, NE and Seymour-Johnson AFB, SC. These systems provide trunking infrastructure to manage all radio nets under a single integrated network with significantly reduced bandwidth. FY97 will procure radios for Holloman and Langley AFB, and FY98 will procure radios for Minot AFB and complete the procurement for Offutt AFB. FY99 will complete the procurement of radios for Seymour Johnson AFB.

4. **HILL AFB TRUNKED LMR SYSTEM:** Hill AFB, UT is required to convert their radio assets from a VHF (very high frequency) system to a UHF (ultra high frequency) system. This 10-channel upgrade will support all subscribers at Hill AFB and both northern and southern regions of the Utah Test and Training Range (UTTR). The UTTR is vital to the mission of the 388th Fighter Wing and 421st Reserve Unit located at Hill AFB. This UHF upgrade will support exercises, natural disasters, and real life emergencies at the base. No FY98/99 funding is requested.

5. **PACAF TRUNKED LMR SYSTEM**: The 800 MHz trunked land mobile radio (LMR) system at Andersen AFB, Guam must be replaced with a 400 MHz system by 31 Mar 97, because Andersen's frequency authorization expires on that date and the Federal Communications Commission (FCC) is auctioning off the 800 MHz band for personal communications service. Andersen has not been granted an extension of their frequency authorization beyond March 1997. The FCC has granted

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE RADIO EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

authorization to use the 400 MHz band for the replacement system. By reusing a significant amount of the non-frequency sensitive components, the cost of the replacement system has been minimized. Virtually all organizations on Andersen use LMRs. If LMR service is allowed to lapse, mission essential services will be severely degraded, thus jeopardizing health, welfare, safety, security, and flight operations. Other options to satisfy this requirement were explored and were found to be more costly, not feasible at this time, or would jeopardize wartime requirements. No FY98/99 funding is requested.

6. **USAFA TRUNKED RADIO SYSTEM:** The Trunked Radio system replaces the existing Land Mobile Radio (LMR) network at USAFA. The new system will improve communications coverage and frequency management using state-of-the-art technology. The program will include replacing the infrastructure of the mobile radio network as well as replacing the subscriber units. This will be a phased implementation over the next few years. FY96 funds were used to procure the site survey and engineering design and part of infrastructure equipment for the new trunked radio system from the Army Base Support Trunked Radio System (BSTRS) contract. No FY98/99 funding is requested.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME RADIO EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. SCOPE COMMAND HF	A			(7,122)			(9,174)			(12,246)			(14,943)
RADIO STN REPL													
PHASE A (ALE)		5 [1]	N/A	6,522									
CENTRAL NET CNTRL				600			4,000						
PHASE B (FULL-UP)					1 [1]	VAR	4,256	2 [1]	VAR	7,768	4 [1]	VAR	13,103
TRNG STATION										2,500			
ENGR/INTEGR.							895			1,932			1,748
TYPE I TRAINING							23			46			92
2. AFOSI TAC RADIO SYS	A	VAR	N/A	422			422			0			0
3. ACC LMR RADIOS	A	VAR	N/A	806			892			598			597
4. HILL AFB TRUNKED LMR	A	VAR	N/A	1,000			0			0			0
5. PACAF TRUNKED LMR	A	VAR	N/A	2,300			0			0			0

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME RADIO EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
6. USAFA TRUNKED LMR	A	VAR	N/A	345			0			0			0
TOTAL				11,995			10,488			12,844			15,540
[1] Number of Sites Being Upgraded													

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: RADIO EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. SCOPE COMMAND HF RADIO STATION REPLACEMENT										
PHASE A (ALE)										
FY96	ROCKWELL RICHARDSON, TX	OPT/FFP [1]	AFMC/SM-ALC	AUG 96	JUL 97	5 [2]	VAR [3]			
PHASE B (FULL-UP)										
FY97	ROCKWELL	OPT/FFP [1]	AFMC/SM-ALC	JUL 97	JAN 99	1 [2]	VAR [3]	YES	NO	
FY98	ROCKWELL	OPT/FFP [1]	AFMC/SM-ALC	FEB 98	JUL 99	2 [2]	VAR [3]	YES	NO	
FY99	ROCKWELL RICHARDSON, TX	OPT/FFP [1]	AFMC/SM-ALC	FEB 99	AUG 00	4 [2]	VAR [3]	YES	NO	
2. AFOSI TACTICAL RADIO SYSTEM										
FY96	MOTOROLA, INC	OPT/FP [4]	HQ AFOSI	MAY 96	JUL 96	N/A	VAR [5]			
FY97	MOTOROLA, INC HANOVER, MD	OPT/FP [4]	HQ AFOSI	MAY 97	JUL 97	N/A	VAR [5]	YES	NO	

D. REMARKS

1. DELIVERY ORDERS OFF THE BASIC FY95 CONTRACT WITH ROCKWELL INTL.
2. INDICATES NUMBER OF STATIONS BEING UPGRADED.
3. UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
4. OPTION OFF GSA SCHEDULE.
5. PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
6. MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: RADIO EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. ACC LMR RADIOS										
FY96	ARMY BSTRS CORP	OPT/FFP [6]	HQ ACC	OCT 96	DEC 96	N/A	VAR [5]			
FY97	ARMY BSTRS CORP	OPT/FFP [6]	HQ ACC	MAY 97	DEC 97	N/A	VAR [5]	YES	NO	
FY98	ARMY BSTRS CORP	OPT/FFP [6]	HQ ACC	MAY 98	DEC 98	N/A	VAR [5]	YES	NO	
FY99	ARMY BSTRS CORP HANOVER, MD	OPT/FFP [6]	HQ ACC	MAY 99	DEC 99	N/A	VAR [5]	YES	NO	
4. HILL AFB TRUNKED LMR										
FY96	ARMY BSTRS CORP	MIPR/OPT/FP	AFMC/OO-ALC	OCT 96	DEC 96	N/A	VAR [5]			
5. PACAF TRUNKED LMR										
FY96	ARMY MOTOROLA, INC HANOVER, MD	MIPR/OPT/FP (ID/IQ)	HQ PACAF	MAR 96	FEB 97	N/A	VAR [5]			
6. AIR FORCE ACADEMY LMR FY96	ARMY BSTRS	MIPR to USAISMA	USAFA	JUN 96	SEP 96	1 [5]	VAR [5]			

D. REMARKS

1. DELIVERY ORDERS OFF THE BASIC FY95 CONTRACT WITH ROCKWELL INTL.
2. INDICATES NUMBER OF STATIONS BEING UPGRADED.
3. UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
4. OPTION OFF GSA SCHEDULE.
5. PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
6. MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TV EQUIPMENT (AFRTV)				
	1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	2.475	2.402	2.112	2.039	2.085	2.131	2.168	2.180

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 Air Forces Europe. This program also procures radio and television equipment for the Air Force News Agency (AFNEWS) Production Center, Kelly AFB, TX, which 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.

1. **AFRTS EQUIPMENT PROCUREMENT:** FY96-99 funds procure radio and television broadcasting equipment to include TV cameras, audio consoles, video cassette recorders, audio recorders, integrated receiver decoders, generators, equalizers, mixers, multi-channel video/audio switchers, editors, routers, TV monitors, radio/TV transmitters and antennae, microwave transmitters and antennae, satellite downlinks and fiber optic links, and specialized test equipment. This funding is critical to ensure the capability to deliver AFRTS radio and TV service to uniformed service members, civilian employees, and family members serving overseas, many of whom are serving in remote locations where AFRTS is their sole source of news and information. Failure to fund this program in its entirety will delay the replacement of aging equipment, thereby increasing the frequency of maintenance and repair to keep the older equipment in serviceable condition.

2. **AFNEWS PRODUCTION CENTER:** FY96-99 funds procure radio and TV broadcasting equipment for use within the AFNEWS Production Center. Equipment includes electronic news gathering cameras, amplifiers, receivers, generators, mixers, switchers, routers, monitors, video cassette recorders/players, editors, camcorders, consoles, equalizers, transmitters, portable satellite uplink, and keyboards. Failure to fund this program will impede the ability of AFNEWS to produce and distribute radio and TV productions in support of the Air Force's Internal Information Program and the Army Air Force Hometown News Service.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TV EQUIPMENT (AFRTV)	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AFRTS EQUIPMENT PROCUREMENT	A	VAR	N/A	2,183	VAR	N/A	2,118	VAR	N/A	1,824	VAR	N/A	1,750
2. AFNEWS PRODUCTION CENTER	A	VAR	N/A	292	VAR	N/A	284	VAR	N/A	288	VAR	N/A	289
TOTAL				2,475			2,402			2,112			2,039

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: TV EQUIPMENT (AFRTV)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AFRTS EQUIPMENT PROCUREMENT										
FY96	US ARMY/SAAD [1] MULTIPLE	C/FP/MIPR	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	US ARMY/SAAD [1] MULTIPLE	C/FP/MIPR	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY98	US ARMY/SAAD [1] MULTIPLE	C/FP/MIPR	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY99	US ARMY/SAAD [1] MULTIPLE	C/FP/MIPR	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
2. AFNEWS PRODUCTION CENTER										
FY96	GSA SCHEDULE MULTIPLE [4]	C/FP	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	GSA SCHEDULE MULTIPLE [4]	C/FP	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY98	GSA SCHEDULE MULTIPLE [4]	C/FP	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY99	GSA SCHEDULE MULTIPLE [4]	C/FP	AFNEWS	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	

D. REMARKS

1. US ARMY/SAAD IS THE TELEVISION-AUDIO SUPPORT ACTIVITY (T-ASA) OF THE SACRAMENTO ARMY DEPOT (SAAD), CA. MULTIPLE CONTRACTORS IN THE PAST HAVE INCLUDED: SONY, MOUNTAIN VIEW, CA; BROADCAST ELECTRONICS, QUINCY, IL; HEWLETT-PACKARD, SACRAMENTO, CA; HARRIS CORP, QUINCY, IL; TEKTRONIX, CAMPBELL, CA; GRASS VALLEY GROUP, GRASS VALLEY, CA; R.E. SNADER AND ASSOCIATES, INC., SACRAMENTO, CA; ODETICS BROADCAST, ANAHEIM, CA; ARRAKIS SYSTEMS, INC., FORT COLLINS, CO; SCIENTIFIC CORP., ATLANTA, GA; AND PROFESSIONAL PRODUCTS, BETHESDA, MD.
2. AWARD DATES VARY AND OBLIGATIONS ARE MADE AT THE TIME A DELIVERY ORDER IS PROCESSED.
3. UNIT COSTS VARY WITH EQUIPMENT TO BE PROCURED.
4. MULTIPLE VENDORS SUCH AS SONY, MOUNTAIN VIEW, CA; AMPEX, REDWOOD CITY, CA; CHRYON, MELVILLE, NY; GRASS VALLEY GROUP, GRASS VALLEY, CA; IKEGAMI, MAYWOOD, NJ; AND ACCOM, MENLO PARK, CA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
75	218	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.757	3.958	3.969	3.283	3.359	3.431	3.488	3.515

Close Circuit Television (CCTV) and Audiovisual (AV) systems are used throughout the Department of the Air Force. Television and AV systems have numerous applications and products derived from these systems, all dedicated to the warfighter for operational support and for readiness training, operations, medical, public and internal information, testing and evaluation, and corporate communications programs. Prior year funding continued procurement of smaller and lighter transportable television systems for our combat camera forces. Projected funding for combat camera forces includes the introduction of digital video cameras and recording systems that will enhance the transmission of video data through satellite and terrestrial terminals to commanders at all levels. Additionally, this funding continues to replace older television studio systems with newer and more capable equipment and systems for Air Force television production, video teleconferencing and video teletraining centers. These systems are helping meet the challenges of downsizing the Air Force while continuing to meet the ever-growing visual communications needs of Air Force commanders worldwide. CCTV systems are centrally managed to insure full interoperability with all other electronic image acquisition and presentation systems in the Air Force. FY96-99 CCTV/AV projects are described below.

1. **ELECTRONIC IMAGING SYSTEMS:** FY97 funding concludes procurement of the initial program. Under this program, film cameras and film based equipment are being replaced with electronic based systems Air Force-wide by 1997. The procurement of digitally based processing systems and video/data presentation systems provides greater flexibility and response to acquirers and users of visual imagery. The transition has reduced industrial space requirements and reduced reliance on environmentally hazardous photographic chemicals. No FY98/99 funding requested.

2. **IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:** FY96-99 funds continue procurement of replacement equipment and upgrades for studio based closed circuit television equipment. Advances in technology increasingly offer digitally based equipment for image signal capture, processing, editing and transmission. The technology offers greater capability, reliability and quality. This equipment includes editing and duplication, and all accessories necessary for image capture through distribution. This program funds equipment for 20 production centers and provides products for combat operations, education and training, and corporate communications.

3. **INTERACTIVE VIDEODISC (IVD):** FY96-97 concludes funding for 30 system upgrades each year Air Force-wide to include Digital Video Interactive, a system for incorporating interactive motion imagery within the IVD workstations. IVD technology reduces training time, automates training record keeping and provides better skilled and knowledgeable technicians. No FY98/99 funding requested.

4. **COMBAT CAMERA SYSTEMS:** The FY96-99 program provides funding to replace heavily used and worn mobile combat documentation video cameras and portable video recorders for mobility tasked combat camera crews Air Force-wide. This program provides for technology upgrades to portable video systems and includes lightweight digital video cameras and camcorders that provide enhanced video quality to the warfighter. These newer systems reduce

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

workload, enhance transportability and enable combat camera personnel to transmit motion and still imagery across satellite and cable transmission systems providing warfighters greater flexibility in decision-making with near real-time operational and combat imagery.

5. **VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS:** In FY94, Air Education and Training Command (AETC) initiated Distance Learning which is designed to accommodate the Field Training Detachment drawdown by transmitting " training from Sheppard AFB, TX to remotely located classrooms. Distance Learning includes a process known as Video Teletraining (VTT), which is managed by this program. The Sheppard AFB facility will ultimately export 123 courses covering over 5000 hours of instruction. Current plans call for broadcasting over 2000 hours by FY98. FY96 funds procured uplink and studio equipment for Keesler AFB, MS and expanded existing uplink and studio capabilities at Maxwell AFB, AL and Sheppard AFB, TX. Additionally, FY96 funds procured downlink and classroom equipment for Lackland Training Annex (Medina Annex) in San Antonio, TX and studio enhancements and dubbing facilities at Maxwell AFB, AL. FY97-98 funds will continue the VTT initiative with procurement of additional channel and classroom equipment at bases to support an expanded broadcast schedule for Air University (AU) and AETC's training needs.

6. **LEADERSHIP DEVELOPMENT CENTER**: Air Force Space Command (AFSPC) initiated a one time procurement requirement for video projection and presentation systems for the Command Leadership Development Center. This equipment enables commanders and trainers to provide visual imagery from many visual and data resources to brief and train future commanders, high level DOD, and State and Foreign dignitaries during command conferences, symposiums, seminars and meetings. No FY98/99 funding requested.

	P-1 SHOPP LIST ITEM NO. 76	PAGE NO. 250	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME CCTV/AUDIOVISUAL EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. ELECTRONIC IMAGING SYSTEMS	A	VAR	N/A	855	VAR	N/A	981						
2. IMAGE ACQ/TV STUDIO EQUIPMENT	A	VAR	N/A	975	VAR	N/A	1,000	VAR	N/A	1,600	VAR	N/A	1,610
3. INTERACTIVE VIDEODISC (IVD)	A	VAR	N/A	151	VAR	N/A	126						
4. COMBAT CAMERA SYS	A	VAR	N/A	1,000	VAR	N/A	1,000	VAR	N/A	1,607	VAR	N/A	1,673
5. VIDEO TELECONF/ DISTANCE LEARNING SYSTEMS	A	VAR	N/A	2,454	VAR	N/A	851	VAR	N/A	762			
6. LEADERSHIP DEVELOP-MENT CENTER	A	VAR	N/A	322									
TOTAL				5,757			3,958			3,969			3,283

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	76	251	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. ELECTRONIC IMAGING SYSTEMS										
FY96	MULTIPLE [1]	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	MULTIPLE [1]	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
2. IMAGE ACQUISITION EQUIPMENT/ TELEVISION STUDIO EQUIPMENT										
FY96	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY98	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY99	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
3. INTERACTIVE VIDEODISC (IVD)										
FY96	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	MULTIPLE [1]	C/FP	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	

D. REMARKS

1. EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.
2. THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
3. THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.
4. FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
5. DECCO: DEF COMMERCIAL COMMUNICATIONS OFC .

TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA. AND AFCC CORP, VIRGINIA BEACH, VA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
76	252	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. COMBAT CAMERA SYSTEMS										
FY96	T-ASA [4] MULTIPLE	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	MULTIPLE [1]	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY98	MULTIPLE [1]	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY99	MULTIPLE [1]	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
5. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS										
FY96	DECCO [5] MULTIPLE	C/FP/MIPR	HQ AETC	MULTI [2]	MULTI [2]	VAR	N/A [3]			
FY97	T-ASA [4] MULTIPLE	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	
FY98	T-ASA [4] MULTIPLE	C/FP/MIPR	AFMC [1]	MULTI [2]	MULTI [2]	VAR	N/A [3]	YES	NO	

D. REMARKS

1. EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.
2. THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
3. THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.
4. FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
5. DECCO: DEF COMMERCIAL COMMUNICATIONS OFC .

TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA. AND AFCC CORP, VIRGINIA BEACH, VA.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
76	253	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
6. LEADERSHIP DEVELOPMENT CENTER FY96	MDP CONSTRUCTION COLORADO SP, CO	C/FFP	HQ AFSPC	JUL 96	OCT 96	VAR	N/A			

D. REMARKS

1. EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.
2. THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
3. THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.
4. FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
5. DECCO: DEF COMMERCIAL COMMUNICATIONS OFC .

TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA. AND AFCC CORP, VIRGINIA BEACH, VA.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	31.562	27.408	30.874	28.597	29.416	29.989	30.060	30.570

The Base Communications Infrastructure program supports procurement of communications equipment for base-level infrastructure programs that either replaces maintenance intensive equipment, replaces or upgrades existing digital switching systems, provides network management of information systems, or increases the capacity of saturated information transmission systems to facilitate the rapid dissemination of vital command and control and business processing systems information. Requirements are established by Major Command (MAJCOM), Air National Guard (ANG) or Air Force Reserve (AFR) components, and fall outside the Combat Information Transport System requirements contained in P-1 Line # 61 entitled Base Information Infrastructure.

* Funding for the Air National Guard (ANG), Civil Engineers (CE), and Air Force Materiel Command (AFMC) was formerly funded/appropriated in Base Information Infrastructure, P-1 Line # 61. These projects have been consolidated under this P-1 line to provide better visibility and management of similar programs. FY96 and FY97 funding for the ANG and CE (appropriated on P-1 Line # 61) is displayed on this budget document in order to provide complete funding profiles.

The following depicts FY96-99 projects with funding in this Base Communications Infrastructure line.

1. **AIR NATIONAL GUARD (ANG) TELECOMMUNICATIONS SYSTEMS**: FY96-99 continues to provide Base Communications Infrastructure funding for upgraded communications systems at multiple ANG sites. Funding procures new and upgraded digital switching systems (DSS) PBXs, Information Transport Systems (ITS), digital switching systems to migrate toward Asynchronous Transfer Mode (ATM) data (networks; voice, video, imagery, and telemetry systems; and base information protection systems) to ensure that the ANG (in support of ANG state and federal missions) maintains technologically viable systems that are compatible and interoperable with the DoD and Air Force command, control, communications, computer, information and intelligence architecture.

2. **CIVIL ENGINEERING (CE) REGIONAL PROCESSING CENTER (RPC) CONNECTIVITY**: The regionalization of civil engineering data automation systems being procured in Base Level Data Automation P-1 Line # 58 requires connectivity from base civil engineering units to the regional processing centers. This connectivity will allow CE to continue operation as they transition from proprietary hardware to the DoD mandated open systems environment. FY96-98 funding provides for internal building cabling, hubs, and servers at multiple CE sites. No FY99 funding is requested.

	P-1 SHOPP LIST ITEM NO. 77	PAGE NO. 255	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. **HQ AIR FORCE OFFICE OF SPECIAL INVESTIGATION (AFOSI) SWITCH**: HQ AFOSI is scheduled to move from Bolling AFB, DC to Andrews AFB, MD in 1998 and must install dedicated analog lines for communications security, fax capabilities and classified and unclassified internetworking cable. AFOSI must also link up with the current telecommunications architecture at Andrews AFB requiring procurement of new telephone equipment/instruments due to a different type of switch. FY98 funding will procure the communications hardware and engineering/integration support necessary to support this new system. No FY99 funding is requested.

4. **AIR FORCE COMMUNICATIONS AGENCY (AFCA) SUPPORT**: This program procures a variety of small-scale communications and information systems equipment items in support of the AFCA's Information Technology (IT) mission. Specific projects supported by this funding are Electronic Commerce/Electronic Data Interchange (EC/EDI), and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR). FY99 funds will be used to purchase high speed data processing equipment to host models and simulations, real-time video systems, upgrades for satellite terminals, and lightweight fax machines for C4ISR and EC/EDI; and purchase portable extra high frequency (EHF) deployable satellite terminals for Hammer Ace.

5. **AIR FORCE MATERIEL COMMAND (AFMC) TELEPHONE SYSTEM**: This program funded the Kirkland AFB, New Mexico, Emergency Telephone Response System (E-911). It provides emergency response teams (i.e., Fire Department, Security Police) with the calling party number and location. It precludes having to ask for location in the event the caller cannot speak. No FY98/99 funds requested.

6. **AFMC AERONAUTICAL SYSTEMS CENTER (ASC) TELEPHONE SWITCH**: FY96 funds will procure a new remote electronic phone switch to support the 1200 new users occupying the ASC Acquisition Management Complex Phase II buildings. The installation of this remote switch within the complex supports the Central Utilities distribution Service Center architecture concept and eliminates the need for large bundles of copper pair telephone cables back to the Wright-Patterson AFB, OH Area B main switch. This solution affords more flexible capacity, extension of the single line telephone instrument concept at less cost than the copper service alternative. No FY98/99 funds requested.

7. **AIR FORCE SPACE COMMAND (AFSPC)**: FY98/99 funding will upgrade command wide administrative switches, provide fiber to non-core command buildings, install gray wire in support of Combat Information Transport System (CITS), and acquire asynchronous transfer mode (ATM) equipment. $3.0M per year will be used for ATM switches and the rest will be used for infrastructure requirements.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

8. **ANG/AFR**:

		ANG				AFR	
	QTY		DOLLARS		QTY		DOLLARS
FY96	-		20.512		-		0
FY97	-		19.580		-		0
FY98	-		22.817		-		0
FY99	-		23.648		-		0

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE COMMUNICATIONS INFRASTRUCTURE	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. ANG TELECOMMUNICATIONS SYSTEMS	A	VAR	N/A	20,512	VAR	N/A	19,580	VAR	N/A	22,817	VAR	N/A	23,648
2. CE RPC CONNECTIVITY	A	VAR	N/A	8,891	VAR	N/A	7,828	VAR	N/A	3,148			
3. AFOSI SWITCH	A							VAR	N/A	424			
4. AFCA SUPPORT	A										VAR	N/A	471
5. AFMC - KIRTLAND TELEPHONE SYSTEM	A	VAR	N/A	179									
6. AFMC - AERONAUTICAL SUPPORT CENTER TELEPHONE SWITCH	A	VAR	N/A	1,980									
7. AFSPC SUPPORT								VAR	N/A	4,485	VAR	N/A	4,478
TOTAL				**31,562**			**27,408**			**30,874**			**28,597**

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	77	258	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. ANG TELECOMMUNICATIONS SYSTEMS										
FY96										
SIOUX CITY, IA	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	APR 96	JUL 96		207			
JACKSONVILLE, FL	TENNMARK NASHVILLE, TN	OPT/FP [2]	ANG/SMALC	AUG 96	OCT 96		240			
MAUI ANG, HI	AT&T	OPT/FP [1]	HQ ANG	SEP 96	DEC 96		347			
KULIS ANGB, AK	AT&T	OPT/FP [1]	HQ ANG	JUL 96	SEP 96		470			
SIOUX FALLS, SD	TENNMARK	OPT/FP [2]	ANG/SMALC	AUG 96	OCT 96		200			
YEAGER ANGB, WV	TENNMARK	OPT/FP [2]	ANG/SMALC	SEP 96	DEC 96		250			
FT SMITH ANGB, AR	TENNMARK	OPT/FP [2]	ANG/SMALC	AUG 96	OCT 96		250			
GREATER PEORIA, IL	TENNMARK	OPT/FP [2]	ANG/SMALC	SEP 96	NOV 96		250			
PORTLAND IAP, OR	AT&T	OPT/FP [1]	HQ ANG	SEP 96	NOV 96		223			
ALPENA ANGB, MI	AT&T	OPT/FP [1]	HQ ANG	JUN 96	AUG 96		133			

D. REMARKS

WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG SMALL SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	APR 96	OCT 96	74 [4]	19			
WARRIOR NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FP [3]	HQ ANG	MAY 96	JUL 96	86 [4]	31			
ANDREWS AFB, MD WARNET UPLINK	AT&T FEDERAL SYS	OPT/FP [3]	HQ ANG	MAY 96	JUL 96		405			
TYNDALL AFB, FL WARNET UPLINK	AT&T FEDERAL SYS	OPT/FP [3]	HQ ANG	MAY 96	JUL 96		405			
OTIS ANGB, MA	DICHROMA FALLS CHURCH, VA	OPT/FP [5]	HQ ANG	JUL 96	OCT 96		100			
ANG WAN ROUTER BUY/INSTALL	BDM FALLS CHURCH, VA	C/FP	HQ ANG	JUL 96	SEP 96	43 [4]	24			
ANG WAN ROUTER BUY/INSTALL	DIGICOM BETHESDA, MD	SS/FP [6]	HQ ANG	JUL 96	AUG 96	25 [4]	9			
ANG WAN SERVER BUY	DIEZ LAKERIDGE, VA	OPT/FP [7]	HQ ANG	APR 96	MAY 96	111 [4]	14			

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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
77	260	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP [6]	HQ ANG	JUL 96	AUG 96	75 [4]	13			
ANG WAN CD TOWER BUY	DIGICOM	SS/FP [6]	HQ ANG	SEP 96	OCT 96	85 [4]	10			
ANG WAN NETWORK OPERATING SOFTWARE	DIGICOM	SS/FP [6]	HQ ANG	SEP 96	DEC 96		3500			
ANG IMAGING SYSTEM	AMERIND, INC ALEXANDRIA, VA	OPT/FP [8]	HQ ANG	MAR 96	SEP 96	10 [4]	300			
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS AXEXANDRIA, VA	C/FP	HQ ANG	SEP 96	SEP 96	89 [4]	18			
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	C/FP	HQ ANG	JUL 96	AUG 96		222			
FY97										
HENSLEY ANGB, TX	TENNMARK NASHVILLE, TN	OPT/FP [2]	ANG/SMALC	JAN 97	MAR 97		250			
BOISE, ID	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	JAN 97	APR 97		903			
ANG SMALL SWITCH UPGRADES	AT&T	OPT/FP [1]	HQ ANG	JAN 97	JUN 97	75 [4]	21			

D. REMARKS

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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG SMALL SWITCH UPGRADES	TENNMARK NASHVILLE, TN	OPT/FP [2]	ANG/SMALC	JAN 97	JUN 97	40 [4]	34			
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP [3]	HQ ANG	JAN 97	MAR 97	86 [4]	23			
OTIS ANGB, MA ATM FIBER	DICHROMA FALLS CHURCH, VA	OPT/FP [5]	HQ ANG	OCT 96	DEC 96		2000			
BUCKLEY ANGB, CO ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	DEC 96	FEB 97		200			
HULMAN RAP, IN ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	DEC 96	FEB 97		200			
BIRMINGHAM, AL ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	FEB 97	APR 97		178	YES	NO	
JEFFERSON BARRACKS, MO ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	FEB 97	APR 97		178	YES	NO	
SELFRIDGE, MI ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	APR 97	JUN 97		750	YES	NO	
SEPULVEDA ANGB, CA ATM FIBER	DICHROMA FALLS CHURCH, VA	OPT/FP [5]	HQ ANG	APR 97	JUN 97		150	YES	NO	

D. REMARKS

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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
WILLOW GROVE, PA ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	JUN 97	SEP 97		500	YES	NO	
SPRINGFIELD, OH ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	JUN 97	SEP 97		178	YES	NO	
NEW ORLEANS, LA ATM FIBER	DICHROMA	OPT/FP [5]	HQ ANG	AUG 97	NOV 97		200	YES	NO	
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	OPT/FP [9]	HQ ANG	SEP 97	SEP 97	86 [4]	14	YES	NO	
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP [10]	HQ ANG	JUN 97	AUG 97	86 [4]	15	YES	NO	
ANG-WIDE IMAGING SYS	AMERIND, INC ALEXANDRIA, VA	OPT/FP [8]	HQ ANG	JAN 97	AUG 97	10 [4]	300	YES	NO	
ANG WAN HUB BUY/INSTALLL	PRESIDIO LANHAM, MD	OPT/FP [11]	HQ ANG	JUN 97	AUG 97	30 [4]	35	YES	NO	
ANG/GSU WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP [5]	HQ ANG	AUG 97	SEP 97	220 [4]	13	YES	NO	

D. REMARKS
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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
NETWORK MANAGEMENT SOFTWARE	GSA UNKNOWN	OPT/FP [12]	HQ ANG	APR 97	SEP 97		1276	YES	NO	
FY98										
ANG SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	JAN 98	JUN 98	43 [4]	46	YES	NO	
ANG SWITCH UPGRADES	TENNMARK NASHVILLE, TN	OPT/FP [2]	ANG/SM-ALC	JAN 98	JUN 98	43 [4]	45	YES	NO	
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP [3]	HQ ANG	JAN 98	MAR 98	86 [4]	24	YES	NO	
ANG-WIDE IMAGING SYS	AMERIND, INC ALEXANDRIA, VA	OPT/FP [8]	HQ ANG	JAN 98	AUG 98	10 [4]	300	YES	NO	
ANG WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP [6]	HQ ANG	FEB 98	APR 98	225 [4]	6	YES	NO	
ANG WAN SERVER UPGRADE	GSA UNKNOWN	OPT/FP [12]	HQ ANG	FEB 98	APR 98	225 [4]	6	YES	NO	
ANG/GSU WAN CD TOWER BUY	DIGICOM BETHESDA, MD	SS/FP [6]	HQ ANG	MAR 98	MAY 98	110 [4]	10	YES	NO	

D. REMARKS

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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG WAN ROUTER UPGRADE	GSA UNKNOWN	OPT/FP [12]	HQ ANG	DEC 97	JAN 98	250 [4]	4	YES	NO	
ANG WAN FAST ETHERNET SERVER BUY	GSA UNKNOWN	OPT/FP [12]	HQ ANG	JUN 98	SEP 98		885	YES	NO	
ANG WAN HUB BUY/INSTALL	PRESIDIO LANHAM, MD	OPT/FP [11]	HQ ANG	DEC 97	FEB 98	60 [4]	50	YES	NO	
ANG-WIDE VOICE/VIDEO WIRE FIBER OPTIC CONVERSION	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	MAR 98	AUG 98	12 [12]	284	YES	NO	
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA,VA	OPT/FP [9]	HQ ANG	JUN 98	SEP 98	86 [12]	14	YES	NO	
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP [10]	HQ ANG	JUN 98	AUG 98		618	YES	NO	
FY99										
ANG SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP [1]	HQ ANG	JAN 99	JUN 99	43 [4]	35	YES	NO	
ANG SWITCH UPGRADES	TENNMARK NASHVILLE, TN	OPT/FP [2]	ANG/SM-ALC	JAN 99	JUN 99	43 [4]	34	YES	NO	

D. REMARKS

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DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP [3]	HQ ANG	JAN 99	MAR 99	86 [4]	25	YES	NO	
ANG-WIDE IMAGING SYSTEM	GSA UNKNOWN	OPT/FP [12]	HQ ANG	FEB 99	APR 99	225[12]	6	YES	NO	
ANG WAN SERVER UPGRADE	UNKNOWN [13]	SS/FP [13]	HQ ANG	APR 99	JUL 99	150[12]	6	YES	NO	
ANG WAN CD TOWER UPGRADE	UNKNOWN [13]	SS/FP [13]	HQ ANG	MAR 99	MAY 99	110[12]	10	YES	NO	
ANG WAN ATM HUB UPGRADE	GSA UNKNOWN	OPT/FP [14]	HQ ANG	MAR 99	MAY 99	600[12]	6	YES	NO	
ANG-WIDE VOICE/VIDEO WIRE FIBER CONVERSION	AT&T	OPT/FP [1]	HQ ANG	MAR 99	AUG 99	33[12]	297	YES	NO	
ANG -WIDE NETWORK INFORMATION PROTECT	SUN MICRO SYS ALEXANDRIA, VA	OPT/FP [9]	HQ ANG	MAR 99	SEP 99	86[12]	14	YES	NO	
ANG -WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP [10]	HQ ANG	JUN 99	AUG 99		691	YES	NO	

D. REMARKS

WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE COMMUNICATIONS INFRASTRUCTURE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. CE RPC CONNECTIVITY										
FY96	MULTIPLE [15]	C/FFP	HQ AFCESA	DEC 96[15]	FEB 96 [15]	VAR	N/A [15]	YES	NO	
FY97	MULTIPLE [15]	C/FFP	HQ AFCESA	JAN 97 [15]	MAR 97 [15]	VAR	N/A [15]	YES	NO	
FY98	MULTIPLE [15]	C/FFP	HQ AFCESA	NOV 97[15]	JAN 98 [15]	VAR	N/A [15]	YES	NO	
3. AFOSI SWITCH										
FY98	MULTIPLE [15]	C/FP	HQ AFOSI	DEC 97	JAN 98	VAR	N/A [15]	YES	NO	
4. AFCA COMM TRNG SUPPORT										
FY99	MULTIPLE [15]	C/FP	HQ AFCA	JAN 99	MAY 99	VAR	N/A [15]	YES	NO	
5. AFMC TELEPHONE SYSTEM -KIRTLAND										
FY96	SYSTEMS INTERGRATION/ MODELING & SIMULATION INC (SIM&S)	OPT/FP[6]	AFMC/ KIRTLAND AFB	JAN 97	APR 97	VAR	N/A			
6. AFMC TELEPHONE SWITCH - AERONAUTICAL SUPPORT CENTER										
FY96	NORTEL RICHARDSON TX	OPT/FP[16]	AFMC/SM-ALC	FEB 96	APR 96	VAR	N/A			
7. AFSPC										
FY98	MULTIPLE[17]	C/FP	MULTI	JAN 98	MAY 99	VAR	N/A	YES	NO	
FY99	MULTIPLE[17]	C/FP	MULTI	JAN 99	MAY 00	VAR	N/A	YES	NO	

D. REMARKS
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FOOTNOTES:

1. GSA Schedule 58, Part IV, is a contract negotiated annually by GSA with AT&T.
2. Option to regionalized GSA competitive contract for switches with Tennmark, Nashville, TN.
3. The ANG awarded a competitive contract in Jan 95 to AT&T Federal Communications Systems, Silver Spring, MD, for video teleconferencing hardware/software to implement the ANG's Warrior Network. Warrior Network provides information distribution network capability to support video-teletraining, e.g., distant learning, and video teleconferencing, e.g., staff meeting/town hall services through the ANG.
4. Number of ANG locations.
5. Option to contract with Dichroma Corp through GSA Office of Information Security.
6. 8A Small Business Set Aside Contract.
7. Various options off the GSA schedule.
8. The ANG awarded a 5-year 8A (Small Business) contract in Mar 94 to Amerind, Inc, Alexandria, VA to procure automated information system services and hardware/software items to include automated management and imagery systems.
9. Option to FY96 contract with Sun Micro Systems, Alexandria, VA.
10. Option to FY96 contract with ZDS Corp, Herndon, VA.
11. The ANG awarded a 5-year 8A Small Business Set-aside to Presidio, Lanham, MD procure local area network (LAN) components and install LANs at ANG locations throughout the U.S. and its territories.
12. Option off the GSA schedule. Contractor to be determined.
13. 8A Business Set-aside Contract. Specific contractor to be determined.
14. Contract to be awarded through GSA Office of Information Security. Specific contractor to be determined.
15. Multiple types of equipment will be procured off the GSA schedule resulting in varying unit costs. Above award and delivery dates represent date of first award and delivery.
16. Option off Scope Dial Contract administered by Sacramento ALC, McClellan AFB, CA.
17. Multiple Fair and Open Contracts (AFSPC Command Contract) - GSA - Small Business

D. REMARKS NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIC LOCATION. DUE TO SPACE LIMITATIONS, THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.			
	P-1 SHOPP LIST ITEM NO. 77	PAGE NO. 268	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CIVIL AIR PATROL (CAP) COMMUNICATIONS AND ELECTRONICS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	-	.387	.388	.400	.411	-	-

The Civil Air Patrol (CAP) Communications and Electronics program is a continuing program for acquisition of communications and computer equipment required to support nationwide CAP activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counterdrug, disaster relief and training activities. CAP activities require automated data processing equipment (ADPE) support for processing and storage of CAP membership information, aerospace education and cadet training program data, operational and logistics data, bookstore, depot inventory and sales information (CAP accounting system) and other day-to-day management activities. FY98/99 funding continues procurement of such items as (1) very high frequency-frequency modulated (VHF-FM) transceivers and signal repeaters; (2) high frequency (HF) transceivers, power supplies and antennas; (3) high frequency voice system upgrade, and (4) National Digital Radio Network (NDRN) Expansion Project.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.888	9.635	8.960	8.702	9.266	9.015	6.490	6.495

The "Items Less Than $2 Million" line funds various procurement activities which support the missions of all Air Force Major Commands. This program contains numerous miscellaneous items of electronics and telecommunications equipment; no single item procured in this P-1 line is greater in cost than $2 million. Two of the major procurement activities in this line are for Allowance Sources (AS) equipment and replacement power conditioning equipment. Miscellaneous AS Authorizations provide support to organizational units in the field in terms of newly authorized and/or replacement items of equipment. Power Conditioning and Continuation Interface Equipment (PCCIE) systems are used to back up and protect power sensitive/dependent computer systems. Projects associated with FY96-99 funding are described below:

1. **ALLOWANCE SOURCES (AS) AUTHORIZATIONS:** Requirements funded in this program are generated as the result of condemnations of existing equipment, an increase in the basis of issue on an individual item, or a change in the basing structure. Units requisition items based on authorizations contained in Allowance Sources (AS) which tailor support equipment authorizations to unit missions. The Equipment Item Requirements Computation generates a total net buy requirement based on a comparison of authorizations and on-hand assets. Examples of equipment procured are: special electronics atmospheric equipment, electronic warfare and bombing gunnery ranges, equipment for communications evaluation/maintenance teams, and ground radar special mission and support equipment. FY98-99 funds continue funding for Air Force AS requirements.

2. **POWER CONDITIONING AND CONTINUATION INTERFACE EQUIPMENT (PCCIE):** PCCIE consists of a family of commercial equipment or devices which provides specialized electric power conditioning or regulation to support power sensitive data processing, communications, life support and mission critical equipment. Examples are solid state uninterruptible power systems and power (line) conditioners. This program procures replacement PCCIE for all Major Commands (MAJCOMs) and Field Operating Agencies (FOAs) as well as for the Air National Guard (ANG) and Air Force Reserve (AFR). PCCIE for new systems is procured in conjunction with the major end items of equipment in the same P-1 line where the equipment is bought. FY98-99 funds continue PCCIE procurement for multiple Air Force programs.

3. **AUTOMATED RADAR TRACKING SYSTEM (ARTS):** FY96 funds supported installation of a remote ARTS to provide radar coverage of Shaw AFB, SC airspace warning systems off the coast of South Carolina. This action transferred military Air Traffic Control (ATC) workload from the FAA Jacksonville Air Route Traffic Control Center (ARTCC) to the Shaw AFB Radar Approach Control (RAPCON) facility. The Shaw AFB RAPCON will now be able to provide military radar coverage of the USAF's Atlantic Ocean airspace warning areas.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN $2,000,000				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **NORTH WARNING PROGRAM OFFICE:** FY96 funds supported North Warning Program Office reimbursement of the contractor for proposal preparation based on a canceled Spread Spectrum modification to the AN/FPS-117 Long Range Radar.

5. **SPACE ARCHITECTURE OFFICE:** FY96 funds procured office automation equipment (LANS, Audiovisual, General Purpose) to support stand-up of the Space Architecture Office. Reference Congressional notification letter, 9 Feb 96, to Senator Inouye and members of other Congressional Committees. This effort supports Congressional concerns with regard to DOD space management.

6. **CIVIL AIR PATROL**: FY97 funds procured digital radio equipment to support the National Digital Radio Network (NDRN) Expansion Project and the Civil Air Patrol High Frequency Voice Upgrade project. FY98 and FY99 funds are budgeted under P-1 Line Number 78, CAP Com & Electronics.

ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	-	0.000	-	0.000
FY97	-	0.000	-	0.000
FY98	-	3.491	-	0.046
FY99	-	1.694	-	0.000

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME ITEMS LESS THAN $2,000,000	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Pieces of Equipment are Procured Off Various Contracts

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. ALLOWANCE SOURCES AUTHORIZATIONS	A	VAR	N/A	3,520	VAR	N/A	2,849	VAR	N/A	3,437	VAR	N/A	2,913
2. PCCIE	A	VAR	N/A	923	VAR	N/A	6,495	VAR	N/A	5,523	VAR	N/A	5,789
3. ARTS	A	VAR	N/A	471									
4. NORTH WARNING PROGRAM OFFICE	A	VAR	N/A	250									
5. SPACE ARCH OFFICE	A	VAR	N/A	724									
6. CIVIL AIR PATROL	A				VAR	N/A	291						
TOTAL				5,888			9,635			8,960			8,702

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	79	272	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	9.657	14.209	53.260	61.293	62.658	47.656	45.304	45.530

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for Communication-Electronics equipment and systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY96-FY99 are ongoing or planned for the following systems: Atmospheric Early Warning System (AEWS), Ground Tactical Air Control System (GTACS), Air Traffic Control and Landing Systems (ATCALS), Weather Observation and Forecast, Cheyenne Mountain Complex (CMC), Ballistic Missile Early Warning System (BMEWS). Details follow by system: ($ in millions)

1. **ATMOSPHERIC EARLY WARNING SYSTEM (AEWS),** together with the Ballistic Missile Warning System and the Space Surveillance System, form the Integrated Tactical Warning and Attack Assessment (ITW/AA) network. The AEWS provides the early warning for all atmospheric threats, e.g., aircraft and cruise missiles approaching the northern hemisphere. The AEWS includes sensors (AN/FPS-117, AN/FPS-118, and AN/FPS-124) and the operations centers (Regional Operations Control Centers/Sector Operations Control Centers (ROCCs/SOCCs)) that use the AN/FYQ-93 computer system to fuse and act on warning data to launch intercepts at potential hostile threats. The system data is forwarded to the National Command Center at Cheyenne Mountain Complex for overall control of defense operations by North American Aerospace Defense (NORAD) Command. Modifications are ongoing on the following equipment items:

a. The **AN/FPS-117** long range radar is a minimally attended, solid-state radar that detects and tracks air breathing targets at ranges of up to 200 nautical miles (NMI). Various versions of the AN/FPS-117 have been fielded under the SEEK IGLOO program, the North Warning System, and the North Atlantic Defense Systems (NADS). Data from the AN/FPS-117 is forwarded and processed by the AN/FYQ-93 computer at the operations control centers.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
38516B	AN/FPS-117 RELIABILITY, MAINT & SUPR IMPROVEMENT	25.235	0	5.046	5.049	0.299
	TOTAL	25.235	0	5.046	5.049	0.299

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. **GROUND TACTICAL AIR CONTROL SYSTEM (GTACS)** The GTACS consists of the ground based portion of the Theater Air Control System (TACS), and 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, air interdiction, close air support, counter air, airlift, air refueling, special operations, electronic combat, surveillance, reconnaissance, and search and rescue mission. The GTACS also plays a major role in Theater Missile Defense (TMD) and the evolving concept of Theater Battle Management (TBM).

a. The **AN/TPS-75**: The GTACS uses the AN/TPS-75 radar as its primary sensor. The TPS-75 radar is an upgrade to the 1940's vintage AN/TPS-43E radar. The AN/TPS-75 has an ultra low sidelobe antenna (ULSA) which added an electronic countermeasures capability to the AN/TPS-43E. The AN/TPS-75 radar is a mobile, three dimensional (range, azimuth, altitude) surveillance, acquisition, and tracking radar used in the GTACS for aerospace control in the theater of air operations. It has an operating range of 240 miles and altitude coverage up to 95,000 feet. The AN/TPS-75 radar is fielded in the active Air Force and the Air National Guard TACS.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00
M00016	RADAR SHELTER REPLACEMENT					1.000	1.000
M00018	UPX-27 IFF INTEROGATOR					0.990	1.485
	TOTAL					1.990	2.485

3. **AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS)** is a combination of USAF ground facilities and equipment with associated avionics, personnel and procedures that provide air traffic control support to USAF/DoD flying missions worldwide. ATCALS provide enroute and terminal navigation, control and separation, and approach, departure and landing guidance. ATCALS provide operability with NATO, the U. S. National Airspace System and the International Civil Aviation Organization. Includes both fixed and tactical equipment/systems.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
B7165	AN/TPN-19 LANDING CONTROL		7.100		1.393	
B7167	AN/TRN-41 ANT TRANSMITTER			7.296	1.030	
	MISC LOW COST MOD	0.070				
	TOTAL	0.070	7.100	7.296	2.423	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. The **WEATHER OBSERVATION AND FORECAST** system supports the worldwide meteorological missions of the Air Force, the Army, and the unified commands. Included are fixed and transportable equipment needed to provide observing and forecast services at base or post and for field deployments; and fixed and tactical dedicated weather communications equipment to support weather operations for the warfighters.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00	FY01	FY02
B7126	QRCT WX COMM	1.500	1.492						
B7127	AN/FMQ-8 PACER CARD		0.305						
94-010	UMQ-12 UPPER AIR SOUNDER GLOBAL POSITIONING ENHANCEMENT		0.760						
94-003A	WSR-88D TRANSMITTER UPGRADE			1.867	1.800	0.533			
94-008	CENTRALIZED DATABASE MANAGEMENT SYSTEM (CDMS) UPGRADE				2.500				
95-001	AF GWC DIAL-IN SUBSYSTEM (AFDIS) & AFW INFORMATION NETWORK (AFWIN)				5.410				
94-003B	WSR-88D RADAR DATA ACQUISITION (RDA) GROUP MIGRATION TO OPEN SYSTEM					2.200	1.930	2.095	
96-001	SOLAR ELECTRO-OPTICAL NETWORK (SEON) SOLAR MAX (SSM)				4.821	0.050	0.150		
93-005	RADIO SOLAR TELESCOPE NETWORK (RSTN) MOD FOR SRBL				2.200	5.500	0.300		
95-010	TACTICAL FORECAST SYSTEM (TFS)/AWDS MERGED SYSTEM, TFS-2000				6.787	1.713			
93-008	AN/FMH-2 AUTOMATED WEATHER DISTRIBUTION SYSTEM (AWDS) FUNCT AREAS				0.925	0.818	1.914		
95-003	WEATHER INFORMATION PROCESSING SYSTEM (WIPS) UPGRADE					6.000	2.000		
94-004A	WSR-88D RADAR PRODUCT GENERATOR (RPG) MIGRATION				0.904	1.182	1.200		
94-004B	PRINCIPAL USER PROCESSOR (PUP) GROUP REPLACEMENT				0.635	2.000	1.980	1.100	
95-011	TACTICAL METEOROLOGICAL OBSERVING SYSTEM UPGRADE				1.653	1.746	6.084		
96-031	IMPROVED SOLAR OBSERVING OPTICAL NETWORK (ISOON)					1.300	3.400	0.100	0.300
	TOTAL	1.500	2.557	1.867	27.635	23.042	18.958	3.295	0.300

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

5. The **CHEYENNE MOUNTAIN COMPLEX** (CMC) provides: (1) real-time processing and display of missile warning and force management information to the CMC and the Alternate Processing and Correlation Center, and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) communications services for all communications into or out of CMC and between CMC mission processors; (3) new processors and display systems supporting the CMC Air Defense Operations Center (ADOC), North American Aerospace Defense Center (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) an effective command post to support NORAD's multiple warning and defense missions; (5) automated handling of space surveillance and warning messages; (6) communications interface processors at all missile warning sensors and command centers: and (7) an alternate NORAD command center, alternate missile warning center, alternate air warning center.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00	FY01
S529382	TECH CONTROL (BYTEX)				4.000	3.900		
S604620	SCIS					2.356	1.900	1.500
S604628	VDS MONITOR					4.559	1.958	1.933
S604622	ELECTRONIC WARFARE WORKSTATION				0.575	0.125		
MISC	MISCELLANEOUS LOW COST MODS				0.686	0.167		
	TOTAL				5.261	11.107	3.858	3.433

6. The **BALLISTIC MISSILE WARNING SYSTEM (BMEWS)** consists of three sites located at Thule, Greenland; Clear, Alaska; and Flyingdales, England. Its mission is to detect and provide warning of a ballistic missile attack on the United States, Canada, and the United Kingdom, or Europe. BMEWS was built in the late 50's; other BMEWS radars (Thule and Flyingdales) already upgraded to phased-array technology in 1987 and 1992. BMEWS originally built as trip-wire system in response to 1950s threat; however, this threat has evolved through several generations of ICBMs/SLBMs; therefore, target handling and accuracy capabilities need to be upgraded to better discriminate RVs from other objects in order to obtain a more accurate raid count and impact prediction. This modification upgrades the Clear Alaska site to a two-faced, fixed 0dB (1792 active radar elements) phased-array radar using the Eldorado PAVE PAWS equipment; moving all equipment and installing it at Clear Alaska and includes all hardware elements (radar elements, signal processors, data processors) and software. This modification will significantly reduce the Clear Alaska site operations and maintenance cost, increase the capability, reliability, and availability of the system.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00
	CLEAR ALASKA RADAR UPGRADE				12.892	24.855	21.898
	TOTAL				12.892	24.855	21.898

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

7. **ANG/AFR:**

	ANG			AFR	
	QTY		DOLLARS	QTY	DOLLARS
FY96	-		0.528	-	0.000
FY97	-		0.844	-	0.000
FY98	-		0.602	-	0.000
FY99	-		0.152	-	0.000

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EXHIBIT P-3N

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

System/Modification: Comm-Electronics	Mod #	Title	PY	FY96	FY97	FY98	FY99	FY00	FY01	FY02	
Atmospheric Early Warning System (AEWS)	385168	AN/FPS-117 Reliability, Maint & Supportability Improvement			0.2	0.7	0.3				
		AEWS TOTAL			0.2	0.7	0.3				
Weather Observation And Forecast	94-003B	WSR-88D Radar Data Acq (RDA) Group					*	*	0.1		* Less Than $50K
	96-001	Solar Electro_optical Network (SEON) SolarMax (SSM)					*	0.2			* Less Than $50K
	93-005	Radio Solar Telescope Network (RSTN) Solar Burst Locator (SRBL)					0.1	0.3			
	95-003	AF Global WX Central (AFGWC) WX Info Processing Sys (WIPS)					*	*			* Less Than $50K
	94-004A	WSR-88D RADAR PRODUCT GENERATOR (RPG) MIGRATION				*	*	0.1			* Less Than $50K
	94-004B	WSR-88D Principle User Replacement (PUP)				*	0.2	0.4	0.2		* Less Than $50K
	96-031	AN/FMQ-7 Solar Observing Optical network Enhancement							0.1	0.3	
		WX OBS TOTALS				*	0.3*	0.9*	0.4	0.3	* Less Than $50K
Cheyenne Mountain Complex (CMC)	S529382	Tech Control Upgrade, Part 2 (Matrix Switches)				0.1	0.5				
	S604620	SCIS VAX FT410					0.4	0.4	0.3		
	S604628	Video Display System (VDS) Monitor Replacement					0.2	0.4	0.1		
	S604622	Electronic Warfare Workstation					0.1	*			
		CMC TOTALS				0.1	1.2	0.8*	0.4		
Ballistic Missile Warning System (BMEWS)		Clear Alaska Upgrade				14.0	20.1	14.4			
		BMEWS TOTALS				14.0	20.1	14.4			
		COMM-ELECTRONICS GRAND TOTAL			0.2	14.8	23.0*	16.1*	0.8*	0.3	* Less Than $50K

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Modification Title and No: AN/FPS-117 Reliability, Maintainability, and Supportability (RMS) Improvement, 38516B

Models of Systems Affected: Comm-Electronics - Atmospheric Early Warning System (AEWS)

Description/Justification: This modification will improve reliability/maintainability above 2160 hours Mean Time Between Failure (MTBF) to support the un-manned operational concept. The program requirements are to replace the unreliable Digital Data Processor/Multi-Modular processor (DDP/MMP) of the Radar Data Processor (RDP), and MMP from the Maintenance Control System (MCS), eliminate on-site manual adjustments on the preprocessor (PP), and replace the Operations Control Group (OCG) with open system architecture technology. If this modification is not funded, continuing system defiencies will result in increased logistics support cost, reduced reliabliity/maintainability, loss of un-manned Canadian site coverage, and further impact on operational availability. A total of 34 operational radar upgrade kits will be procured along with four kits to outfit the Maintenance Control Sites (MCS) which allow for remote control of maintenance and operations functions of the radars. The two versions of the radar in the inventory as well as MCS kits require slightly different configuration upgrade kits which results in kit cost variance. Contract awarded Aug 95, protest resolved Jan 96. The total requirement is for 38 kits funded through FY98. PY funds 19 kits and covers nonrecurring cost. FY97 funds 11 kits and FY98 funds the final 8 kits.

Development Status/Major Development Milestones: CCB Apr 94; PDR Jul 96; CDR Jan 97

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 00		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment	19	6.9			11	4.6	8	3.8									38	15.3	
Equipment Nonrecurring		6.1																6.1	
Engineering Change Orders																			
Data		0.5																0.5	
Training Equipment																			
Support Equipment		0.3																0.3	
Other		0.2				0.2		0.5										1.0	
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (19 Kits)					7	0.2	12	0.4									19	0.6	
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (11 Kits)							10	0.3	1	*							11	0.3	* Less Than $50K
(FY98) Eqpt (8 Kits)									8	0.299							8	0.3	
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
(FY02) Eqpt (Kits)																			
Total Installation Cost					7	0.2	22	0.7	9	0.3							38	1.2	
Total Procurement Cost	19	14.0			11	5.0	8	5.0		0.3							38	24.3	

Method of Implementation: Contractor — Administrative Lead Time: 18 Months — Production Lead Time: 18 Months

Contract Dates:	FY95: Feb 96	FY96:	FY97: Oct 96	FY98: Oct 97	FY99:	
Delivery Dates:	FY95: Jun 97	FY96:	FY97: Apr 98	FY98: Oct 98	FY99:	

Installation Schedule	PY	FY 96				FY 97				FY 98				FY 99				FY 00			TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input								5	2	4	6	6	6	6	3							38
Output								5	2	4	6	6	6	6	3							38

Modification Title and No: AN/TPS-75 RADAR Shelter Replacement: Mod# M00016

Models of Systems Affected: Comm-Electronics - GTACS - AN/TPS-75

Description/Justification: This modification replaces the current Radar equipment shelter with an improved version with increased weight capability. The current shelters are 20 years old, deteriorating, delaminating and are increasing overall operation and maintenance costs. Several shelters do not support the operational mission or are mission limiting.

Development Status/Major Development Milestones: Technical Solution: Sep 96, FSD Contract: TBD

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOT AL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:						1.7		0.2										1.9
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment									12	1.0	12	1			24			2.0
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (Kits)									6		6							
(FY99) Eqpt (12 Kits)											6		6					
(FY00) Eqpt (12 Kits)																		
(FY01) Eqpt (Kits)																		
(FY02) Eqpt (Kits)																		
Total Installation Cost									12	1.0	12	1.0					24	2.0
Total Procurement Cost																		

Method of Implementation: Organic, Depot — Administrative Lead Time: 3 Months — Production Lead Time: 9 Months

Contract Dates:	FY96:	FY97:	FY98:	FY99: Oct 98	FY00: Oct 99
Delivery Dates:	FY96:	FY97:	FY98:	FY99: Jun 99	FY00: Jun 00

Installation Schedule	PY	FY 99				FY 00				FY 01				FY 02				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Input			3	3	3	3	3	3	3	3								24
Output				3	3	3	3	3	3	3	3							24

Modification Title and No: AN/TPS-75 RADAR Identify Friend or Foe (IFF) Interrogator Replacement, MOD # M00018

Models of Systems Affected: Comm-Electronics - GTACS - AN/TPS-75

Description/Justification: This modification replaces the current UPX-23 Interrogator with a modern, more reliable and supportable UPX-27. Two UPX-27's are required per Radar plus six backup asset inventory items. The poor reliability of the UPX-23's Mode 4 military channel has limited the ability of the AN/TPS-75 Radar to support its mission. The US Navy stopped providing Depot level support for the UPX-23 in 1995. The UPX-23 supportability is now impacted by diminishing manufacturing resources. The UPX-27 provides a modern interrogator with supportable circuit cards.

Development Status/Major Development Milestones: Contract award: OCT 98, CCB: FEB 98, PR: FEB 98

Financial Plan: ($ in Millions)

	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment									20	1.0	3.0	1.5					50	2.5
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (Kits)																		
(FY99) Eqpt (20 Kits)									20	.0							20	
(FY00) Eqpt (30 Kits)											30	0					30	
(FY01) Eqpt (Kits)																		
(FY02) Eqpt (Kits)																		
Total Installation Cost																		
Total Procurement Cost									20	1.0	30	1.5					50	2.5

Method of Implementation: Organic
Contract Dates: Administrative Lead Time: 9 Months Production Lead Time: 8 Months
Delivery Dates: FY96: FY97: FY98: FY99: Oct 98 FY00: Oct 99
FY96: FY97: FY98: FY99: May 99 FY00: May 00

Installation Schedule

	PY	FY 97				FY 98				FY 99				FY 00				FY 01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input												20				30						50
Output													20				30					50

Modification Title and No: AN/TPN-19 Landing Control Upgrade, B7165

Models of Systems Affected: Comm-Electronics - Air Traffic Control and Landing Systems (ATCALS)

Description/Justification: The AN/TPN-19 is a transportable Landing Control Central (LCC) used to control and land aircraft at forward operating airfields consisting of four separate shelters. One shelter houses the AN/TPN-24 Airport Surveillance Radar with digital moving target indicators which provide coverage for a 60 NMI area around an airfield. A second shelter houses the AN/TPN-25 Precision Approach radar which provides final approach service under instrument flight rules from 15 nautical miles (NM) to runway touch down using phased array pencil beam technology. The AN/TPN-19 also has an expandable operations shelters that accommodate seven air traffic controllers and two assistant positions. The shelter is transported as two items and assembled as one large shelter at deployed locations. This modification will replace four 20-plus year old AN/TPN-24 and AN/TPN-25 structually weak shelters with new ISO standard shelters to handle the high weight load of the antennas and boom assembly. This will correct serious mechanical/electronic alignment problems during system set-up and operation. The modification will be integrated into the AN/TPN-19 depot repair schedule. The total requirement is for 8 systems. FY96 funds covered non recurring costs, data, 12 shelters and modifications to 6 systems. FY98 funds complete shelter purchases 2 each and modifications to remaining 2 systems.

Development Status/Major Development Milestones: CCB Dec 95; Specification and SOW completion Dec 95; RFP Feb 96

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		T C		TOT AL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment			6	6.0			2	1.4									8	7.4	
Equipment Nonrecurring				0.8														0.8	
Engineering Change Orders																			
Data				0.3														0.3	
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (6 Kits)							2										6		
(FY97) Eqpt (0 Kits)									6								2		
(FY98) Eqpt (2 Kits)																			
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
(FY02) Eqpt (Kits)																			
Total Installation Cost							2		6								8		Depot Installed
Total Procurement Cost			6	7.1			2	1.4									14	8.5	

Method of Implementation: DoD Organic — Administrative Lead Time: 3 Months — Production Lead Time: 9 Months

Contract Dates	FY96: Mar 97	FY97:	FY98: Oct 97	FY99:	
Delivery Dates	FY96: Aug 97	FY97:	FY98: Jul 98	FY99:	

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				FY 01				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TOTAL
Input																						
Output																						

Modification Title and No: AN/TRN-41Antenna and Transmitter Upgrade, B7167

Models of Systems Affected: Comm-Electronics - Air Traffic Control and Landing Systems (ATCALS)

Description/Justification: The AN/TRN-41 is a lightweight, portable navigation aid designed to provide limited navigation capability or aircraft operations in austere locations during degraded weather conditions. Extremely portable, this is the only equipment available to provide ground based navigation capability in the initial stages of an operation. This modification corrects existing deficiencies by replacing the antenna with an all-band antenna allowing the equipment to be sited in more varied locations world-wide. It also increases power output which helps ensure coverage at required operating distances. Finally, the modification provides a self-monitoring capability for the azimuth signal allowing the equipment to be certified for use in the National Airspace system and meet civil interoperability requirements. The total requirement is for 60 kits, 50 Ea in FY97 and 10 Ea in FY98.

Development Status/Major Development Milestones: CCB Feb 96; Specification and SOO completion May 96; RFP Jul 96

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment					50	5.0	10	1.0									60	6.0	
Equipment Nonrecurring						2.0												2.0	
Engineering Change Orders																			
Data						0.3												0.3	
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (50 Kits)					1		49										50		User installed.
(FY98) Eqpt (10 Kits)							10										10		User installed.
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
(FY 02) Eqpt (Kits)																			
Total Installation Cost					1		59										60		User installed.
Total Procurement Cost					50	7.3	10	1.0									60	8.3	

Method of Implementation: User installed — Administrative Lead Time: 10 Months — Production Lead Time: 8 Months

Contract Dates	FY96:	FY97: Nov 96	FY98: Nov 97	FY99:
Delivery Dates	FY96:	FY97: Jul 97	FY98: Jul 98	FY99:

Installation Schedule	PY	FY 96				FY 97				FY 98				FY 99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																		
Output																		

Modification Title and No: WSR-88D (NEXRAD) Transmitter Upgrade, 94-003A

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification will field a rotary, uninteruptible, transition power source (TPS) to condition commercial and generator power and provide a stable ride-through when transferring between the two power sources. This modification will significantly reduce maintenance costs and improve reliability to enable the system to meet its required operational availability rate of 96 percent as one of the major causes of transmitter component failures is power fluctuations which occur due to spike in commercial power and during the transition to and from generator power. Funding bought twelve kits in FY97, and will buy twelve kits in FY98, and four kits in FY99.

Development Status/Major Development Milestones: ECP was approved by the Program Management Council in Feb 96

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment					12	1.9	12	1.8	4	.5							28	4.2	
Equipment Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (12 Kits)					12												12		User Installed
(FY98) Eqpt (12 Kits)							12										12		User Installed
(FY99) Eqpt (4 Kits)									4								4		User Installed
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
Total Installation Cost					12		12		4								28		User Installed
Total Procurement Cost					12	1.9	12	1.8	4	.5							28	4.2	

Method of Installation: User Install — Administrative Lead Time: 1 Month — Production Lead Time: 7 Months

Contract Dates — FY97: Nov 96 — FY98: Oct 97 — FY99: Oct 98

Delivery Dates — FY97: Jun 97 — FY98: May 98 — FY99: May 99

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																		
Output																		

EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Air Force Global Weather Center (AFGWC) Centralized Database Management System Upgrade, 94-008

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast
Description/Justification: The CDMS Upgrade will provide a processing, storage, and connectivity upgrade to the current AFGWC CDMS. The current system (running at less than the full loading of databases it must support) is unable to meet all established production timelines. AFGWC is experiencing production impact due to the relatively slow response time of the current 386 based system and also due to the added loading of development maintenance testing. Combat and contingency support will be significantly degraded without upgrade. Near future requirements associated with Theater Battle Management, and Regionalization transition will not be supportable. AFGWC will be unable to continue migration toward an open systems environment. Without this upgrade AFGWC lacks the architecture necessary to support "smart warrior pull" of selected data sets. FY98 funds procure a complete modification kit.

Development Status/Major Development Milestones: Contract Awd Dec 97, Delivery Mar 98

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							1	1.6									1	1.6	
Equipment Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support								0.9										0.9	
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (1 Kits)							1										1		User Installed
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
Total Installation Cost							1										1		User Installed
Total Procurement Cost							1	2.5									1	2.5	

Method of Installation: User installed. Administrative Lead Time: 1 Month Production Lead Time: 3 Months

Contract Dates FY97: Dec 97 FY98: FY99: FY00:

Delivery Dates FY97: Mar 98 FY98: FY99: FY00:

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																		
Output																		

Modification Title and No: Air Force Global Weather Center (AFGWC) Dial-In Subsystem (AFDIS) / Air Force Weather Information Network (AFWIN), 95-001

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: AFDIS/AFWIN is a source of weather information for DoD operations. The AFDIS/AFWIN computers run as subsystems to the Satellite Data Handling System (SDHS). The SDHS computers will undergo an upgrade in FY97. In order to lower maintenance costs, keep up with technology advancements, and improve warfighter driven requirements, the AFDIS/AFWIN computers will require new hardware and software to match the SDHS upgrade, and provide a backup capability, and an off-line testbed. In order to support evolving DoD warfighter requirements, AFDIS/AFWIN software require new capabilities. These capabilities include the ability to send and receive information to/from the Automated Weather Network, allow AFDIS/AFWIN to automatically send weather data to users, provide a Secure AFWIN, provide raw gridded data, and provide the capability to overlay various weather products. FY98 funds will procure the complete mod using a single integrating contractor.

Development Status/Major Development Milestones: CCB DEC 94 amended JUN 95, RFP OCT 97, Contract Award JAN 98

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							1	.8									1	.8	
Equipment Nonrecurring								4.6										4.6	
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (Kits)							1										1		User Installed
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
Total Installation Cost							1										1		User Installed
Total Procurement Cost							1	5.4									1	5.4	

Method of Installation: User installed. Administrative Lead Time: 3 Months. Production Lead Time: 2 Months

Contract Dates FY97: FY98: Jan 98 FY99: FY00:

Delivery Dates FY97: FY98: Mar 98 FY99: FY00:

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input							1											1
Output							1											1

Modification Title and No: WSR-88D Radar Data Acquisition (RDA) Group Migration to Open System, 94-003B

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WSR-88D transmitter is experiencing a higher than expected failure rate. This mod (94-003B) will take the proprietary software and hardware of the RDA and migrate them to open system standards. This will result in decreased retrofit costs since current single source components would be replaced with open standard hardware available from multiple vendors. In addition, software maintenance would be made more efficient and cost-effective. Vendor specific code would be replaced with modular code written to open system standards. Non-recurring equipment costs include non-recurring engineering (H/W and S/W). Kit funding will buy 1 first article kit in FY99, 10 kits in FY00 (including two for training systems at Keesler, AFB, MS), and 18 kits in FY01 (including one trainer for Keesler AFB).

Development Status/Major Development Milestones: PDR: 3QTR FY99; CDR: 1QTR FY00, Limited production contract: 3 QTR FY99; FSP contract: 2QTR FY00.

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment									1	0.1	8	0.8	17	1.6			26	2.6	
Equipment Nonrecurring										1.8		0.6		0.1				2.5	
Engineering Change Orders											2	0.2	1	0.1			3	0.3	
Data										0.1		0.1						0.2	
Training Equipment																			
Support Equipment										0.2		0.2		0.2				0.6	
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (Kits)																			
(FY99) Eqpt (1 Kits)									1	*							1	*	* LESS THAN 50K
(FY00) Eqpt (10 Kits)											10	*					10	*	* LESS THAN 50K
(FY01) Eqpt (18 Kits)													14	0.1	4	*	18	0.1	* LESS THAN 50K
Total Installation Cost									1	*	10	*	14	0.1	4		29	0.1	* LESS THAN 50K
Total Procurement Cost									1	2.2		1.9		2.1			29	6.2	

Method of Installation: Depot Install — Administrative Lead Time: 1 Months. — Production Lead Time: 5 Months

Contract Dates — FY97: — FY98: — FY99: Apr 99 — FY00: Jan 00 — FY01: Oct 00

Delivery Dates — FY97: — FY98: — FY99: Sep 99 — FY00: Jun 00 — FY01: Mar 01

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													1			5	5		5	5	4	4				29
Output													1			5	5		5	5	4	4				29

Modification Title and No: Solar Electro-Optical Network (SEON) Solar Maximum (SSM) Modification, 96-001

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The SSM modification finances critical elements of an integration effort meshing upgraded/new SEON components into a more capable, reliable, cost effective, and automated network of observing sites. Provides AF standard workstations for the SEON Sweep Frequency Radiometer (SFIR), Radio Solar Telescope Network (RSTN), and Solar Observing Optical Network (SOON). Provides automation of these integrated systems to allow remote operation from a centralized forecasting facility. Failure to procure this system will profoundly impact the ability of Space Forecast Center to detect and analyze solar flares for potential impacts to military communications, radar effectiveness, navigation, and other warfighting capabilities. FY98 funding will pay for nonrecurring integration development effort of SEON components, system and communications interfaces, standard AF workstations, software rehost, and RSTN SFIR automation. FY99 funding will pay for contractor installation of 1 kit. FY00 funding will pay for contractor installation of 3 more kits. The resulting kits will be contractor installed as turn-key systems.

Development Status/Major Development Milestones: RFP: 1QTR FY98, Source Selection 2QTR FY98, PDR: TBD, CDR: TBD, IOC: 4QTR FY99, FOC: 3QTR FY00

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							4	1.8									4	1.8	
Equipment Nonrecurring								2.6										2.6	
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other								0.4										0.4	
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (4 Kits)									1	*	3	0.2						0.2	* LESS THAN 50K
(FY99) Eqpt (Kits)																			
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
Total Installation Cost									1	*	3	0.2					4	0.2	* LESS THAN 50K
Total Procurement Cost							4	4.8	1	*	3	0.2					4	5.0	* LESS THAN 50K

Method of Installation: Contractor Installed. Administrative Lead Time: 3 Months. Production Lead Time: 17 Months

Contract Dates FY97: FY98: Apr 98 FY99: FY00:

Delivery Dates FY97: FY98: Jun 99 FY99: FY00:

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													1	1	1	1		4
Output														1	1	1	1	4

EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Radio Solar Telescope Network (RSTN) Solar Radio Burst Locator (SRBL), 93-005

Models of Systems Affected: Comm-Electronics - Weather Observation and Forecast AN/FRR-95 Radio Solar Telescope Network (RSTN)

Description/Justification: The RSTN complements the companion Solar Observing Optical Network (SOON) in accurately defining the intensity and location of solar flare activity on the solar disk. The SRBL is required to replace components and improve capabilities of the aged and degraded RSTN which is undergoing a series of modifications to sustain it through solar maximum. SRBL will provide location of solar flare-associated radio bursts and will be fitted with an expanded frequency range, message generation and transmission, and unattended operations. The SRBL program sustainment engineering and modification for production unit purchases capabilities which if not funded will degrade the warfighter's ability to discriminate between solar induced effects and electronic jamming on missile radars; and degrades ability to provide warning of lethal and damaging radiation to high altitude aircraft, manned space activities, satellite operations, and space surveillance. FY98 funding will pay for 1 SRBL production unit. FY99 funding will pay for 3 SRBL production units. FY00 funding pays for contractor installation of the remaining 3 production SRBL kits.

Development Status/Major Development Milestones: Release production RFP 1QTR FY98, Source Selection 2QTR FY98, Contract Award 2QTR FY98, PDR TBD, CDR TBD, IOC 2Q FY99, FOC 4Q FY00

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment							1	1.8	3	5.1							4	6.9
Equipment Nonrecurring								0.2		0.1								0.4
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other								0.2		0.2								0.4
Interim Contractor Support																		
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (1 Kits)									1	0.1							1	0.1
(FY99) Eqpt (3 Kits)											3	0.3					3	0.3
(FY00) Eqpt (Kits)																		
(FY01) Eqpt (Kits)																		
Total Installation Cost									1	0.1	3	0.3					4	0.4
Total Procurement Cost							1	2.2	3	5.5							4	7.7

Method of Installation: Contractor Installed. Administrative Lead Time: 3 Months. Production Lead Time: 12 Months

Contract Dates FY97: FY98: Jan 98 FY99: Jan 99 FY00:

Delivery Dates FY97: FY98: Jan 99 FY99: Jan 00 FY00:

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input											1			1	1	1		4
Output											1			1	1	1		4

Modification Title and No: Tactical Forecast System (TFS)/Automated Weather Distribution System (AWDS) - TFS/AWDS Merged System, TFS-2000, 95-010

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: Air Force Weather Service (AFWS) developed the Automated Weather Distribution System (AWDS) for peacetime fixed base weather support and the Distribution System (AWDS) for peacetime fixed base weather support and the closely related Tactical AWDS (TAWDS) for tactical weather support. More recently AFW developed the Tactical Forecast System (TFS) to replace TAWDS; therefore, the older AWDS will be merged with the new TFS to form a new baseline, TFS-2000. To accomplish this merger, AWDS software must be merged with the TFS to form a single baseline and hosted on a common platform. The merged systems will have similar physical architecture and identical functionality. Benefits include reduced support and training costs and greater wartime effectiveness. The kits will be user installed. Hardware/software will be kitted as TCTOs. The hardware consists of USAF standard workstation equipment. Training sites (Keesler and CWF) will receive the same base kit as all other sites. FY98 funds procure 20 kits and supports hardware/software integration. FY99 funds procure 361 kits.

Development Status/Major Development Milestones: Contract Award: Mar 98

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment							20	0.1	361	1.1							381	1.1
Equipment Nonrecurring								6.3										6.3
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other								0.4		0.6								
Interim Contractor Support																		1.0
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (20 Kits)																		
(FY99) Eqpt (361 Kits)																		
(FY00) Eqpt (Kits)																		
(FY01) Eqpt (Kits)																		
Total Installation Cost																		
Total Procurement Cost								6.8		1.7							381	8.5

Method of Installation: User Installed — Administrative Lead Time: 3 Months. — Production Lead Time: 6 Months

Contract Dates — FY97: — FY98: Mar 98 — FY99: Oct 98 — FY00:

Delivery Dates — FY97: — FY98: Sep 98 — FY99: Mar 99 — FY00:

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																		
Output																		

EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: AN/FMH-2 Automated Weather Distribution System (AWDS) Functional Areas, 93-008

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification is required to upgrade the remaining AWDS peripheral hardware to standard PCs. Benefits include greatly reduced support costs by eliminating costly CLS contract and improved functionality. The contract will be awarded in Jan 98. This modification buys 40 kits in FY98, 638 kits in FY99, and 1714 kits in FY00. The FY98 "Equipment nonrecurring" funds are for software/hardware integration. Hardware/software will be kitted as TCTO. Training sites (Keesler and CWF) will receive the same basic kit as all other sites.

Development Status/Major Development Milestones: Contract Award: Jan 98

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment							40	*	638	0.6	1714	1.7					2392	2.4
Equipment Nonrecurring								0.7										0.7
Engineering Change Orders																		
Data								*										* * Less Than $50K
Training Equipment																		
Support Equipment																		
Other								0.2		0.2		0.2						0.6
Interim Contractor Support																		
Installation of Hardware															*			
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (40 Kits)																		
(FY99) Eqpt (638 Kits)																		
(FY00) Eqpt (1714 Kits)																		
(FY01) Eqpt (Kits)																		
Total Installation Cost							10	0.9	648	0.8	1734	1.9					2392	3.7
Total Procurement Cost																		

Method of Installation: User Installed — Administrative Lead Time: 1 Months. — Production Lead Time: 8 Months

Contract Dates — FY97: — FY98: Jan 98 — FY99: Oct 98 — FY00: Oct 99

Delivery Dates — FY97: — FY98: Sep 98 — FY99: Mar 99 — FY00: Nov 99

Installation Schedule	PY	FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																		
Output																		

Modification Title and No: Air Force Global Weather Center (AFGWC) Weather Information Processing System (WIPS) Upgrade, 95-003

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast
Description/Justification: The WIPS ingests and processes over 140,000 time-sensitive weather reports each day. These reports, when decoded, validated and processed, form the analyses of current weather that become the foundation of virtually every environmental product issued by AFGWC. This program will upgrade the hardware and software in order to meet future operational requirements to include the Theater Battlefield Management (TBM) data flow. FY99 funds and FY00 funds each procure one kit respectively, hardware replacement elements (equipment nonrecurring), and contractor installation/software rehost.

Development Status/Major Development Milestones: Contract Award: Jan 99

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment									1	2.0	1	1.7					2	3.7	
Equipment Nonrecurring										3.8								3.8	
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other										0.2		0.2						0.4	
Interim Contractor Support												*						*	* LESS THAN 50K
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (Kits)																			
(FY99) Eqpt (1 Kits)									1	*							1	*	* LESS THAN 50K
(FY00) Eqpt (1 Kits)											1	*					1	*	* LESS THAN 50K
(FY01) Eqpt (Kits)																			
Total Installation Cost									1	*	1	*					2	0.1	
Total Procurement Cost									1	6.0	1	2.0					2	8.0	

Method of Installation: Contractor Installed. Administrative Lead Time: 3 Months. Production Lead Time: 3 Months

Contract Dates		FY97:	FY98:	FY99: Jan 99	FY00: Jan 00
Delivery Dates	PY	FY97:	FY98:	FY99: Apr 99	FY00: Apr 00

Installation Schedule	FY 97				FY 98				FY 99				FY 00				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input											1				1		2
Output											1				1		2

EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: WSR-88D Principle User Processor (PUP) Replacement - Open System Radar Product Generator (RPG) Migration, 94-004A

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. Both components rely on proprietary software and hardware leading to unnecessarily high hardware and software maintenance/repair costs. This modification will migrate the RPG software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system software, and provide a capability for direct interface to current and planned weather processing and display systems (AWDS and MOC). FY98 buys 1 kit and FY99 buys 8 kits, and FY00 completes the modification procurement with 20 kits.

Development Status/Major Development Milestones: CCB approval of CCR: Jun 96, PDR: 3QTR FY97; CDR: 1QTR FY98, FSP Contract: 1QTR FY99

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							1	*	8	0.3	19	0.9					29	1.5	* LESS THAN 50K
Equipment Nonrecurring								0.8		0.4								1.2	
Engineering Change Orders																			
Data								*		0.2								0.2	* LESS THAN 50K
Training Equipment																			
Support Equipment																			
Other								0.1		0.1		0.1						0.3	
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (1 Kits)							1	*									1	*	* LESS THAN 50K
(FY99) Eqpt (8 Kits)									8	*							8	*	* LESS THAN 50K
(FY00) Eqpt (20 Kits)											20	0.1					20	0.1	* LESS THAN 50K
(FY01) Eqpt (Kits)																			
Total Installation Cost							1	*	8	*	20	0.1					29	0.1	* LESS THAN 50K
Total Procurement Cost							1	1.0	8	1.1	20	1.2					29	3.3	

Method of Installation: Depot Installed. Administrative Lead Time: 1 Months. Production Lead Time: 6 Months

Contract Dates FY98: Mar 98 FY99: Dec 98 FY00: Jan 00

Delivery Dates FY98: Sep 98 FY99: Jun 98 FY00: May 00

Installation Schedule	PY	FY 98				FY 99				FY 00				FY 01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input					1			4	4	5	5	5	5					29
Output					1			4	4	5	5	5	5					29

Modification Title and No: WSR-88D Principle User Processor (PUP) Replacement, 94-004B

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The Principle User Processor (PUP) workstation is the primary vehicle for displaying NEXRAD data. The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. Both components rely on proprietary software and hardware leading to unnecessarily high hardware and software maintenance/repair costs. This modification will migrate the PUP software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system PUP will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system baseline, and provide a capability for direct interface to current and planned weather processing and display systems (AWDS and MOC). FY98 funds procure 1 kit, FY99 funds procure 45 kits, and FY00 funds procure 66 kits, FY01 funds complete procurement with 40 kits.

Development Status/Major Development Milestones: CCR submitted Aug 96. CCB approval of CCR Sep 96.

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							1	*	45	.9	66	1.3	40	0.8			152	3.0	* LESS THAN 50K
Equipment Nonrecurring								0.5		0.5		0.1						1.1	
Engineering Change Orders																			
Data								*		0.1								0.1	* LESS THAN 50K
Training Equipment																			
Support Equipment																			
Other								0.1		0.1		0.1		0.1				0.4	
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (1 Kits)							1	*									1	*	* LESS THAN 50K
(FY99) Eqpt (45 Kits)									45	0.2							45	0.2	
(FY00) Eqpt (66 Kits)											66	0.4					66	0.4	
(FY01) Eqpt (40 Kits)													40	0.2			40	0.2	
Total Installation Cost							1	*	45	0.2	66	0.4	40	0.2			152	0.8	
Total Procurement Cost							1	0.6	45	1.8	66	2.0	40	1.1			152	5.5	

Method of Installation: Depot Installed. Administrative Lead Time: 1 Months. Production Lead Time: 6 Months

Contract Dates FY97: FY98: Feb 98 FY99: Dec 98 FY00: Jan 00 FY01: Jan 01

Delivery Dates FY97: FY98: Aug 98 FY99: Jun 99 FY00: May 00 FY01: May 01

Installation Schedule	PY	FY 98				FY 99				FY 00				FY 01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input					1			22	23			33	33			20	20	152
Output					1			22	23			33	33			20	20	152

Modification Title and No: Tactical Meteorological (TACMET) Observing Equipment Upgrade, 95-011

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification provides the means to allow Combat Command and Control Elements automatic access to current and representative surface weather observations. It provides the required elements of cloud height, surface visibility, present weather, wind speed and direction, wind gusts, variable wind direction, temperature, dew point, relative humidity, barometric pressure (sea-level pressure and station pressure), altimeter setting, density altitude, and precipitation rate and amount. Additional sensors provide soil temperature, soil moisture, nighttime illumination, and lightning detection. The existing TACMET observing systems are not capable of measuring all required parameters, are error prone, and are too manpower intensive to operate efficiently. Additionally, these systems are not interoperable with customer C4I systems. FY98 funds procure 32kits, FY99 funds procure 40 kits, and FY00 funds procure 234 kits. Kits will be user installed.

Development Status/Major Development Milestones: Contract Awd: Feb 98

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment							32	1.0	40	1.2	234	5.9					306	8.0
Equipment Nonrecurring																		
Engineering Change Orders																		
Data								*										* *Less Than $50K
Training Equipment																		
Support Equipment																		
Other								0.7		0.4		0.2						1.3
Interim Contractor Support																		
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (32 Kits)							32										32	
(FY99) Eqpt (40 Kits)									40								40	
(FY00) Eqpt (234 Kits)											234						234	
(FY01) Eqpt (Kits)																		
Total Installation Cost																		
Total Procurement Cost							32	1.7	40	1.6	234	6.1					306	9.3

Method of Installation: User Installed. Administrative Lead Time: 6 Months. Production Lead Time: 6 Months

Contract Dates FY96: FY97: FY98: Feb 98 FY99: Oct 98 FY00: Oct 99

Delivery Dates FY96: FY97: FY98: Aug 98 FY99: Nov 98 FY00: Nov 99

Installation Schedule	PY	FY 96				FY 97				FY 98				FY 99				FY 00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													32	10	10	10	10	50	65	69	50	306
Output													32	10	10	10	10	50	65	69	50	306

Modification Title and No: AN/FMQ-7 Solar Observing Optical Network Enhancement to Improved Solar Observing Optical Network (ISOON), 96-031

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification retrofits the 1960's technology optical telescope to decrease maintenance costs and to keep the system operationally effective as various components of the current system are becoming unsupportable. The SOON is the only means of providing real time reporting of solar flare activity. The Space Forecast Center requires the ISOON's accurate data as input to their forecast models. Accurate solar activity warnings are vital to effective space missions. Any decrease in accuracy will degrade support to the war fighter. FY99 funding will procure 1 ISOON production unit, FY00 funds procure 3 ISOON production units.

Development Status/Major Development Milestones: Release production RFP: 2QTR FY99, Source Selection: 2QTR FY99, Contract Awd: 3QTR FY99, PDR: TBD, CDR: TBD, IOC: 4QTR FY01, FOC: 3QTR FY02

Financial Plan: ($ in Millions)	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment									1	1.0	3	3.0					4	4.0
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support										0.3		0.4						0.7
Installation of Hardware																		
(PY) Eqpt (Kits)																		
(FY96) Eqpt (Kits)																		
(FY97) Eqpt (Kits)																		
(FY98) Eqpt (Kits)																		
(FY99) Eqpt (1 Kits)													1	0.1			1	0.1
(FY00) Eqpt (3 Kits)															3	0.3	3	0.3
(FY01) Eqpt (Kits)													1	0.1	3	0.3	4	0.4
Total Installation Cost									1	1.3	3	3.4		0.1		0.3	4	5.1
Total Procurement Cost																		

Method of Installation: Contractor Installed. Administrative Lead Time: Months. Production Lead Time: 21 Months

Contract Dates	FY96:	FY97:	FY98:	FY99: Apr 99	FY00: Apr 00
Delivery Dates	FY96:	FY97:	FY98:	FY99: Jan 01	FY00: Jan 02

Installation Schedule	PY	FY 98				FY 99				FY 00				FY 01				FY 02				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input														1				2	1		4
Output														1			1	1	1		4

Modification Title and No: Tech Control Upgrade, Part 2 (Matrix Switches) (Mod # S529382)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: An upgrade is required to replace the existing Bytex AS 240 Time Division Multiplexors which are slow, becoming unsupportable, and inadequate to support the necessary circuit types (T-1, EIA-530, or LAN). Growth capacity is limited and the design is a "blocking type switch." The new switch will be "non-blocking" and will be able to handle the additional circuit growth capacity. Overall approach will optimize a distributed architecture to the maximum extent possible while ensuring compatibility with current Technical Control systems and processors. FY98 funding buys one suite for the SWSC (testing and development) and FY99 funding buys three for the operational site. Overall impact of not funding this effort is decreased message flow handling space, air, and missile warning traffic.

Development Status/Major Development Milestones: CCB Approval: Mar 96, Evaluation complete: Jul 97. Contract Award: Jan 98. Architecture selected: Apr 98. SWSC Install: Jul 98.

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		FY01		FY02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
PROCUREMENT:																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment							1	1.0	3	3.0							4	4.0	
Equipment Nonrecurring								2.1		*								2.2	* Less Than 50K
Engineering Change Orders																			
Data								0.3		0.2								0.5	
Training Equipment																			
Support Equipment																			
Other								0.5										0.5	
Interim Contractor Support								*		0.2								0.3	* Less Than 50K
Installation of Hardware																			
(PY) Eqpt (Kits)																			
(FY96) Eqpt (Kits)																			
(FY97) Eqpt (Kits)																			
(FY98) Eqpt (1 Kits)							1	0.1									1	0.1	
(FY99) Eqpt (3 Kits)									3	0.5							3	0.5	
(FY00) Eqpt (Kits)																			
(FY01) Eqpt (Kits)																			
(FY02) Eqpt (Kits)																			
Total Installation Cost							1	0.1	3	0.5							4	0.6	
Total Procurement Cost							1	4.0	3	3.9							4	7.9	

Method of Implementation: Contractor — Administrative Lead Time: 3 months — Production Lead Time: 6 Months

Contract Dates:	FY96:	FY97:	FY98: Jan 98	FY99: Oct 98	FY00:	FY01:
Delivery Date:	FY96:	FY97:	FY98: Jul 98	FY99: Apr 99	FY00:	FY01:

Installation Schedule:	PY	FY96				FY97				FY98				FY99				FY00				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input													1			1	2					4
Output													1			1	2					4

Modification Title and No: SCIS VAX FT410 (Control Number S604620)
Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The VAX FT410 is forward processing equipment that provides secure voice and data link to and from sensors, forward users and correlation centers. The FT410 is no longer manufactured and support will end in FY00. Replacement is required to ensure uninterrupted secure communications for the missile warning systems. Replacement will also ensure common operating environment compliance. The nation's missile warning system is dependent upon this secure communications system to provide the necessary data from sensors to the forward users and the correlation centers. FY99 funding is required to purchase 8 equipment suites, FY01 purchases 6 equipment suites.

Development Status/Major Development Milestones: Requirement validated Feb 96. Study complete Jul 97. Contract Award Jan 99. Architecture Selected Feb 99.

Financial Plan: ($ in Millions)

	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
PROCUREMENT																		
Kit Quantity																		
Installation Kit																		
Installation Kit Nonrecurring																		
Equipment									8	1.4	8	1.4	6	1.1			22	3.9
Equipment Nonrecurring										0.4								0.4
Engineering Change Order																		
Data										0.1								0.1
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support										0.1		0.1		0.1				0.3
Installation of Hardware																		
(PY) Equipt (0 Kit)																		
(FY(95) Equipt (0 Kits)																		
(FY(96) Equipt (0 Kits)																		
(FY(97) Equipt (0 Kits)																		
(FY(98) Equipt (0 Kits)																		
(FY(99) Equipt (8 Kits)									8	0.4							8	0.4
(FY(00) Equipt (8 Kits)											8	0.4					8	0.4
(FY(01) Equipt (6 Kits)													6	0.3			6	0.3
(FY02) Eqpt (Kits)																		
Total Installation Cost									8	0.4	8	0.4	6	0.3			22	1.1
Total Procurement Costs									8	2.4	8	1.9	6	1.5			22	5.7

Method of Implementation: Contractor — Administrative Lead Time: 3 months — Production Lead Time: 4 Months
Contract Dates: FY98: — FY99: Jan 99 — FY00: Jan 00 — FY01: Jan 01
Delivery Date: FY98: — FY99: May 99 — FY00: Jun 00 — FY01: Jun 01

Installation Schedule:	PY	FY97				FY98				FY99				FY00				FY01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input												4	4			4	4			3	3	22
Output												4	4			4	4			3	3	22

EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Video Display System (VDS) Monitor Replacement (S604628)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The VDS monitors are becoming unsupportable because they are no longer manufactured. Items are being replaced by spares as they break and the inventory is running low. This system will incur increased maintenance cost and will not be able to support the CMC mission without this modification. The current HAVE DUNGEON effort, a technical survey of available monitor capabilities, multi-display options for each screen, and the resulting software and display characteristic changes will help direct the final solution set as it applies to Common Operating Environment (COE) and the requirements of the warning display monitors. FY99 funding purchases 1 development suite and 36 VDS systems; FY00 and FY01funds purchase and install 16 and 18 additional operational monitors.

Development Status/Major Development Milestones: Requirement validated Mar 96. Study complete Jul 97. Contract Award Jan 99.

Financial Plan: ($ in Millions)

	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
PROCUREMENT																		
Kit Quantity																		
Installation Kit																		
Installation Kit Nonrecurring																		
Equipment									36	3.2	16	1.4	18	1.6			70	6.3
Equipment Nonrecurring										0.6		0.2		0.1				0.9
Engineering Change Order																		
Data										0.2								0.2
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support										0.2		0.2		0.1				0.5
Installation of Hardware																		
(PY) Equipt (0 Kit)																		
(FY(95) Equipt (0 Kits)																		
(FY(96) Equipt (0 Kits)																		
(FY(97) Equipt (0 Kits)																		
(FY(98) Equipt (0 Kits)																		
(FY(99) Equipt (36 Kits)									36	0.4							36	0.4
(FY(00) Equipt (16 Kits)											16	0.2					16	0.2
(FY(01) Equipt (18 Kits)													18	0.2			18	0.2
(FY02) Equipt (0 Kits)																		0.0
Total Installation Cost									36	0.4	16	0.2	18	0.2			70	0.7
Total Procurement Costs									36	4.6	16	2.0	18	1.9			70	8.4

Method of Implementation: Contractor — Administrative Lead Time: 3 months — Production Lead Time: 4 Months

Contract Dates: FY96: FY97: FY98: FY99: Jan 99 FY00: Oct 99 FY01: Oct 00

Delivery Date: FY96: FY97: FY98: FY99: Apr 99 FY00: Jan 00 FY01: Jan 01

Installation Schedule:	PY	FY97				FY98				FY99				FY00				FY01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input												18	18		8	8			10	8			70
Output												18	18		8	8			10	8			70

Modification Title and No: Electronic Warfare Workstation (S604622)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The POWER system supports threat determination and assessment at the TS level for the Space Control Center. The current capability is hosted on a platform that is not cost effective. This platform must be upgraded to meet the Reliability, maintainability, and Availability (RMA) requirements consistent with the space control mission. Without this upgrade, the accuracy and completeness of the electronic warfare and radio frequency interference capability will be hampered. The overall impact includes the loss of discriminating space threats and the determination of satellite degradation. Additionally, the radio frequency interference processing will be hampered and limited to after-the-fact analysis using inaccurate and incomplete data. FY98 funds procure 2 kits, FY99 funds procure 1 kit.

Development Status/Major Development Milestones: Requirement validated Feb 96. Study complete Jul 97. Contract Award Jan 99. Architecture Selected Feb 99.

Financial Plan: ($ in Millions)

	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E: None																			
PROCUREMENT																			
Kit Quantity																			
Installation Kit																			
Installation Kit Nonrecurring																			
Equipment							2	0.3	1	0.1							3	0.4	
Equipment Nonrecurring								0.2										0.2	
Engineering Change Order																		*	* Less than $50K
Data								*											
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Equipt (0 Kit)																			
(FY(95) Equipt (0 Kits)																			
(FY(96) Equipt (0 Kits)																			
(FY(97) Equipt (0 Kits)																			
(FY(98) Equipt (2 Kits)							2	0.1									2	0.1	
(FY(99) Equipt (1 Kits)									1	*							1	*	* Less than $50K
(FY(00) Equipt (0 Kits)																			
(FY(01) Equipt (0 Kits)																			
(FY02) Equipt (0 Kits)																			
Total Installation Cost							2	0.1	1	*							3	0.1	
Total Procurement Costs							2	0.6	1	0.1							3	0.7	

Method of Implementation: Contractor — Administrative Lead Time: 3 months — Production Lead Time: 3 Months

Contract Dates:	FY96:	FY97:	FY98: Jan 98	FY99: Jan 99	FY00:	
Delivery Date:	FY96:	FY97:	FY98: Apr 98	FY99: Apr 99	FY00:	

Installation Schedule:	PY	FY97				FY98				FY99				FY00				FY01				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input								2				1										1
Output								2				1										3

Modification Title and No: BMEWS - Clear Alaska Radar Upgrade

Models of Systems Affected: Ballistics Missile Early Warning System (BMEWS)

Description/Justification: The Clear Radar Upgrade (CRU) will be upgrading the existing Ballistic Missile Warning System (BMEWS) radar located at Clear Air Station (CAS), Alaska. The existing radar is experiencing high O&M costs ($45M/year) and has several technical deficiencies. CRU will correct deficiencies and reduce O&M costs by replacing the existing mechanical radar with a Solid State Phased Array Radar (SSPAR). The SSPAR will be built using existing array faces and equipment from the PAVE PAWS radars at Robins AFB, GA and Eldorado TX locations. This approach will allow for the recall of Robins and Eldorado systems and for the continued use of the power plant at CAS. The program is considered low technical risk due to the fact the BMEWS-Thule Greenland Greenland SSPAR was built with the same methodology, except for the reuse of array faces and equipment strings. Lack of funds to support this modification will result in more outages from failed obsolete components, increasing O&M costs, deficiencies and inability to support the National Missile Defense (NMD) mission. FY98 funds procures the hardware suite to support the radar facility. FY99 funds procure the Face 1 equipment and supporting hardware string. FY00 funds procure Face 2 equipment and supporting hardware string.

Development Status/Major Development Milestones: Approval received Mar 96. Evaluation complete: Jul 97. Contract Award: Jan 98. Architecture selected: Apr 98.

Financial Plan: ($ in Millions)	PY		FY96		FY97		FY98		FY99		FY00		FY01		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:																
PROCUREMENT:																
Kit Quantity																
Installation Kits																
Installation Kit Nonrecurring																
Equipment																
Equipment Nonrecurring							1	2.0	1	1.7	1	0.0			2	3.7
Engineering Change Orders																
Data																
Training Equipment										0.3		1.1				1.4
Support Equipment																
Other								2.0		2.2		7.0				11.2
Interim Contractor Support																
Installation of Hardware																
(PY) Eqpt (Kits)																
(FY96) Eqpt (Kits)																
(FY97) Eqpt (Kits)																
(FY98) Eqpt (1 Kits)							1	8.9							1	8.9
(FY99) Eqpt (1 Kits)									1	20.7					1	20.7
(FY00) Eqpt (1 Kits)											1	13.8			1	13.8
(FY01) Eqpt (Kits)																
(FY02) Eqpt (Kits)																
Total Installation Cost							1	8.9	1	20.7	1	13.8			3	43.4
Total Procurement Cost							1	12.9	1	24.9	1	21.9			3	59.7

Method of Implementation: Contractor — Administrative Lead Time: 6 Months — Production Lead Time: 8 Months

Contract Dates:	FY96:	FY97:	FY98: Jan 98	FY99: Jan 99	FY00: Jan 00
Delivery Date:	FY96:	FY97:	FY98: Aug 98	FY99: Aug 99	FY00: Aug 00

Installation Schedule:

	FY97				FY98				FY99				FY00				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input				1				1				1					3
Output								1				1				1	3

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1998-1999

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$10.182	$13.956	$10.468	$10.856	$9.918	$10.314	$9.828	$10.047

1. The Base/ALC Metrology and Calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages or consoles (electrical, mechanical and systems equipment) to all major Air Force activities having a base Precision Measurement Equipment Laboratory (PMEL). PMELs calibrate and repair equipment used to maintain aircraft, missiles, communications and other ground systems. The PMEL is the direct link between the weapon system and the National Institute of Standards and Technology (NIST). This link ensures the systems used by the operational forces perform their primary mission of delivering weapons on target. Presently there are 85 PMELs and eight Field Assistance Teams for Calibration (FASTCALs) worldwide. Funding for these calibration standards is required as all major aircraft depend heavily on offensive and defensive microwave avionics that must be calibrated to function properly in a wartime as well as in a training environment. All aircraft engines and airframes also require this calibration support. Additionally, this budget line supports space, airborne and ground communications/electronics systems such as MILSTAR. The FY98/99 program includes funding for 81 PMELs and eight FASTCALs remaining after base closures.

2. A group of certified calibration standards is required at each base PMEL to assure accurate traceable measurements are made in the basic areas recognized by the NIST. These basic groups of standards enable each Air Force activity to attain standardized measurement and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment required for daily base operational capability. The standards packages must be constantly surveyed and upgraded to stay current with the measurement art. A major breakthrough in metrology capability dictates a complete review of a measurement package to assure a cost effective approach to calibration and maintenance. In addition, as new and sophisticated systems enter the Air Force inventory, it is necessary to augment selected PMELs with special calibration standards or auxiliary equipment, the characteristics of which are critical to the systems supported.

3. The FY98 budget includes $8.9 million in contract options. Significant options include $4.1 million for the High Power Amplifier Systems, $0.744 million for Source for Calibration of Identification Friend or Foe/Tactical Air Navigation (IFF/TACAN) Test Sets, $1.6 million for Digital Sampling Oscilloscope and Standard, $0.8 million for the ILS/Modulation meter, $0.9 million for the Portable Pressure Calibrator. Additional contract options include Portable Automatic Test Equipment Calibrators (PATEC) Local Oscillators, Gage Block Flatness Interferometers, and Flow Calibration Systems. $1.1 million will be used to procure new PATECs. Remaining FY98 funds will purchase small dollar items in the Electrical and Mechanical packages. With the downsizing of the PMELs, more emphasis on transportable/mobile capabilities to serve the customers will be required in FY99 to support field locations that do not have on-site PMEL support. The FY99 budget consists of $5.4 million for new PATECs. Also being procured are Primary Gas Flow Standards for $0.6 million, Tapered Thread Measuring Machine for $0.5 million, and $1.0 million for COAX Power Measurement Standards. The rest of the budget consists of other small procurements, and $2.7 million in options, including $0.7 million for PATEC Global Positioning System (GPS) Receivers, $0.8 million for Precision Manometer, $0.3 million for the Torque Wrench Calibrator, $0.1 million Liquid Flow System Upgrades, $0.2 million Low Flow Liquid Standard, and $0.1 for the High Gas Flow System.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. P-5A contracting data is provided for those procurements exceeding $2 million.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	81	2	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE/ALC CALIBRATION PACKAGE	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. Electrical Equipment Package	A			6,245			7,366			6,866			3,165
B. Mechanical Equipment Package	A			2,269			3,851			2,370			2,796
C. Systems Equipment Package	A			1,668			2,739			1,232			4,895
TOTAL				10,182			13,956			10,468			10,856

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST ($K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
SOURCE FOR CALIBRATION OF IFF/TACAN TEST SETS										
FY96	SIERRACOM DIV OF SIERRA NETWORKS, INC HOPKINTON, MA	C/FFP	AFMC/ AFMETCAL DET 1	NOV 95	AUG 97	5	278			
FY97	UNKNOWN	C/FP	AFMC/ AFMETCAL DET 1	JUL 97	OCT 97	60	38	YES	NO	
FY98	UNKNOWN	OPT/FP (2nd Yr)	AFMC/ AFMETCAL DET 1	JUN 98	OCT 98	20	37	YES	NO	
FY99	UNKNOWN	OPT/FP (3rd Yr)	AFMC/ AFMETCAL DET 1	DEC 98	FEB 99	7	37	YES	NO	

D. REMARKS

[1] High Power High Frequency *(HPHF)*
[2] High Power Medium Frequency *(HPMF)*
[3] Low Power Medium Frequency *(LPMF)*

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST ($K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
HIGH POWER AMPLIFIER SYSTEM										
FY94	POWER SYSTEMS TECHNOLOGY, INC MELVILLE, NY	C/FFP	AFMC/ AFMETCAL DET 1	JAN 96	FEB 97	1 LPMF 1 HPMF 1 HPHF	205 385 515			
FY97	UNKNOWN	C/FP	AFMC/ AFMETCAL DET 1	APR 97	JUL 97	4 LPMF 4 HPMF 2 HPHF	103 254 436	YES YES YES	NO NO NO	
FY98	UNKNOWN	OPT/FP (2nd Yr)	AFMC/ AFMETCAL DET 1	OCT 97	JAN 98	7 LPMF 7 HPMF 4 HPHF	93 245 420	YES YES YES	NO NO NO	

D. REMARKS

[1] High Power High Frequency *(HPHF)*
[2] High Power Medium Frequency *(HPMF)*
[3] Low Power Medium Frequency *(LPMF)*

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
81	5	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST ($K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
LOCAL OSCILLATOR UPGRADE FOR PATEC										
FY96	NAVY/ANRITSU WILTRON SALES CO. MORGAN HILL, CA	MIPR/C/FFP	AFMC/ AFMETCAL DET 1	APR 96	AUG 96	154	17.5			
FY97	NAVY WILTRON SALES CO MORGAN HILL, CA	MIPR/C/FFP	AFMC/ AFMETCAL DET 1	OCT 96	DEC 96	147	17.5			

D. REMARKS

[1] High Power High Frequency *(HPHF)*
[2] High Power Medium Frequency *(HPMF)*
[3] Low Power Medium Frequency *(LPMF)*

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.368	$1.562	$1.665	$1.562	$1.669	$1.832	$1.842	$1.916

1. The Primary Standards Laboratory Package consists of measurement standards required by the Air Force Primary Standards Laboratories (AFPSLs). The Air Force standards and auxiliary measurement equipment is grouped in five packages: (A) Electrical Equipment Package, (B) Mechanical Equipment Package, (C) Photonics and Nucleonics Equipment Package, (D) Physical Equipment Package, and (E) Systems Equipment Package. These standards and equipment enable the AFPSLs to maintain a disciplined system of measurement control to assure standardized calibration of all precision measurement equipment at precision measurement equipment laboratories (PMELs) supporting aircraft, missiles and ground communications systems.

2. The AFPSL supports the following areas:

a. All Air Force PMELs by providing the master calibration capability traceable to the National Institute of Standards and Technology.

b. The Inertial Guidance Systems (IGS) Repair Facility. This includes precise azimuth alignment of inertial guidance systems being prepared.

c. Specialized test and calibration support. This includes development of infrared standards of radiance and provides stable platform and dynamic test capability not only for the Air Force IGS but also for specialized tests for the Army and Navy programs.

3. Although the AFPSL calibration services and the generation of calibration technical orders were privatized in place (PIP), funding for new and enhanced calibration standards will remain an Air Force priority in accordance with the PIP contract. Management of the Air Force Metrology and Calibration (AFMETCAL) Program at Newark AFB, Ohio, 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. As more reliance is placed on high technology weapons systems for our national security as a means of offsetting force reductions, the need for accurate and precise measurements becomes increasingly important. Also, according to the Air Force Legal Services Agency, if it is determined that a mishap occurs as a result of the Air Force's failure to properly calibrate test measurement and diagnostics equipment (TMDE) in accordance with published calibration schedules, negligence could be established against the Air Force resulting in a potential award of damages against the United States. Failure to comply with a published calibration schedule and testing can constitute negligence and expose the Air Force to liability.

4. Major FY97 procurements are primarily for the Electrical and Physical Equipment Packages. FY98 procurements are primarily focused in the Mechanical, Photonics/Nucleonics and Physical Equipment Packages, and FY99 procurements are primarily focused in the Photonics/Nucleonics and Physical Equipment Packages.

	P-1 SHOPP LIST ITEM NO. 82	PAGE NO. 7	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE PRIMARY STANDARDS LABORATORY PACKAGE				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

Major FY98 Procurements:

a. MECHANICAL EQUIPMENT PACKAGE: Ultrasonic Manometer ($480 thousand). This system will allow more accurate and faster measurements of low pressure which directly affects safety of flight conditions.

b. PHOTONICS AND NUCLEONICS PACKAGE: Fiber Optic Data Communication Link ($148 thousand), and the Hetrodyne Optical Sweeper ($100 thousand). The Fiber Optic Data Communication Link will allow support of all fiber optic systems rather than at the present component level. The Hetrodyne Sweeper will be used to calibrate the frequency response of light receiving elements and circuits used in high-speed, large capacity, optical communication systems.

c. PHYSICAL PACKAGE: Thread Measuring Machine ($200 thousand) and the Ring Gage Measuring System ($200 thousand). The Thread Measuring Machine is required to do initial calibrations used for mastering thread form gages. This capability does not currently exist in the Air Force Metrology Calibration Program. Procurement of the Ring Gage Measuring System will result in increased capability in the calibration accuracy of ring gages.

Major FY99 Procurements:

a. PHOTONICS AND NUCLEONICS PACKAGE: C-Series Calorimeter System ($150 thousand). Supports measurements of continuous wave laser power and energy meters.

b. PHYSICAL PACKAGE: Measuring Machine Upgrade ($250 thousand) and the Phase Interferometer Upgrade ($310 thousand). The Measuring Machine will upgrade the currently used Moore M3 Measuring Machine used to calibrate angle plates, box parallels, v-blocks, and sine plates. The Phase Interferometer will upgrade the Zygo Phase Interferometer used to calibrate optical flats and mirrors and give the AFPSL metric capabilities

5. ANG/AFR: N/A

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME PRIMARY STANDARDS LABORATORY PACKAGE	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Vendors

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. Mechanical Equipment Package	A			162			213			480			100
B. Photonics and Nucleonics Equipment Package				265			247			398			584
C. Physical Equipment Package				738			534			460			575
D. Electrical Equipment Package	A			150			536			185			280
E. Systems Equipment Package	A			53			32			142			23
TOTAL				1,368			1,562			1,665			1,562

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE:) ITEMS LESS THAN $2,000,000 (TEST EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	$10.983	$12.177	$9.627	$8.382	$9.546	$9.278	$8.855	$9.131

1. This program includes hundreds of test and measurement equipment items used throughout the Air Force. The equipment is used in Precision Measurement Equipment Laboratories (PMELs), Avionics Integrated Support Facilities (AISFs), Automated Test Support Facilities, Centralized Radio Shops, Radio/Radar Repair Shops, and Maintenance Shops. This equipment is also used to calibrate aircraft Avionics Intermediate Shop equipment.

2. There are approximately 7,500 individual test items procured in this line. All have an annual procurement value of less than $2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	FY98 QTY	FY98 DOLLARS	FY99 QTY	FY99 DOLLARS
Signal Generator	6625-01-380-5036	85	1.522	32	.585
Spectrum Analyzer	6625-01-365-3980	100	1.466	40	.600
Spectrum Analyzer	6625-01-289-0854	93	1.799	100	1.977
Digital Power Meter	6625-01-407-6262	240	1.440	67	.402
Oscillator Sweep Synthesizer	6625-01-349-9277	111	1.987	111	1.987
Oscilloscope System	6625-01-241-5276	7	.075	2	.022
Oscilloscope System	6625-NS-L	0	0.00	83	1.628
Major Dollars ($100 - $300 Thousand)					
Federal Stock Class (FSC) 6625 Elect Properties (Over 150 items)			.892		.674
Minor Dollars ($0 - $100 Thousand)					
FSC 5985			.232		.275
FSC 6625			.214		.232
Total			9.627		8.382

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (TEST EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.088			.006
FY97			2.763			.546
FY98			2.255			.347
FY99			1.499			.046

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$0.969	$3.642	$2.371	$7.086	$2.890	$2.968	$3.512	$4.047

Modern warfare has led to an increase in airborne combat under the cover of darkness. Night missions include ground operations, takeoffs and landings in complete darkness, lights-off air refueling and visual acquisition and identification of enemy targets hidden under the night sky. Night vision goggles provide the capability to see in night/low visibility conditions. The goggles are helmet mounted, battery and/or aircraft powered, and weigh approximately 12 to 30 ounces, and are essential for night and low visibility combat rescue missions and special operations.

1. The following aircrew and groundcrew goggles are procured in this budget line:

a. **AIRCREW GOGGLES (AN/AVS-6)**: The aircrew goggle (AN/AVS-6) is specifically designed for aircrews to permit night flying and target recognition. It provides a "look under" capability for the pilot to monitor cockpit instruments. These units are used primarily by Air Force Special Operations Forces, some H-3/MH-60 helicopter rescue forces, some bomber/tanker units and a limited number of F-15 fighter units. Aircrew goggles are binocular. FY97 completes procurement of these goggles. The newer F-4949 goggle, which has better acuity, is now being procured in lieu of the AN/AVS-6.

b. **GROUNDCREW GOGGLE (AN/PVS-7B)**: The groundcrew goggle (AN/PVS-7B) is primarily used by security police in conducting air base defense, counternarcotics and anti-terrorist operations. The units are also used by the base recovery after-attack teams and by some non-cockpit aircrew members. This goggle is monocular with a third generation image intensifier. FY96-99 funding procures 86, 66, 216 and 77 goggles respectively.

c. **AIRCREW GOGGLE (F-4949)**: The F-4949 night vision goggle provides 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 800 grams. 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. FY97-99 funding will procure 477, 261 and 875 goggles respectively.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 197	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE NIGHT VISION GOGGLES				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

2. ANG/AFR: (Various types of goggles)

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.096			.062
FY97			.658			.048
FY98			.490			.071
FY99			1.148			.069

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME NIGHT VISION GOGGLES	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. Aircrew Goggle (AN/AVS-6)	A	75	6,632	(635) 497	40	6,125	(262) 245						
		13	6,125	80									
A. Engineering Support				53			17						
B. Warranty				5									
2. Groundcrew Goggle (AN/PVS-7B)	A	86	3,555	(334) 306	66	2,640	(186) 174	216	2,640	(619) 570	77	3,827	(322) 295
A. Engineering Support				24			12			49			27
B. Warranty				4									
3. Aircrew Goggle (F-4949)	A				477	6,206	(3,194) 2,960	261	6,206	(1,752) 1,620	875	7,443	(6,764) 6,513
A. Engineering Support							234			132			251
TOTAL				969			3,642			2,371			7,086

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AIRCREW GOGGLE (AN/AVS-6)										
FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (4TH YEAR)	AFMC/WRALC	DEC 95	APR 96	75	6,632			
FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (4th YEAR)	AFMC/WRALC	MAR 96	DEC 96	13	6,125 [1]			
FY97	ARMY/CECOM ITT, ROANOKE VA	MIPR/OPT/ FFP (5th YEAR)	AFMC/WRALC	FEB 97	JAN 98	39	6,125 [1]	YES	NO	
FY97	ARMY/CECOM ITT, ROANOKE VA	MIPR/OPT/ FFP (5th YEAR)	AFMC/WRALC	APR 97	JAN 98	1	6,125 [1]	YES	NO	

Remarks:
1. ARMY PRICING.
2. AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.

P-1 SHOPP LIST ITEM NO. 84

PAGE NO. 15

Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
2. GROUNDCREW GOGGLE (AN/PVS-7B)										
FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (5th YEAR)	AFMC/WRALC	DEC 95	NOV 99 [2]	86	3,555 [1]			
FY97	ARMY/CECOM ITT, ROANOKE, VA	MIPR CM2/FFP (1st YEAR)	AFMC/WRALC	FEB 97	JAN 00 [2]	66	2,640 [1]	YES	NO	
FY98	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT FFP (2nd YEAR)	AFMC/WRALC	MAR 98	FEB 01 [2]	216	2,640 [1]	YES	NO	
FY99	ARMY/CECOM UNKNOWN	MIPR CM2/FP (1ST YEAR)	AFMC/WRALC	APR 99	MAR 02 [2]	77	3,827 [1]	YES	NO	

Remarks:
1. ARMY PRICING.
2. AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
3. AIRCREW GOGGLE (F-4949)											
FY97	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (2ND YEAR)	AFMC/WRALC	FEB 97	JAN 98	477	6,206 [1]	YES	NO		
FY98	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (3rd YEAR)	AFMC/WRALC	MAR 98	FEB 99	261	6,206 [1]	YES	NO		
FY99	ARMY/CECOM UNKNOWN	MIPR CM2/FP (1ST YEAR)	AFMC/WRALC	APR 99	MAR 00	875	7,443 [1]	YES	NO		

Remarks:
1. ARMY PRICING.
2. AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	84	17	

UNCLASSIFIED
REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

DATE: FEBRUARY 1997
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES AIRCREW GOGGLES, AN-AVS-6

ASSETS	
On Hand as of 31 Mar 96	4202
Due-in w/all Prior Years' Funds	197
Due-in w/FY97 Funds	40
TOTAL ASSETS:	4439
USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	5
FY98:	5
FY99:	15
FY00:	19
FY01:	0
TOTAL USAGE (___MONTHS)	44
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	4395
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	3600
Air National Guard Requirement	314
Air Force Reserve Requirement	481
TOTAL REQUIREMENT	4395
APPROVED ACQUISITION OBJECTIVE	4395
PROCUREMENT REQUIREMENT	
Total FY98 Requirement	4395
Less Net Assets	4395
Required FY98 Procurement	0
Planned FY98 Procurement	0
Total FY99 Requirement	4395
Less Net Assets	4395
Less FY98 Planned Procurement	0
Required FY99 Procurement	0
Planned FY99 Procurement	0

REMARKS: These goggles are not being procured after FY97. The F-4949, with better acuity, will be procured.

P-1 SHOPP LIST
ITEM NO. 84

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES
GROUNDCREW GOGGLES, AN-PVS-7B

ASSETS	
On Hand as of 31 Mar 96	10882
Due-in w/all Prior Years' Funds	163
Due-in w/FY97 Funds	66
TOTAL ASSETS:	11111
USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	243
FY98:	138
FY99:	105
FY00:	139
FY01:	0
TOTAL USAGE (___MONTHS)	625
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	10486
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	9603
Air National Guard Requirement	3054
Air Force Reserve Requirement	1118
TOTAL REQUIREMENT	13775
APPROVED ACQUISITION OBJECTIVE	13775

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	13775
Less Net Assets	10486
Required FY98 Procurement	3289
Planned FY98 Procurement	216
Total FY99 Requirement	13775
Less Net Assets	10486
Less FY98 Planned Procurement	216
Required FY99 Procurement	3073
Planned FY99 Procurement	77

REMARKS:

P-1 SHOPP LIST ITEM NO. 84

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UNCLASSIFIED
REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

DATE: FEBRUARY 1997
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES AIRCREW GOGGLES, F4949

ASSETS	
On Hand as of 31 Mar 96	1994
Due-in w/all Prior Years' Funds	1317
Due-in w/FY97 Funds	477
TOTAL ASSETS:	3788
USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	3788
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	5566
Air National Guard Requirement	1214
Air Force Reserve Requirement	817
TOTAL REQUIREMENT	7597
APPROVED ACQUISITION OBJECTIVE	7597
PROCUREMENT REQUIREMENT	
Total FY98 Requirement	7597
Less Net Assets	3788
Required FY98 Procurement	3809
Planned FY98 Procurement	261
Total FY99 Requirement	7597
Less Net Assets	3788
Less FY98 Planned Procurement	261
Required FY99 Procurement	3548
Planned FY99 Procurement	875

REMARKS:

P-1 SHOPP LIST
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| FY98/99 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: **NIGHT VISION GOGGLES** | | | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: **NIGHT VISION GOGGLES** | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (PERSONAL SAFETY AND RESCUE EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$4.670	$5.814	$3.509	$3.125	$3.673	$3.757	$3.652	$3.756

1. This program contains numerous items of safety and rescue equipment used throughout the Air Force. Typical items are anti-exposure coveralls, parachutes, life rafts, and life preservers. Also included are reverse osmosis desalinators which enable personnel on-board life rafts to convert life sustaining quantities of salt water into fresh water.

2. All items have an annual procurement value of less than $2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

		FY98		FY99	
NOMENCLATURE	NSN	QTY	DOLLARS	QTY	DOLLARS
Person Life Raft	4220-00-563-3567LS	300	.623		
Radio Test Set	6625-01-389-3546	80	1.744	50	1.090
Toxic Indicator	6665-00-941-6554	200	.731	200	.731
Deployable Fire Protection System (DFPS)				10	.832
FSC 4220 Marine, Life Saving & Diving Equipment			.278		.272
FSC 8475 Specialized Flight & Accessories			.133		.200
TOTAL			3.509		3.125

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			1.011			.766
FY97			.963			.609
FY98			1.212			.100
FY99			1.090			.294

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$6.251	$8.866	10.747	14.917	$15.810	$15.679	$14.881	$15.181

1. The Mechanized Material Handling System (MMHS) Program provides bases worldwide with automated equipment for storing, receiving and shipping material. The program consists of Base Mechanized and Air Terminal Mechanized equipment projects. The Base Mechanization Equipment Program involves the purchase of mechanized and automated materials handling systems and associated storage aids systems. These systems include roller and tow-line conveyors, monorails, traversing conveyor loading units, pneumatic tube systems, driverless tractor systems, storage/retrieval cranes, automatic stock selector vehicles, operator-aboard systems, associated process control systems, wire guided storage systems (WGSS), automated warehousing systems (AWS), receiving-storage-distribution systems (RS/DS), storage and retrieval systems (S/RS), vertical carousel systems (VCS), small parts handling systems (SPHS), warehouse distribution systems (WDS), and storage aids systems (SAS). The Air Terminal Mechanization Equipment Program acquires mechanized handling systems and automated materials handling systems for bases worldwide. These systems include personnel loading bridges, heavy duty freight handling conveyors, pallet buildup-breakdown stations, cargo storage/retrieval systems, towline conveyors, cranes, hoists and conveyors for aerial delivery facilities, baggage conveyors, air mail terminal systems and heavy duty gantry, jib, or bridge cranes. The projects range in size from simple high-line dock systems to complete automated air freight terminal systems.

2. Adequately equipped facilities are essential to store and handle weapons system components, for enhancing space utilization, to maximize our war readiness capabilities, and to minimize the time required to respond to a threat. The use of this equipment increases the productivity of Air Force support personnel, enhances management control of assets, reduces the pipeline time to the operational users, reduces multiple handling of materials, increases flexibility at a minimum investment cost, simplifies inventory and maintenance tasks, enhances safe operations, and reduces losses due to damage of materials in transport or storage. FY96-99 projects are outlined on the P-5 Budget Exhibit.

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			.506
FY97			1.610			-
FY98			.700			-
FY99			-			-

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. **Air Combat Command (ACC)**													
A. Nellis AFB, NV													
(1) High Density Storage System (HDSS) Engine Parts	A			28									
B. Misc Storage Aids Sys (SAS)	A						1,380			585			1,211
C. Minot AFB, ND													
(1) Automated Guide Veh Sys (AGVS) Whse	A												200
Subtotal ACC				**28**			**1,380**			**585**			**1,411**
2. **Air Education and Training Command (AETC)**													
A. Keesler AFB, MS													
(1) Storage Aids System Taylor Logistics Center	A			65									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996 QTY	FY 1996 UNIT COST	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 UNIT COST	FY 1997 TOTAL COST	FY 1998 QTY	FY 1998 UNIT COST	FY 1998 TOTAL COST	FY 1999 QTY	FY 1999 UNIT COST	FY 1999 TOTAL COST
B. Sheppard AFB, TX (1) Receiving, Storage, and Distribution Sys (RS/DS) FY96 MCP VNVP902005	A									1,000			
C. Tyndall AFB, FL (1) Storage Aid Sys (SAS) Supply Warehouse	A									200			
D. Lackland AFB, TX (1) Initial Issue Flight	A												394
Subtotal AETC				**65**						**1,200**			**394**
3. Air Force Civil Engineering Support Agency (AFCESA)													
A. Goodfellow AFB, TX (1) Storage Aids System (SAS) Civil Engineering	A			60									
B. Sheppard AFB,TX (1) Storage Aids System (SAS) MCP VNVP862005	A			200									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
C. Keesler AFB, MS (1) Storage Aids System (SAS) Civil Engineering Logistics Facility	A						200						
D. Langley AFB, VA (1) Storage Aids System (SAS) FY94 MCP FY94 MUHJ943008	A									300			
E. Misc Storage Aids Sys (SAS)	A									1,437			
F. Altus AFB, OK (1) Storage Aids Sys (SAS) FY98 MCP AGG N973014	A												212
Subtotal AFCESA				**260**			**200**			**1,737**			**212**

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. Air Force Materiel Command (AFMC)													
A. Arnold AFB, TN													
(1) High Density Storage System (HDSS) HAZMAT FY95 MCP 963003	A			200									
B. Edwards AFB, CA													
(1) Flight Test F-22 FY96 MCP 963506	A						250						
(2) Small Parts Retrieval Sys (SPRS)	A												300
C. Robins AFB, GA													
(1) Receiving, Storage, Distribution Sys (RS/DS) Mobags, Bldg 127	A						200						
(2) Automated Storage/ Retrieval Sys (AS/RS) Bldg 640/645	A									450			

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
(3) Small Parts Retrieval Sys (SPRS) Bldg 301	A												105
D. Davis Monthan AFB, AZ										500			
(1) Base Supply MCP FBNV973502	A												
Subtotal AFMC				**200**			**450**			**950**			**405**
5. **Air Force Reserves (AFRES)**													
A. Homestead AFB, FL				506									
Receiving, Storage Dist System (RS/DS) FY95 MCP HACC943062	A												
Subtotal AFRES				**506**									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
6. **Air Force Space Cmd (AFSPC)**													
A. Clear AS, AK (1) High Density Storage Sys (HDSS) Base Supply Bldg. 250	A						400						
B. Patrick AFB, FL (1) Base Supply, FY98 MCP SXHT983006	A												1,200
Subtotal AFSPC							**400**						**1,200**
7. **Air Force Special Operations Command (AFSOC)**													
A. Hurlburt Field, FL (1) SAS DRASH IOE FTEV946002	A			75									
Subtotal AFSOC				**75**									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
8. Air Mobility Command (AMC)													
A. Dover AFB, DE (1) Inbound/Outbound (IN/OB) Baggage Conveyor IOE FJXT963004	A			450									
B. Fairchild AFB, WA (1) HAZMAT Storage Aids System (SAS) MCP FY95 GJKZ920016	A			196									
C. Lajes Field, Azores (1) Inbound/Outbound (IB/OB) IOE FY96 MCP LAJ96-1014A/B	A			200									
D Mildenhall AB, UK (1) Inbound/Outbound (IB/OB) Passenger (PAX) Terminal FY96 MCP MIL96-9991	A			549									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	88	33	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
E. McGuire AFB, NJ (1) Overhead Crane MCP PTFL943110/1/2	A						250						
F. Andrews AFB, MD (1) Inbound/Outbound (IB/OB) Baggage Conv IOE AJXF95-1579	A									200			
G. Charleston AFB, SC (1) Storage Aids Sys (SAS) Aerial Port/ Fleet Services	A						125						
H. Norfolk, VA (1) Outbound (OB) Loading Bridge IOE MILCON P-296	A									975			
I. Naples NAS, IT (1) Inbound/Outbound (IB/OB) Baggage Conveyor IOE FY97 MILCON P-112	A									300			

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
(2) Mechanization of Air Freight Terminal IOE FY97 MILCON P-112	A									500			
J. Elmendorf AFB, AL (1) Storage Aids Sys (SAS) FSL/CTK IOE FY97 FXSB96-2205	A									100			
K. MacDill AFB, Fl (1) Centralized Life Spt MCP NYZR973718	A									250			
L. Ramstein AB, GE (1) Inbound/Outbound (IB/OB) Baggage Conv. IOE FY97 P1K	A									300			
(2) Mechanization of Air Freight Terminal (AFT) IB/OB Small Parts Handling Sys (SPHS)	A												6,000
(3) Air Freight Terminal Multipallet Handling Sys	A												2,500

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	88	35	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
M. Misc Storage Aids System (SAS)													
(1) Sq Ops MCPs	A						1,600			550			600
Subtotal AMC				**1,395**			**1,975**			**3,175**			**9,100**
9. Air National Guard (ANG)													
A. Rickenbacker ANGB,OH													
(1) RS/DS MCP NLZG939686	A						240						
B. Little Rock ANG, AK													
(1) Base Supply FY96 MCP NKAK939897	A						400						
C. Peoria ANG, IL													
(1) Aerial Delivery Facility (ADF) MCP JLQN939877	A						300						
D. Phoenix ANG, AZ													
(1) Storage Aids Sys (SAS) MCP (City Funded)	A						200						

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	88	36	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
E. Sioux Falls ANG, SD (1) RS/DS 114 TFG FY96MCP LUXC001389	A						270						
F. Maine ANG, ME (1) Storage Aid Sys (SAS) Mezzanines	A						200						
G. Dallas ANG, TX (1) Base Supply Storage Aid System (SAS) MCP DDPF909506	A									200			
H. Lincoln ANG, NE (1) Receiving, Storage and Dist (RS/DS) Outfitting of Equipment (IOE) FY96 MCP NGCB919717	A									250			
I. Ft Wayne ANGB, IN (1) Receiving, Storage and Dist (RS/DS) IOE MCP ATQZ 001054	A									250			
Subtotal ANG							**1,610**			**700**			

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	88	37	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
10. **PACAF**													
A. Eielson AFB AK (1) HDS Bldg 1306 SAS IOE FY95 AGS/APS FY96 MCP FTQW933033	A						225						
B. Naha Airport, JA (1) Air Mail Terminal	A									190			
C. Yokota AB, JA (1) Air Mail Terminal	A									190			
Subtotal PACAF							**225**			**380**			
11. **USAFA**													
A. Colorado Springs, CO (1) Arnold Hall Mezzanine	A						99						
Subtotal USAFA							**99**						

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
12. **USAFE**													
A. Ramstein AFB, GE													
(1) HAZMAT FY94 MCP TYFR879008	A			100									
(2) High Density Storage Sys MCP 10K Pallet Jacks	A												250
B. Frankfurt AB, GE													
(1) Air Mail Terminal	A			3,156									
C. Spangdahlem AB													
(1) Mobility Whse IOE VYHK943005	A						800						
Subtotal USAFE				**3,256**			**800**						**250**
13. **Items Under $200 Thousand**													
A. AFMC Robins AFB, GA													
(1) RS/DS Bldg 364	A						80						

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
B. AMC-Lajes Field AZ													
(1) Mech of Air Freight Terminal (AFT)	A						50						
C. Oklahoma ANG, OK													
(1) High Density Storage System (HDSS)	A									175			
Subtotal: Items under $200K							**130**			**175**			
14. **US Air Force Wide**													
A. Logistics Applications Automatic Marking and Reading Symbols (LOGMARS) FY96													
(1) BCE Auto Identification System	A			466									
B. LOGMARS FY97													
(1) Egress AIT Sys Hill AFB, UT	A						497						

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
(2) Mobility Bag control Center, MacDill AFB, FL and Beal AFB, CA	A						300						
(3) Bare Base Inventory Sys, Holloman AFB, NM	A						600						
(4) Extension Course Institute Manifest System, Gunter Annex, AL	A						200						
C. LOGMARS FY98													
(1) Ammunition Logistics Sys, Hill AFB, UT	A									500			
(2) Supply Asset Tracking Sys (SATS) Cargo Move. Operating Sys (CMOS) Radio Frequency (RF), Eglin AFB, FL	A									490			
(3) Red Flag Security Access Sys, Nellis AFB, NV	A									550			

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
(4) U2 Weapons Sys Support, Robins AFB, GA	A									305			
D. LOGMARS FY99 (Individual FY99 projects to be approved 2nd Qtr FY97)	A												1,945
Subtotal USAF Wide				**466**			**1,597**			**1,845**			**1,945**
TOTAL				**6,251**			**8,866**			**10,747**			**14,917**

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING SYSTEMS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY96 MMHS PROJECTS										
1. ACC										
A. NELLIS AFB, NV										
(1) HDSS ENGINE PARTS	SOURCE INDUS LAS VEGAS, NV STANLEY STG SYS ALLENTOWN, PA	C/FFP	NELLIS AFB, NV	SEP 96	FEB 97	1	28			
2. AETC										
A. KEESLER AFB, MS										
(1) STORAGE AIDS SYS TAYLOR LOGISTICS CENTER	CRAFT EQUIP TAMPA, FL	C/FFP	KEESLER AFB, MS	JUL 96	DEC 96	1	65			
3. AFCESA										
A. GOODFELLOW AFB, TX										
(1) SAS CIVIL ENGINEERING	CROWN LIFT TRK VANDALIA, OH	C/FFP	GOODFELLOW AFB, TX	SEP 96	SEP 96	1	60			
B. SHEPPARD AFB, TX										
(1) SAS MCP FY95VNVP862005	WHITE STAFA SYS KENWORTH, NJ	C/FFP	SHEPPARD AFB, TX	JUL 96	AUG 96	1	200			

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATION CAPABILITY

P-1 SHOPP LIST ITEM NO. 88

PAGE NO. 43

Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING SYSTEMS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. AFMC										
A. ARNOLD AFB, TN (1) HDSS HAZMAT FY95 MCP 963003	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	200			
5. AFRES										
A. HOMESTEAD AFB, FL (1) RS/DS FY95 MCP HACC943062	INTL AUTO. SYS ST PAUL, MN	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	506			
7. AFSOC										
A. HURLBURT FLD, FL (1) SAS DRASH IOE FTEV946002	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	JUL 96	FEB 97	1	75			
8. AMC										
A. DOVER AFB, DE (1) IN/OB BAGGAGE CNVYR IOE FJXT963004	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	450			

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATION CAPABILITY

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING SYSTEMS						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
B. FAIRCHILD AFB, WA (1) HAZMAT SAS MCP FY95 GJKZ920016	SPACE SAVER STORAGE SEATTLE, WA	C/FFP	FAIRCHILD AFB, WA	JUL 96	OCT 96	1	196			
C. LAJES FIELD, AZORES (1) IB/OB IOE FY96 MCP LAJ96-1014A/B	BLOCAIOA LDT AZORES	C/FFP	LAJES FIELD, AZORES	JUL 96	DEC 96	1	200			
D. MILDENHALL AB, UK (1) IB/OB PAX TERM FY96 MCP MIL96-9991	GENESYS INC WINTER SPRING, FL	C/FFP	AFMC/ASC	JUL 96	FEB 97	1	549			
12. **USAFE**										
A. RAMSTEIN AB, GE (1) HAZMAT FY94 MCP TYFR879008	OSKAR SCHEIDER GERMANY	C/FFP	RAMSTEIN AFB, GE	AUG 96	DEC 96	1	100			
B. FRANKFURT AB, GE (1) AIR MAIL TERMINAL	INTL AUTO. SYS ST PAUL, MN	C/FFP	AFMC/ASC	SEP 96	SEP 97	1	3,156			

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATION CAPABILITY

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING SYSTEMS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
14. US Air Force Wide											
A. LOGMARS (1) BCE AUTO ID SYSTEM	COMPUTER SVCS CORP DALLAS, TX	C/FFP	AFMC/ASC	APR 96	OCT 96	1	466				

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATION CAPABILITY			
	P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 46	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97 MMHS PROJECTS										
1. ACC										
B. MISC STORAGE AIDS SYS	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	OCT 97	1	1380	YES	NO	
3. AFCESA										
C. KEESLER AFB, MS (1) SAS CIVIL ENGINEERING LOGISTICS FACILITY	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	DEC 97	1	200	NO	YES	FEB 97
4. AFMC										
B. EDWARDS AFB, CA (1) FLIGHT TEST F-22 FY96 MCP 963506	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	JAN 98	1	250	YES	NO	
C. ROBINS AFB, GA (1) RS/DS MOBAGS, BLDG 127	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	NOV 97	1	200	YES	NO	

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
6. AFSPC										
A. CLEAR AFB, AK (1) HDSS BASE SUPPLY BLDG 250	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	JAN 98	1	400	YES	NO	
8. AMC										
E. MCGUIRE AFB, NJ (1) OVERHEAD CRANE MCP PTFL943110/1/2	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	AUG 97	1	250	YES	NO	
G. CHARLESTON AFB, SC (2) SAS AERIAL PORT/FLEET SERVICES	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	125	NO	YES	MAR 97
M. MISC SAS (1) SQ OPS MCP'S	ARMY CORP OF ENGINEERS	C/FFP	AFMC/ASC	MAY 97	FEB 98		1,600	YES	NO	

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
9. ANG										
A. RICKENBACKER ANG, OH (1) RS/DS MCP NLZG939686	UNKNOWN	C/FFP	AFMC/ASC	JUL 97	DEC 97	1	240	YES	NO	
B. LITTLE ROCK ANG, AK (1) BASE SUPPLY FY96 MCP NKAK939897	UNKNOWN	C/FFP	AFMC/ASC	JUL 97	OCT 97	1	400	YES	NO	
C. PEORIA ANG, IL (1) AERIAL DELIVERY FACILITY MCP JLQN939877	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	SEP 97	1	300	YES	NO	
D. PHOENIX ANG, AZ (1) SAS MCP (CITY FUNDED)	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	200	NO	YES	FEB 97
E. SIOUX FALLS ANG, SD (1) RS/DS 114 TFG FY96 MCP LUXC001389	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	270	YES	NO	
F. MAINE ANG, ME (1) SAS MEZZANINES	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	OCT 97	1	200	NO	YES	FEB 97

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO. 88

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
10. **PACAF**										
A. EIELSON AFB, AK (1)HDS BLDG 1306 SAS IOE FY95 AGS/APS FY96 MCP FTQW933033	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	NOV 97	1	225	YES	NO	
11. **USAFA**										
A. COLORADO SPRINGS, CO (1) ARNOLD HALL MEZZANINE	UNKNOWN	C/FFP	AFMC/ASC	JUL 97	DEC 97	1	99	NO	YES	FEB 97
12. **USAFE**										
C. SPANGDAHLEM AB, GE (1)MOBILITY WHSE IOE YHK943005	UNKNOWN	C/FFP	AFMC/ASC	AUG 97	SEP 98	1	800	YES	NO	

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
13. **ITEMS UNDER $200 THOUSAND**											
A. ROBINS AFB, GA (1) RS/DS BLDG 364	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	DEC 97	1	80	YES	NO		
B. AMC - LAJES FLD, AZORES (1) MECH OF AFT	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	50	NO	YES	FEB 97	
14. **US AIR FORCE WIDE**											
(1) EGRESS AIT SYSTEM HILL AFB, UT	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	497	NO	YES	FEB 97	
(2) MOBILITY BAG CONTROL CENTER, MACDILL AFB, FL & BEALE AFB, CA	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	AUG 97	1	300	NO	YES	FEB 97	
(3) BARE BASE INVENTORY SYS, HOLLMAN AFB, NM	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	600	YES	NO		

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
(4) EXT COURSE INSTITUTE MANIFEST SYS, GUNTER ANNEX, AL	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	SEP 97	1	200	NO	YES	APR 97	

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT			
	P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 52	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98 MMHS PROJECTS										
1. ACC										
B. MISC STORAGE AIDS SYS	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	585	NO	YES	NOV 97
2. AETC										
B. SHEPPARD AFB, TX										
(1) RS/DS FY96 MCP VNVP902005	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	1,000	NO	YES	NOV 97
C. TYNDALL AFB, FL										
(1) SAS SUPPLY WAREHOUSE	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	200	NO	YES	NOV 97
3. AFCESA										
D. LANGELY AFB, VA										
(1) SAS FY94 MCP FY94 MUHJ943008	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	300	NO	YES	NOV 97
E. MISC SAS	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	1,437	NO	YES	DEC 97

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. AFMC										
C. ROBINS AFB, GA (2) AS/RS, BLDG 640/645	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	JAN 99	1	450	NO	YES	OCT 97
D. DAVIS MONTHAN AFB, AZ (1) BASE SUUPLY MCP FBNV973502	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	APR 99	1	500	NO	YES	DEC 97
8. AMC										
F. ANDREWS AFB, MD (1) IN/OB BAGG. CONV. IOE AJXF95-1579	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	200	NO	YES	DEC 97
H. NORFOLK, VA (1) (OB) LOADING BRIDGE IOE MILCON P-296	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	SEP 98	1	975	NO	YES	JAN 98
I. NAPLES NAS, IT (1) IB/OB BAGGAGE CNVYR IOE FY97 MILCON P-112	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	SEP 99	1	300	NO	YES	NOV 97
(2) MECHANIZATION OF AIR FREIGHT TERMINAL IOE FY97 MILCON P-112	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	SEP 99	1	500	NO	YES	NOV 97

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
J. ELMENDORF AFB, AL (1) SAS FSL/CTK IOE FY97 FXSB96-2205	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	100	NO	YES	DEC 97	
K. MACDILL AFB, FL (1) CENTRALIZED LIFE SPT MCP NYZR973718	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	OCT 98	1	250	NO	YES	NOV 97	
L. RAMSTEIN AB, GE (1) IN/OB BAGG. CONV. IOE FY97 P1K	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	300	NO	YES	DEC 97	
M. MISC SAS (1) SQ OPS MCP'S	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	FEB 99		550	NO	YES	DEC 97	
9. **ANG**											
G. DALLAS ANG, TX (1) BASE SAS MCP DDPF909506	UNKNOWN	C/FFP	AFMC/ASC	JUL 98	FEB 99	1	200	NO	YES	OCT 97	
H. LINCOLN ANG, NE (1) RS/DS IOE, FY96 MCP NGCB919717	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	DEC 98	1	250	NO	YES	OCT 97	

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
I. FT WAYNE ANGB, IN (1) RS/DS IOE MCP ATQZ 001054	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUL 98	1	250	NO	YES	JUN 97
10. **PACAF**										
B. NAHA AIRPORT, JAPAN (1) AIR MAIL TERMINAL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	FEB 99	1	190	NO	YES	NOV 97
C. YOKOTA AB, JAPAN (1) AIR MAIL TERMINAL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	FEB 99	1	190	NO	YES	NOV 97
13. **ITEMS UNDER $200 THOUSAND**										
C. OKLAHOMA ANG, OK (1) HDSS	UNKNOWN	C/FFP	AFMC/ASC	APR 98	OCT 98	1	175	NO	YES	OCT 97
14. **US AIR FORCE WIDE**										
C. LOGMARS (1) AMMO LOGISTICS SYS HILL AFB, UT	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	AUG 98	1	500	NO	YES	JAN 98

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
(2) SATS CMOS RF EGLIN AFB, FL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	SEP 98	1	490	NO	YES	MAR 98
(3) RED FLAG SECURITY ACCESS SYS NELLIS AFB, NV	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUN 98	1	550	NO	YES	NOV 97
(4) U2 WEAPONS SYS SPT ROBINS AFB, GA	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUL 98	1	305	NO	YES	NOV 97

D. REMARKS
MCP - MILITARY CONSTRUCTION PROJECT
IOE - INITIAL OPERATING EQUIPMENT

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99

C. P-1 ITEM NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99 MMHS PROJECTS										
1. ACC										
B. MISC SAS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00	1	1,211	NO	YES	NOV 98
C. MINOT AFB, ND										
(1) AGVS WHSE	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	JAN 00	1	200	NO	YES	NOV 98
2. AETC										
D. LACKLAND AFB, TX										
(1) INITIAL ISSUE FLIGHT	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	394	NO	YES	NOV 98
3. AFCESA										
F. ALTUS AFB, OK										
(1) SAS FY98 MCP AGG N973014	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	212	NO	YES	NOV 98

D. REMARKS
MCP - MILITARY CONSTRUCITON PROJECT
IOE - INITIAL OPERATING EQUIPMENT

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. AFMC										
B. EDWARDS AFB, CA (2) SPRS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	300	NO	YES	NOV 98
C. ROBINS AFB, GA (3) SPRS BLDG 301	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	105	NO	YES	NOV 98
6. AFSPC										
B. PATRICK AFB, FL (1) BASE SUPPLY, FY98 MCP SXHT983006	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00	1	1,200	NO	YES	NOV 98
8. AMC										
L. RAMSTEIN AB, GE (2) AFT IB/OB SPHS	UNKNOWN	C/FFP	AFMC/ASC	JUL 99	AUG 00	1	6,000	NO	YES	NOV 98
(3) AIR FREIGHT TERMINAL MULTIPALLET HANDLING SYS	UNKNOWN	C/FFP	AFMC/ASC	JUL 99	AUG 00	1	2,500	NO	YES	NOV 98
M. MISC SAS (1) SQ OPS MCP'S	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00		600	NO	YES	DEC 98

D. REMARKS
MCP - MILITARY CONSTRUCITON PROJECT
IOE - INITIAL OPERATING EQUIPMENT

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
12. **USAFE**											
A. RAMSTEIN AB, GE (2) HIGH DENSITY STORAGE SYS MCP 10K PALLET JACKS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	JAN 00	1	250	NO	YES	NOV 98	
14. **US AIR FORCE WIDE**											
D. LOGMARS See Note on P-5 Exhibit.											

D. REMARKS MCP - MILITARY CONSTRUCITON PROJECT IOE - INITIAL OPERATING EQUIPMENT			
	P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 60	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$3.979	$5.713	$3.980	$2.016	$4.121	$4.210	$4.083	$4.160

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, etc. 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 down times for the equipment and the components they repair.

2. All items have an annual procurement value of less than $2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

		FY98		FY99	
NOMENCLATURE	NSN	QTY	DOLLARS	QTY	DOLLARS
Bending Machine, Tube	3441-00-938-4573	2	.835	1	.426
Bending Machine, Pipe	3441-01-115-7636	1	.327		
Lathe, Chucker	3416-01-119-5345	5	.843	1	.172
Boring-Milling-Drilling Machine	3411-01-160-5457	6	.350	6	.350
Welding Machine, Arc	3431-00-846-9636	14	.244	28	.488
Saw, Circular Table	3220-00-541-4249	28	.232		
Electrical Discharger	3410-01-219-3713	1	.296		
Flaring and Beading	3441-00-528-8680	7	.275		
Shearing Machine, Metal	3445-00-263-0079	9	.292		
Shearing Machine, Metal	3445-01-354-2951	4	.286	2	.142
Press, Arbor, Power-O	3442-01-368-6698			51	.187
Press, Break, Power-O	3441-00-812-5217			1	.070
Threading Machine, Pipe	3419-01-260-5481			10	.181
TOTAL			3.980		2.016

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.240			.440
FY97			1.500			.790
FY98			.650			.120
FY99			.412			.387

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$0.215	$0.605	$3.692	$2.395	$2.582	$2.433	$2.410	$2.508

1. Generators provide primary and/or utility power to alert hangars, communications systems, radar systems, field hospitals, control towers, maintenance shops, runway lighting, cold storage plants, sewage disposal systems, beacons, direction finding equipment, and any applications where primary and backup power is required.

2. The generator program includes funds for replacements as well as shortages. The current fleet of generators is over-age and nonsupportable, has high repair costs, is of a non-DoD standard design, and does not meet current user requirements. The average age of these generators exceeds projected life expectancy, and repair is no longer economically feasible. Depot repair has been terminated for many older generators due to excessive repair costs and non-availability of parts.

3. Procurement of the DoD's standard family of Tactical Quiet Generators (TQG) introduces a new family of generators (sizes 5 through 200 kilowatt) into the Air Force inventory that will satisfy the following user requirements:

a. reduced detection by threat forces (low operating noise and infrared suppression).

b. improved mobility (lighter weight).

c. improved reliability (lower operating and support costs).

d. improved survivability (high altitude electromagnetic pulse protection).

e. single fuel on the battle field (JP8).

4. The FY97-99 program funds three types of generators:

a. **POWER PLANT, 60KW/400HZ (AN/MJQ-1632) NSN 6115-01-364-0157.** This power plant system includes two 60 kilowatt, 400 hertz tactical quiet generators (TQGs) mounted on a 5-ton trailer. Each generator is capable of running eight hours without refueling and contains a fuel connection to use a remote source. The power plant will be used to support a wide array of command, control, communications, and intelligence equipment which are critical to the successful execution of an air campaign. This power plant is used by Air Combat Command (ACC) to power radar and ancillary equipment. These plants will also support the Pacific Air Forces (PACAF) Forward Air Control Post (FACP), Air Support Operations Center (ASOC) shelters and Adaptive Surface Interface

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE GENERATORS, MOBILE ELECTRIC				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

Terminal (ASIT) Van. Stable reliable power is needed by the FACP's high power tactical radar to identify hostile intruder aircraft and to direct and control friendly air forces. These generators provide power to operate sensitive electronic equipment in all the ASOC shelters and provide environmental control for seasonal temperature extremes thus allowing deployed ASOC personnel to accomplish their mission as air liaison to the supported Army Corps and battlefield oversight for the whole close air support scenario. The 400 hertz power allows the ASIT van to downlink the overall air picture from an Airborne Warning and Control Systems (AWACS) aircraft for use by the air component commander. The 400KW power generator will replace the current aging gas turbine power plants which are becoming unreliable. FY98 and 99 funds procure 16 and 17 power plants respectively.

b. **GENERATOR, 100KW/60HZ (MEP 807A) NSN 6115-01-296-1463**. This DoD standard liquid cooled generator set provides 100 kilowatts of power at 60 hertz for alert hangars, microwave test range support, hospitals, runway lights, ground control approach backup, control towers and maintenance facilities supporting multiple aircraft. Repair of the current generator, the MB-16, was terminated in Sep 91 due to excessive cost and non-availability of parts. FY97-99 funds procure 8, 34 and 10 MEP 807A generators respectively.

c. **GENERATOR, 200KW/60HZ (MEP 809A) NSN 6115-01-296-1462.** This tactical quiet generator provides 200 kilowatts of power at 60 hertz. Its applications include microwave test range support, control towers, communications, field hospitals, ground satellite terminals, water purification units, and schools. This generator which is diesel engine driven, high-altitude electromagnetic pulse protected and noise suppressed is also used in cases of national disasters where power is required to immediately support relief and rescue efforts. FY97-99 funds procure 8, 30 and 15 MEP 809A generators respectively.

5. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			.164			.082
FY98			.856			-
FY99			.832			-

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	90	64	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME GENERATORS, MOBILE ELECTRIC	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
a. Power Plant, 60KW/400HZ (AN/MJQ-1632)	A							16	81,428	1,303	17	83,181	1,414
b. Generator, 100KW/60HZ (MEP 807A)	A				8	32,704	262	34	33,408	1,136	10	34,144	341
c. Generator, 200KW/60HZ (MEP 809A)	A				8	40,880	327	30	41,760	1,253	15	42,680	640
d. Data/Tech Manuals	A						16						
TOTAL				215*			605			3,692			2,395

*EPA restrictions disallowed procurement on all 30KW and 60KW MEP 805A, MEP-815A, MEP-860A and MEP-816A generators in FY96. FY96 funds will be used for below threshold reprogramming on other OPAF P-1 lines.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	90	65	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
POWER PLANT, 60KW/400HZ (AN/MJQ-1632)										
FY95	ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR/C/FP	AFMC/SMALC	DEC 94	FEB 97	12	76,243			
FY98	ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR CM3/FP (1st Yr)	AFMC/SMALC	NOV 97	DEC 98	16	81,428	YES	NO	
FY99	ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR OPT/FP (2nd Yr)	AFMC/SMALC	NOV 98	FEB 99	17	83,181	YES	NO	

REMARKS:
1. FY95 CONTRACT WAS TERMINATED AT CONVENIENCE OF THE GOVT. NEW PURCHASE REQUEST WAS SUBMITTED JUN 96 USING FY95 FUNDS.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
90	66	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
GENERATOR,100KW/60HZ (807A)										
FY95 [1]	ARMY/ATCOM UNKNOWN	MIPR/C/FP	AFMC/SMALC	MAY 97	AUG 97	36	32,000	YES	NO	
FY97	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUN 97	DEC 97	8	32,704	YES	NO	
FY98	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 98	DEC 98	34	33,408	YES	NO	
FY99	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 99	DEC 99	10	34,144	YES	NO	
GENERATOR,200KW/60HZ (809A)										
FY95 [1]	ARMY/ATCOM UNKNOWN	MIPR/C/FP	AFMC/SMALC	MAY 97	AUG 97	33	40,000	YES	NO	
FY97	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUN 97	DEC 97	8	40,880	YES	NO	
FY98	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 98	DEC 98	30	41,760	YES	NO	
FY99	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 99	DEC 99	15	42,680	YES	NO	

REMARKS:
1. FY95 CONTRACT WAS TERMINATED AT CONVENIENCE OF THE GOVT. NEW PURCHASE REQUEST WAS SUBMITTED JUN 96 USING FY95 FUNDS.

REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

DATE: FEBRUARY 1997
P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTEC, POWER PLANT, 60KW/400HZ, (AN/MJQ-1632)

ASSETS	
On Hand as of 31 Mar 96	20
Due-in w/all Prior Years' Funds	12
Due-in w/FY97 Funds	0
TOTAL ASSETS:	32

USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	32

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	0
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	51
Air National Guard Requirement	68
Air Force Reserve Requirement	0
TOTAL REQUIREMENT	119
APPROVED ACQUISITION OBJECTIVE	119

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	119
Less Net Assets	32
Required FY98 Procurement	87
Planned FY98 Procurement	16
Total FY99 Requirement	119
Less Net Assets	32
Less FY98 Planned Procurement	16
Required FY99 Procurement	71
Planned FY99 Procurement	17

REMARKS:

~~P-1 SHOPP~~ LIST
~~ITEM NO~~. 90

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: SEPTEMBER 1996

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC 100KW/60HZ (MEP 807A)

ASSETS	
On Hand as of 31 Mar 96	943
Due-in w/all Prior Years' Funds	36
Due-in w/FY97 Funds	8
TOTAL ASSETS:	987
DISPOSAL (Planned & Projected thru FY98 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL DISPOSALS (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	987
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	277
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	669
Air National Guard Requirement	87
Air Force Reserve Requirement	7
TOTAL REQUIREMENT	1040
APPROVED ACQUISITION OBJECTIVE	1040
PROCUREMENT REQUIREMENT	
Total FY98 Requirement	1040
Less Net Assets	987
Required FY98 Procurement	53
Planned FY98 Procurement	34
PROCUREMENT REQUIREMENT	
Total FY99 Requirement	1040
Less Net Assets	987
Less FY98 Planned Procurement	34
Required FY99 Procurement	19
Planned FY99Procurement	10

REMARKS:

P-1 SHOPP LIST
ITEM NO. 90

REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC 200KW/60HZ (MEP 809A)

ASSETS	
On Hand as of 31 Mar 96	595
Due-in w/all Prior Years' Funds	33
Due-in w/FY97 Funds	8
TOTAL ASSETS:	636

USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	636

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	36
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	542
Air National Guard Requirement	118
Air Force Reserve Requirement	24
TOTAL REQUIREMENT	720
APPROVED ACQUISITION OBJECTIVE	720

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	720
Less Net Assets	636
Required FY98 Procurement	84
Planned FY98 Procurement	30
Total FY99 Requirement	720
Less Net Assets	636
Less FY98 Planned Procurement	30
Required FY99 Procurement	54
Planned FY99 Procurement	15

REMARKS:

P-1 SHOPP LIST
ITEM NO. 90

FY98/99 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: GENERATOR, MOBILE ELECTRIC	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	96 OCT	96 NOV	96 DEC	FISCAL YEAR 97 CALENDAR YEAR 97 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 98 CALENDAR YEAR 98 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR 99 CALENDAR YEAR 99 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
PWR PLANT (AN/MJQ-1632)																																										
FY95	AF	12	0	12					4	4	4																															0
FY98	AF	16	0	16														C																								0
FY99	AF	17	0	17																																						0
TOTAL POWER PLANT		45	0	45					4	4	4																															0
GENERATOR, MEP 807A																																										
FY95	AF	36	0	36								C			21	15																									0
FY97	AF	8	0	8									C						8																						0
FY98	AF	34	0	34																																						0
FY99	AF	10	0	10																																						10
TOTAL MEP 807A		88	0	88											21	15			8																						10
GENERATOR, MEP 809A																																										
FY95	AF	33	0	33								C			21	12																									0
FY97	AF	8	0	8									C						8																						0
FY98	AF	30	0	30																																						0
FY 99	AF	15	0	15																																						15
TOTAL MEP 809A		86	0	86											21	12			8																						15
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
AN-MJQ-1632									
Tobyhanna Army Depot, PA					INITIAL				
MEP 807/809 - UNKNOWN					REORDER				

REMARKS:
GENERATOR PRICING AND PRODUCTION SCHEDULES PROVIDED BY ARMY/ ATCOM.

P-1 SHOPPING LIST
ITEM NO. 90

FY98/99 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE: GENERATOR, MOBILE ELECTRIC																																					DATE: FEBRUARY 1997	
ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00														FISCAL YEAR 01												FISCAL YEAR 02												LATER
					99 OCT	99 NOV	99 DEC	CALENDAR YEAR 00 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CALENDAR YEAR 01 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CALENDAR YEAR 02 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PWR PLANT (AN/MJQ-1632)																																									
FY95	AF	12	12	0																																						0
FY98	AF	16	16	0																																						0
FY99	AF	17	17	0																																						0
TOTAL POWER PLANT		45	45	0																																						0
GENERATOR, MEP 807A																																									
FY95	AF	36	36	0																																						0
FY97	AF	8	8	0																																						0
FY98	AF	34	34	0																																						0
FY99	AF	10	0	10			10																																			0
TOTAL MEP 807A		88	78	10			10																																			0
GENERATOR, MEP 809A																																									
FY95	AF	33	33	0																																						0
FY97	AF	8	8	0																																						0
FY98	AF	30	30	0																																						0
FY 99	AF	15	0	15			15																																			0
TOTAL MEP 809A		86	71	15			15																																			0
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
AN-MJQ-1632 Tobyhanna Army Depot, PA					INITIAL					GENERATOR PRICING AND PRODUCTION SCHEDULES PROVIDED BY ARMY/ ATCOM.
					REORDER					

P-1 SHOPPING LIST
ITEM NO.90

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE FLOODLIGHTS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	.009	-	$7.696	$10.725	$13.777	$7.518	$7.199	$7.316

Floodlights are essential for performing night maintenance on aircraft, for loading and unloading aircraft cargo, and for emergency lighting. They are also required for perimeter defense, emergency disaster coverage, aircraft accident on-site investigations, lighting entry gate areas and perimeters of secured areas in support of security police operations, and for rapid runway repairs. Floodlight sets are mobile and permanently mounted on a four-wheel trailer type chassis consisting of a tower with two 1,000 watt floodlights mounted on it, power distribution equipment, a diesel engine-driven generator set, and metal storage space for protection/storage of the components and technical manuals.

1. The current NF-2D Floodlight Cart was procured as early as 1960 and some of the units are still in the inventory. All currently fielded NF-2Ds have exceeded their useful service life which is approximately 12 years. Spare parts are no longer available for repair of the floodlight set. An attempt was made to replace the NF-2 Floodlight Cart in the early 1980s with a commercial item, model TF-1. However, it was designed for use in lighting construction sites and was not compatible with the aircraft maintenance environment. After many attempts were made to improve the TF-1's aircraft maintenance compatibility, it was concluded that the TF-1 could not support Air Force weapon systems.

2. Procurement of the new FL-1D Floodlight, which will replace the NF-2D, will ensure continued support for weapon system maintenance. Weapon system maintenance performed at forward operating locations must have a lighting system that does not unnecessarily burden the deployment footprint or logistics support. Procuring this item will ensure that this support is available when needed in both the short and long term.

3. The new floodlight set consists of a tower for mounting two 1000 watt floodlights, power distribution equipment, a diesel engine-driven generator set, and metal storage space for protection/storage of the components and technical manuals. This new floodlight is permanently mounted on a four-wheel trailer type chassis.

4. Item Code: A.

	P-1 SHOPP LIST ITEM NO. 91	PAGE NO. 73	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE FLOODLIGHTS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

5. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			-			-
FY98			.368			1.398
FY99			.313			1.428

	P-1 SHOPP LIST ITEM NO. 91	PAGE NO. 74	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: FLOODLIGHTS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FL-1D FLOODLIGHT										
FY87	UMC ELECTRIC NORTH HAVEN, CT	C/FP	AFMC/SA-ALC	JUN 88	NOV 91	199	6,474			
FY97	UNKNOWN	C/FFP	AFMC/SA-ALC	MAR 97	MAR 98	2	18,000 [1]	YES	NO	
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 97	APR 98	627	12,274 [2]	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 98	APR 99	856	12,529 [2]	YES	NO	

D. REMARKS:
1. FUNDED IN ITEMS LESS THAN $2 MILLION (ELECTRICAL EQUIPMENT), P-1 LINE #92.
2. UNIT COST BASED ON ENGINEERING ESTIMATE.

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: FLOODLIGHTS
FL-1D FLOODLIGHT

ASSETS	
On Hand as of 31 Mar 96	5272
Due-in w/all Prior Years' Funds	0
Due-in w/FY97 Funds	2
TOTAL ASSETS:	5274
USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	40
FY00:	480
FY01:	0
TOTAL USAGE (___MONTHS)	520
PROCUREMENT LEADTIME: 17 months	
NET ASSETS:	4754

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	944
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	4045
Air National Guard Requirement	1302
Air Force Reserve Requirement	384
TOTAL REQUIREMENT	6675
APPROVED ACQUISITION OBJECTIVE	6675

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	6675
Less Net Assets	4754
Required FY98 Procurement	1921
Planned FY98 Procurement	627
Total FY99 Requirement	6675
Less Net Assets	4754
Less FY98 Planned Procurement	627
Required FY99 Procurement	1294
Planned FY99 Procurement	856

REMARKS:

P-1 SHOPP LIST
ITEM NO. 91

| FY98/99 BUDGET PRODUCTION SCHEDULE | | P-1 ITEM NOMENCLATURE: FL-1D FLOODLIGHT | | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | P-1 ITEM NOMENCLATURE: FL-1D FLOODLIGHT | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (ELECTRICAL EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$.526	$3.422	$3.968	$2.810	$3.928	$3.984	$3.871	$3.939

1. This line 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, test ranges and the medical War Readiness Material (WRM) Program.

2. All items have an annual procurement value of less than $2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

		FY98		FY99	
NOMENCLATURE	NSN	QTY	DOLLARS	QTY	DOLLARS
Generator, MEP 803A	6115-01-275-5061	40	.475	49	.595
Generator, MEP 805A	6115-01-274-7389	50	.757	60	.927
Generator, MEP 816A	6115-01-274-7395	15	.321		
Generator, MEP 831A	6115-01-285-3012	100	.361	308	1.137
Power Plant, AN/MJQ-40	6115-01-299-6033	9	.582		
Power Unit, PU-803	6115-01-317-2136	43	1.211		
Federal Stock Class (FSC) 2530			.261		.151
TOTAL			3.968		2.810

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.140			.140
FY97			1.500			.790
FY98			1.300			.183
FY99			.600			.090

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	92	79	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: BASE PROCURED EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$4.739	$5.988	$6.855	$5.800	$5.850	$5.900	$.960	$1.100

1. Bases and units throughout the Air Force require and are authorized equipment that must be acquired directly from General Services Administration (GSA), Defense Logistics Agency (DLA), one of the other services, or from commercial concerns. This results from federal policy to relieve the services of wholesale management of non-military and commercial items to reduce cost. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing $100,000 or more which is not centrally procured and managed. Included are roads and grounds maintenance equipment; vehicle maintenance shop equipment; specialized tool kits and test equipment; civil engineering maintenance, electrical, and carpenter shop equipment; specialized laboratory equipment; food service equipment; printing plant equipment; refrigerators, freezers, and air conditioning equipment; heating equipment; microfilm equipment; copiers and duplicators; and communications equipment.

2. The equipment described above is needed for day-to-day maintenance and operation of bases, weapons and support systems and for support of both active and air reserve forces. The program supports hundreds of installations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; reorganizations; natural disasters; new operational methods to increase efficiency and safety; and energy conservation initiatives. Examples are: (1) Upgrading kitchen and dining facilities; (2) Installing utility monitoring systems to increase efficiency and reduce cost; (3) Installing aircraft and vehicle corrosion control equipment; (4) Procuring support equipment for beddown of new weapon systems; and (5) Procuring automation equipment to reduce the cost of data processing, storage, retrieval and distribution.

3. FY98/99 BPE resources programmed by Air Force major commands and/or field operating agencies are displayed on the following P-5 Budget Exhibit.

4. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.210			-
FY97			-			-
FY98			.800			-
FY99			-			-

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	93	80	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE PROCURED EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Vendors

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Air Mobility Command	A			276			583			340			350
Air Combat Command	A			1,353			1,988			3,000			3,000
Pacific Air Forces	A			635			600			320			-
US Air Forces in Europe	A			363			600			625			650
Air Education &Training Cmd	A			385			400			540			550
Air Force Comm Agency	A			222			-			250			250
Air National Guard	A			210			-			800			-
US Air Force Academy	A			713			200			240			250
Air Force Space Command	A			386			388			500			500
AF Special Operations Cmd	A			418			200			240			250
AF Ofc of Spec. Investigations	A			-			100			-			-

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME BASE PROCURED EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Vendors

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Air Force Materiel Command	A			-			729			-			-
11th Support Wing	A			-			200			-			-
TOTAL				4,739			5,988			6,855			5,800

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	93	82	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$12.389	$15.254	$13.295	$12.443	$12.841	$13.062	$6.443	$6.302

The Medical/Dental Equipment line provides war reserve material (WRM) in support of Air Force medical readiness/contingency requirements. The equipment is directly related to the care of individuals injured in combat with the objective of reducing the mortality rate and returning injured persons to their wartime duties as soon as possible.

1. The following WRM equipment is funded by this program:

a. **AIR TRANSPORTABLE HOSPITAL (ATH)**

(1) **CHEMICALLY HARDENED AIR TRANSPORTABLE HOSPITAL (CHATH):** Multi-component equipment project. Prior year funding procured the first four airlocks which will be joined with the first four hospital equipment sets currently in WRM storage. These airlocks allow the movement of medicine, food, water, and the removal of wastes in/out of the ATHs without compromising hospital cleanliness or chemical/biological protection. These airlocks improve contamination control, temperature control, and chemical protection. Prior year funding also includes procurement of liner sets for four ATHs. Additional procurement of multi-component equipment for the ATH will continue FY97-99.

(2) **CHEMICALLY HARDENED AIR MANAGEMENT PLANTS (CHAMPS):** Significant component of the CHATH. CHAMPS adds to the chemically/biologically hardened environment of the ATH by providing contained air management. CHATH improves protection against chemical/biological agents, enhances environmental cleanliness, and helps prevent nosicomial infection. It allows medical personnel to deploy and setup in a chemical/biological threat area while minimizing the impact on medical operations. FY96-99 funding continues procurement of CHAMPS.

b. **TRANSPORTABLE BLOOD TRANSSHIPMENT CENTER (TBTC):** These centers are designed for the transport and storage of liquid and frozen blood. Each center provides the capability to store 7,200 units of liquid blood and 432 units of frozen blood for use in the treatment of combat injured personnel. FY96 fund completes funding for this requirement.

c. **DEFENSE BLOOD STANDARD SYSTEM (DBSS):** DOD-wide automated blood informtion management system for all elements of the Air Force blood program. DBSS will allow management of blood program operations such as collecting, manufacturing, testing, processing, freezing, storing, shipping, distributing, and issuing blood and blood products. FY96 completes funding for this program.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE MEDICAL DENTAL EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

d. **PATIENT VENTILATOR SYSTEMS:** These are respirator systems for intra-theater/inter-theater air evacuation of patients requiring ventilator support. Systems include ventilator, patient monitors, and aircraft adapters; providing transport capable ventilators. FY96-98 funding procures a total of 655 ventilators. No FY99 funds requested.

e. **AIR TRANSPORTABLE HOSPITAL (ATH) WATER DISTRIBUTION SYSTEM (ATH H2O):** Potable water/ waste water distribution system to support ATHs. FY98 and 99 funds will procure 10 in each year.

f. **CIVIL RESERVE AIR FLEET (CRAF) SHIPSETS:** The shipsets are aircraft reconfiguration kits that will reconfigure commercial aircraft to an aeromedical configuration to carry litter patients, ambulatory patients, medical crews, and flight attendants in wartime or significant contingency operations. FY98 funding will procure 13 shipsets and FY99 funding will procure 12.

g. **SPINAL CORD INJURY TRANSPORT SYSTEM (SCITS):** This integrated transport system is for air evacuation of critical patients. Units are self-contained with capability to provide oxygen, suction, pressure ventilation, and monitoring of life parameters. FY98 and 99 funds will procure 20 and 73 units respectively.

h. **THEATER MEDICAL INFORMATION PROGRAM (TMIP):** This Integrated program consolidates all DOD medical information systems. FY99 funds begins procurement of automation equipment to support this program.

i. **MISCELLANEOUS WRM EQUIPMENT:** FY96-99 funding provides for normal replacement of miscellaneous centrally-managed equipment items.

2. ANG/AFR: None.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MEDICAL/DENTAL EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. WRM Equipment													
a. ATH				(2,000)			(11,567)			(5,906)			(2,726)
1. CHATH	A				VAR	N/A	4,567	VAR	N/A	2,400	VAR	N/A	1,000
2. CHAMPS	A	20	100	2,000	70	100	7,000	35	100	3,506	17	100	1,726
b. TBTC	A	1	1,364	1,364									
c. DBSS	A	VAR	N/A	2,399									
d. Patient Ventilator Sys	A	110	11	1,126	215	10	2,146	340	9	3,000			
e. ATH H2O	A							10	100	1,000	10	100	1,000
f. CRAF Shipsets	A							13	176	2,293	12	176	2,117
g. SCITS	A							20	20	400	73	20	1,450
h. TMIP	A										VAR	N/A	4,936

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	94	85	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME MEDICAL/DENTAL EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
i. Misc WRM Equipment	A	VAR	N/A	5,500	VAR	N/A	1,541	VAR	N/A	696	VAR	N/A	214
TOTAL				12,389			15,254			13,295			12,443

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE MEDICAL/ DENTAL EQUIPMENT							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
1. WRM EQUIPMENT											
A. ATH											
1. CHATH											
FY97	MULTIPLE [1]	C/FP	AFMC/HSC [2]	MULTI	MULTI	VAR	N/A	YES	NO		
FY98	MULTIPLE [1]	C/FP	AFMC/HSC	MULTI	MULTI	VAR	N/A	YES	NO		
FY99	MULTIPLE [1]	C/FP	AFMC/HSC	MULTI	MULTI	VAR	N/A	YES	NO		
2. CHAMPS											
FY96	ENGINEERED AIR SYSTEMS	OPT/FP [3]	AFMS/HSC	SEP 96	JUL 97	20	100				
FY97	ENGINEERED AIR SYSTEMS	OPT/FP [3]	AFMC/HSC	OCT 96	DEC 97	70	100				
FY98	ENGINEERED AIR SYSTEMS	OPT/FP [3]	AFMC/HSC	OCT 97	DEC 98	35	100	YES	NO		
FY99	ENGINEERED AIR SYSTEMS ST LOUIS, MO	OPT/FP [3]	AFMC/HSC	OCT 98	OCT 99	17	100	YES	NO		
B. TBTC											
FY96	MULTIPLE	C/FP	AFMC/HSC	NOV 96	JAN 97	1	1,364				

D. REMARKS
1. MULTIPLE CONTRACT AWRARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
2. AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.
3. AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.
4. ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.
5. AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE MEDICAL/ DENTAL EQUIPMENT							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
C. DBSS											
FY96	ARMY/ISSAA [4] CORDANT, INC RESTON VA	MIPR/OPT	AFMC/HSC	NOV 95	JUL 96	VAR	N/A				
D. PATIENT VENTILATOR SYSTEM											
FY96	UNKNOWN	C/FP	AFMLO [5]	FEB 97	JUN 97	110	11	YES	NO		
FY97	UNKNOWN	OPT/FP	AFMLO	FEB 97	JUN 97	215	10	YES	NO		
FY98	UNKNOWN	OPT/FP	AFMLO	FEB 98	JUN 98	340	9	YES	NO		
E. ATH/H2O											
FY98	UNKNOWN	C/FP	AFMLO	JUN 98	DEC 98	10	100	NO	YES	NOV 97	
FY99	UNKNOWN	OPT/FP	AFMLO	JUN 99	DEC 99	10	100	NO	YES	NOV 98	

D. REMARKS
1. MULTIPLE CONTRACT AWRARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
2. AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.
3. AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.
4. ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.
5. AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	94	88	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: MEDICAL/ DENTAL EQUIPMENT

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
F CRAF SHIPSETS										
FY98	UNKNOWN	C/FP	AFMC/HSC	JUL 98	FEB 99	13	176	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/HSC	JUL 99	FEB 00	12	176	YES	NO	
G. SCITS										
FY98	UNKNOWN	C/FP	AFMC/HSC	JAN 98	MAR 98	20	20	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/HSC	FEB 99	AUG 99	73	20	YES	NO	
H. TMIP										
FY99	UNKNOWN	C/FP	AFMC/HSC	MAR 99	SEP 99	VAR	N/A	YES	NO	
I. MISC WRM EQUIPMENT										
FY96	MULTIPLE [1]	C/FP	AFMLO	MULTI	MULTI	VAR	N/A			
FY97	MULTIPLE [1]	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO	
FY98	MULTIPLE [1]	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO	
FY99	MULTIPLE [1]	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO	

D. REMARKS

1. MULTIPLE CONTRACT AWRARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
2. AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.
3. AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.
4. ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.
5. AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE ENVIRONMENTAL PROJECTS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	$.935	$1.000	$1.000	$1.000	$1.000	$1.000	$1.000

1. The Environmental Program includes projects to procure equipment necessary to support environmental compliance and pollution prevention laws, executive orders, regulations and goals. This program provides equipment related to reducing hazardous material use, hazardous waste generation and release of pollutants into the environment. Included in this program is equipment that supports, solid and hazardous waste recycling, the elimination of Air Force use of ozone depleting chemicals (ODC), hazardous waste recovery and treatment, air pollution reduction, and organic waste composting. The equipment is required for day-to-day operations and supports projects that further the Air Force objective of improving management practices in all areas regarding the environment.

Individual Projects - Following are FY97 through FY99 projects:

Tinker AFB, OK Vacuum Vapor Degreaser System (FY97) - This equipment is required to recover volatile degreasing solvents used to clean jet engine components. This equipment will eliminate the release of toxic substances into the environment. Recovered solvents will be recycled and reused.

Hill AFB, UT Wood Grinder (FY97) - Equipment is required to process wood debris for reuse in composting and landscaping. This equipment will eliminate the generation of approximately 75 tons of construction debris and municipal solid waste per month.

Hill AFB, UT Plastic Media Blast System (FY97) - Aircraft paint removal is currently accomplished using a chemical stripping process producing hazardous waste which must be treated/disposed. This equipment uses non-hazardous plastic media to accomplish stripping operations eliminating the use of chemical strippers and reducing the generation of hazardous waste.

Robins AFB, GA Separation/Filtration System (FY97) - The heat treatment and quenching process of aluminum alloy aircraft parts is currently accomplished using a water and quenchant (cooling) solution. As the quenching solution goes out of tolerance it is replaced/disposed. This equipment will allow the separation and recycling of the quenching solution for reuse.

Tinker AFB, OK Aluminum Vapor Plating System (FY98) - Plating of jet engine turbine components is currently accomplished using a traditional tank plating process. This equipment will accomplish aluminum plating via a chemical vapor plating process, eliminating the use of heavy metals and large volumes of plating solutions, resulting in a reduction of hazardous waste generation.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE & SUPPORT EQ			P-1 ITEM NOMENCLATURE ENVIRONMENTAL PROJECTS					
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

Robins AFB, GA Paint Stripping System (FY99) - Aircraft radome paint removal is currently accomplished using a chemical stripping process which results in release of Volatile Organic Compounds (VOCs) and generation of hazardous waste. This equipment uses a flashjet (heat) stripping process reducing release of VOCs and generation of hazardous waste.

2. ANG/AFR: None.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME ENVIRONMENTAL PROJECTS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE CONTRACTORS

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Tinker AFB Vacuum Vapor Degreaser	A						250						
Hill AFB Wood Grinder	A						175						
Hill AFB Plastic Media Blast System	A						330						
Robins AFB Separation/Filtration System	A						180						
Tinker AFB Aluminum Vapor Deposition System	A									1000			
Robins AFB Paint Stripping System	A												1000
				0			935			1,000			1,000

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	95	92	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY2003
QUANTITY								
COST (In Mil)	$2.922	$4.861	$4.214	$12.105	$12.626	$.354	-	-

Air Force operations depend on an infrastructure of installations to support the projection of aerospace power. Air Base Operability (ABO) is an ongoing program to provide the integrated capability needed to establish and maintain air base readiness during contingencies. ABO integrates and coordinates those unit operations that interact during a contingency to establish, maintain or restore the installation's capability to execute assigned missions. ABO includes the planning, organizing, training, equipping, and command and control necessary for the installation to function as a team during contingencies, e.g., emergencies involving military forces caused by natural disaster, major accidents, terrorists, subversives, or by military operations. The current ABO program includes a number of systems designed to improve the ability of installations to establish and maintain readiness during contingencies.

1. Following are FY96 - 99 ABO projects:

a. **DEPLOYABLE PAVEMENT REPAIR SYSTEM.** This project provides mixing/dispensing hardware for the rapid repair of cracks and small craters. Improvements over the folded fiberglass mat method include (1) reduced crater maintenance once repaired, (2) stability of the repair, (3) increased safety in fighter tail hook and heavy aircraft operations, and (4) elimination of mat anchoring difficulties in full-depth asphalt pavements. FY96 funding procures five (5) systems and FY97 six (6) systems completing the total requirement for 13 systems. No FY98/99 funding requested.

b. **DEPLOYABLE FIRE PROTECTION SYSTEM (DFPS)**: DFPS is a portable, stand-alone fire protection system designed to provide protection for hot pit refueling (equipment's engine remains running), high value facilities, and equipment. The system will augment the normal fire fighting equipment in a wartime environment by protecting aircraft during hot integrated combat turns and providing limited quick reaction protection for high value facilities/equipment during water outages. The system is activated by an optical flame detector which automatically detects fire, discharges an agent through an oscillating nozzle, and transmits an alarm over a radio network to the fire station control room. The system is self-contained, air transportable, and capable of being towed to any location to meet operational requirements. During hot pit refueling, the DFPS can begin applying an agent within ten seconds. The present protection consists of a truck and crew which can be up to one minute away. FY96-97 funding procures nine (9) and15 units respectively. The total Air Force requirement for this system is 86 units.

c. **RAPID ORDNANCE REMOVAL SYSTEM (RORS)**. This system provides explosive ordnance disposal capability to remove quantities of unexploded ordnance from aircraft operating surfaces, replacing hazardous and time consuming one-person/one-submunition clearance techniques. The system consists of a large blade mounted on a M-113 armored personnel carrier (GFE). Blade is capable of clearing both hard and soft surfaces. FY98 funding procures four (4) blades/assemblies. FY99 funding procures eight (8) blades/assemblies. Total requirement is 12 systems.

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	96	93	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY2003
QUANTITY								
COST (In Mil)							$0.000	$0.000

d. **SHELTERS/ENVIRONMENTAL CONTROL UNITS (ECUS).** These units replace an existing generation of aging shelters and ECUs with a new generation of portable shelter systems that are less airlift intensive while providing the same or better operational performance as the existing shelters. The system includes the shelter, insulation, flooring, utilities interfaces, environmental control systems and other necessary components necessary to bed down contingency base operational forces.

(1) **MEDIUM SHELTERS/ECUS**. FY98 funding procures two (2) medium shelters for commercial-off-the-shelf (COTS) proof-of-concept testing and evaluation. FY99 funding procures eight (8) shelters.

e. **DEPLOYABLE POWER GENERATION AND DISTRIBUTION SYSTEM**. This system provides a new family of bare base electric power generation and distribution equipment required to improve capability and reduce deployment requirements for Harvest Eagle/Harvest Falcon kits. It supports bare base prime (high voltage) and tactical (low voltage) power production and delivery including secondary distribution centers, secondary power distribution panels, transformers, controls, cabling, and ancillary support equipment. FY98 funding procures one (1) system for COTS proof-of-concept testing and evaluation. FY99 funding procures two (2) systems.

f. **EXPLOSIVE ORDNANCE DEVICE (EOD) SUPPORT EQUIPMENT.** This equipment provides tools to defeat various improvised explosive devices, e.g., letter bombs, pipe bombs, truck bombs. FY98 and 99 funding will each procure three (3) systems.

g. **LIGHTWEIGHT MATTING.** This program provides deployable, lightweight, structural matting on airfield operating surfaces for installation over repairs or originally placed materials. It also provides flooring for deployed facilities such as command and control, maintenance, supply, billeting, messing and medical. FY99 funding will procure 50 commercial quality mats for testing which are more durable, lighter and cheaper.

h. **REVERSE OSMOSIS WATER PURIFICATION UNIT (ROWPU).** The ROWPU provides critical water purification capability to support deployment to remote locations. It removes suspended and dissolved solids from nearly any water source. FY99 provides funding for three (3) systems for COTS proof-of-concept testing and evaluation.

2. ANG/AFR: None.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AIR BASE OPERABILITY	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST ($K)	TOTAL COST	QTY	UNIT COST ($K)	TOTAL COST	QTY	UNIT COST ($K)	TOTAL COST	QTY	UNIT COST ($K)	TOTAL COST
a. Deployable Pavement Repair System	A	5	410	2,051	6	534	3,201						
b. DFPS	A	9	97	871	15	111	1,660						
c. RORS	A							4	220	880	8	520	4,160
d.1. MediumShelters/ECUs	A							2	100	200	8	142	1,139
e. Deployable Power Gen and Dist System	A							1	2,484	2,484	2	2,653	5,306
f. EOD Spt Equipment	A							3	217	650	3	217	650
g. Lightweight Matting	A										50	10	500
h. ROWPU	A										3	117	350
TOTAL				2,922			4,861			4,214			12,105

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
A. DEPLOYABLE PAVEMENT REPAIR SYSTEM										
FY96	ENTWISTLE	OPT/FP [1]	AFMC/ASC	APR 97	OCT 97	5	410	YES	NO	
FY97	ENTWISTLE BOSTON MA	OPT/FP [1]	AFMC/ASC	APR 97	DEC 97	6	534	YES	NO	
B. DFPS										
FY96	ENTWISTLE	OPT/FP [2]	AFMC/ASC	JAN 98[3]	SEP 98	9	97	YES	NO	
FY97	ENTWISTLE BOSTON MA	OPT/FP [2]	AFMC/ASC	AUG 98	JAN 99	15	111	YES	NO	
C. RORS										
FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	MAY 98	4	220	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	8	520	YES	NO	
D.1. MEDIUM SHELTERS/ECUS										
FY98	UNKNOWN	C/FFP	AFMC/ASC	DEC 97	MAY 98	2	100	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	MAY 99	8	142	YES	NO	

D. REMARKS:
1. OPTION TO A C/FPIF CONTRACT AWARDED 18 DEC 92.
2. OPTION TO PRIOR YEAR COMPETITIVE CONTRACT.
3. DELAYED CONTRACT AWARD DUE TO CONTRACTOR REDESIGN DIFFICULTIES WITH DETECTOR AND SELF-AIMING NOZZLE.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
96	96	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
E. DEPLOYABLE POWER GENERATION AND DISTRIBUTION											
FY98	UNKNOWN	C/FFP	AFMC/ASC	AUG 98	DEC 98	1	2,484	YES	NO		
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	DEC 98	2	2,653	YES	NO		
F. EOD SPT EQUIPMENT											
FY98	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	AUG 98	3	217	YES	NO		
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	MAY 99	3	217	YES	NO		
G. LIGHTWEIGHT MATTING											
FY99	UNKNOWN	C/FFP	AFMC/ASC	MAR 99	SEP 99	50	10	YES	NO		
H. ROWPU											
FY99	UNKNOWN	C/FFP	AFMC/ASC	NOV 98	APR 99	3	117	YES	NO		

D. REMARKS:
1. OPTION TO A C/FPIF CONTRACT AWARDED 18 DEC 92.
2. OPTION TO PRIOR YEAR COMPETITIVE CONTRACT.
3. DELAYED CONTRACT AWARD DUE TO CONTRACTOR REDESIGN DIFFICULTIES WITH DETECTOR AND SELF-AIMING NOZZLE.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	96	97	

| FY97 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY | | | | |

| FY97 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$3.329	$8.554	$1.189	$3.464	$3.704	$3.916	$3.806	$3.876

1. The HCU-6/E Air Cargo Pallet measures 108" x 88" and is constructed of an aluminum rail (frame) with aluminum thermally bonded to a balsa wood core. It is designed for operation in the 463L Cargo Handling System which standardizes specialized material handling vehicles (forklifts, K-Loaders and pallet dollies) and equipment (pallets) with the Air Force fleet of cargo aircraft (C-5, C-141, C-130, C-17 and KC-10) they support.

2. Pallets are an integral part of the military airlift system. They facilitate the maximum use of scarce airlift assets by allowing the pre-loading of aircraft cargo floors prior to the arrival of the airlift aircraft. For example, loading a C-141 aircraft with a maximum complement of cargo which is pre-palletized takes from one to two hours and a loading crew of four to five people. To load the same amount of cargo onto the aircraft without pallets would take eight to ten hours with the same crew (some types of cargo could not be loaded without pallets). Without sufficient 463L pallets, the military airlift system will not function efficiently and rapid go-to-war capabilities will be lost.

3. A typical cycle for a pallet headed for a war zone is (a) from the unit where cargo is loaded and restrained for flight, to (b) the flightline where it is staged pending arrival of the cargo aircraft, to (c) the cargo aircraft for the trip to the theater of operations where (d) it is offloaded from the aircraft and moved to a location where (e) the cargo is offloaded by the owning unit as they prepare for employment scenarios. The empty pallet is then aggregated with other empty pallets, loaded on returning cargo aircraft, and delivered to units that are moving later in the deployment flow.

4. Item Code: A

5. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96	75		.062	25		.021
FY97	27		.022	81		.067
FY98	26		.023	75		.068
FY99	27		.023	80		.069

	P-1 SHOPP LIST ITEM NO. 97	PAGE NO. 100	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
PALLET, AIR CARGO										
FY96	AAR CADILLAC CADILLAC, MI	OPT/FFP [1]	AFMC/WRALC	NOV 95	JAN 96	4,000	832			
FY97	AAR CADILLAC CADILLAC, MI	OPT/FFP [1]	AFMC/WRALC	DEC 96	JAN 97	4,272	832			
FY98	UNKNOWN	C/FP	AFMC/WRALC	JAN 98	OCT 98	1,311	907 [2]	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/WRALC	NOV 98	DEC 98	4,000	866 [2]	YES	NO	

D. REMARKS
1. FY96 AND FY97 ARE OPTIONS ON CONTRACT FO9803-94C-1068, AWARDED SEP 94. TIME PERIOD FOR OPTION WAS EXTENDED ALLOWING OPTION FOR FY97 VICE NEW CONTRACT.
2. FY98 AND FY99 ARE ESTIMATED PRICES.

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO

ASSETS

On Hand as of 31 Mar 96	171407
Due-in w/all Prior Years' Funds	80
Due-in w/FY97 Funds	4272
TOTAL ASSETS:	175759

DISPOSAL (Planned & Projected thru FY99 FDP)

FY97 since as of date:	1488
FY98:	8024
FY99:	1488
FY00:	5500
FY01:	0
TOTAL DISPOSALS (___MONTHS)	16500

PROCUREMENT LEADTIME: 12 months

NET ASSETS: 159259

ACTUAL TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE

Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	165000
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	9201
Air National Guard Requirement	656
Air Force Reserve Requirement	494
TOTAL REQUIREMENT	175351

APPROVED ACQUISITION OBJECTIVE 175351

PROCUREMENT REQUIREMENT

Total FY98 Requirement	175351
Less Net Assets	159259
Required FY98 Procurement	16092
Planned FY98 Procurement	1311
Total FY99 Requirement	175351
Less Net Assets	159259
Less FY98 Planned Procurement	1311
Required FY99 Procurement	14781
Planned FY99 Procurement	4000

REMARKS:

P-1 SHOPP LIST
ITEM NO. 97

FY98/99 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96	96	96	CALENDAR YEAR 97									CALENDAR YEAR 98												CALENDAR YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
PALLET, AIR CARGO																																								
FY96	AF	4000	4000	0																																				0
FY97	AF	4272	0	4272			C	2000	2000	272																														0
FY98	AF	1311	0	1311																C				FA	FAA				1000	311										0
FY99	AF	4000	0	4000																										C	2000	2000									0
TOTAL		13583	4000	9583				2000	2000	272																			1000	311	2000	2000									0
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
AAR CADILLAC			2000		INITIAL (FY98)	0	3	9	12	
CADILLAC, MI					REORDER (FY99)	0	1	1	2	
FY98/99 - UNKNOWN										

P-1 SHOPPING LIST
ITEM NO. 97

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE NET ASSEMBLY, 108" X 88"				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.939	$1.898	$2.998	$1.916	$1.742	$2.042	$2.043	$2.125

1. The net assembly, which is used to secure air-shipped cargo to the 108" X 88" pallet, consists of two side nets and one top net. These nets are constructed of nylon straps assembled in the form of webs with adjusting tie-down straps and buckles. The net assemblies are used in the following 463L equipped cargo aircraft: C-130, C-141, C-5, C-17 and KC-10.

2. The Air Force Military Airlift System is dependent on 463L Pallet and Net Sets. Use of these assets reduces aircraft ground time and increases airlift capabilities. Without these critical assets, the orderly and prompt movement of all Department of Defense cargo throughout the airlift system would be impeded and could ultimately affect the outcome of a battle or war.

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.081			.069
FY97			.030			.022
FY98			.032			.023
FY99			.032			.023

	P-1 SHOPP LIST ITEM NO. 98	PAGE NO. 104	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME NET ASSEMBLY, 108" X 88"	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Net Assembly, Top Net NSN 1670-00-969-4103CT	A	7,275	110.00	801	12,802	113.00	1,442	6,517	115.00	749	4,503	123.00	554
Net Assembly, Side Net NSN 1670-00-996-2780CT	A	12,199	93.00	1,138	4,810	95.00	456	23,422	96.00	2,249	12,971	105.00	1,362
TOTAL				1,939			1,898			2,998			1,916

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: NET ASSEMBLY, 108"X88"

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
NET ASSEMBLY, TOP NET										
FY96	KINEDYNE CORP LAWRENCE, KS	C/FP	AFMC/WRALC	NOV 96[1]	OCT 97	7,275	110.00			
FY97	KINEDYNE CORP LAWRENCE, KS	OPT/FP	AFMC/WRALC	FEB 97	JAN 98	12,802	113.00	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WRALC	JUN 98	APR 99	6,517	115.00	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/WRALC	MAR 99	JUL 99	4,503	123.00	YES	NO	
NET ASSEMBLY, SIDE NET										
FY96	KINEDYNE CORP LAWRENCE, KS	C/FP	AFMC/WRALC	NOV 96[1]	OCT 97	12,199	93.00			
FY97	KINEDYNE CORP LAWRENCE, KS	OPT/FP	AFMC/WRALC	FEB 97	FEB 98	4,810	95.00	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WRALC	JUN 98	APR 99	23,422	96.00	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/WRALC	JUN 99	SEP 99	12,971	105.00	YES	NO	

REMARKS:
1. FY96 AWARD SLIPPAGE DUE TO REQUEST FROM PROPSPECTIVE BIDDERS FOR CLARIFICATION ON TESTING PROCEDURES .

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: NET ASSEMBLY 108' X 88', TOP NET

ASSETS	
On Hand as of 31 Mar 96	137140
Due-in w/all Prior Years' Funds	12233
Due-in w/FY97 Funds	12802
TOTAL ASSETS:	162175
DISPOSAL(Planned & Projected thru FY99 FDP)	
FY97 Since as of date:	2843
FY98	2734
FY99:	2028
FY00:	507
FY01:	0
FY02:	0
TOTAL USAGE (___MONTHS)	8112
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	154063
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	165000
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	8992
Air National Guard Requirement	656
Air Force Reserve Requirement	494
TOTAL REQUIREMENT	175142
APPROVED ACQUISITION OBJECTIVE	175142
PROCUREMENT REQUIREMENT	
Total FY98 Requirement	175142
Less Net Assets	154063
Required FY98 Procurement	21079
Planned FY98 Procurement	6517
Total FY99 Requirement	175142
Less Net Assets	154063
Less FY98 Planned Procurement	6517
Required FY99 Procurement	14562
Planned FY99 Procurement	4503

REMARKS:

P-1 SHOPP LIST
ITEM NO. 98

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: NET ASSEMBLY, 108' X 88', SIDE NET

ASSETS	
On Hand as of 31 Mar 96	275394
Due-in w/all Prior Years' Funds	25411
Due-in w/FY97 Funds	4810
TOTAL ASSETS:	305615
DISPOSAL (Planned & Projected thru FY99 FDP)	
FY97 Since as of date:	3947
FY98	7378
FY99:	4118
FY00:	3089
FY01:	0
FY02:	0
TOTAL USAGE (___MONTHS)	18532
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	287083

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	330000
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	18288
Air National Guard Requirement	1312
Air Force Reserve Requirement	988
TOTAL REQUIREMENT	350588
APPROVED ACQUISITION OBJECTIVE	350588

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	350588
Less Net Assets	287083
Required FY98 Procurement	63505
Planned FY98 Procurement	23422
Total FY99 Requirement	350588
Less Net Assets	287083
Less FY98 Planned Procurement	23422
Required FY99 Procurement	40083
Planned FY99 Procurement	12971

REMARKS:

P-1 SHOPP LIST
ITEM NO. 98

108

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: **NET ASSEMBLY, 108" X 86" TOP NET** | | | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: **NET ASSEMBLY 108" X 88" SIDE NET** | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: **NET ASSEMBLY 108" X 88" SIDE NET** | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE BLADDERS, FUEL					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	$3.927	$1.909	$2.749	$3.022	$3.453	$5.385	$5.389	$5.467

1. The fabric collapsible, 50K fuel bladder serves as a supply/storage tank for fuel at forward operating and bare base locations. Fuel is then transferred from the bladder to an aircraft by the R-14 refueling module which is the interface between the bladder and an aircraft. The R-14 refueling system is the only modularized refueling system in the Air Force inventory which is capable of supporting the operational commands' (Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), and Pacific Air Forces (PACAF)) bare base refueling requirements as well as supplementing selected main operating bases. Without this bladder, the R-14 refueling module is not a functional assembly. Failure to procure this requirement will preclude the using commands from having aircraft refueling capability in both peacetime and combat situations at bare base locations.

2. The 50K fuel bladder is constructed of either buna nitril rubber or polyurethane materials which have a five year shelf life. The shelf life on current assets expired in 1994 requiring the inventory to be replaced. The dimensions of the bladders are 24 feet by 65 feet, rectangular, with fittings in each end for pumping fuel into or out of the tank.

3. Item Code: A

4. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			.012			-
FY98			-			-
FY99			-			-

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	99	112	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: BLADDERS, FUEL

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
50K FUEL BLADDER										
FY96	BELL AVON PICAYUNE, MS	OPT/FP [1]	AFMC/SA-ALC	OCT 95	MAY 96	350	11,220			
FY97	BELL AVON PICAYUNE, MS	OPT/FP [1]	AFMC/SA-ALC	OCT 96	MAY 97	159	12,018			
FY98	UNKNOWN	C/FFP	AFMC/SA-ALC	OCT 97	MAY 98	224	12,272	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 98	MAY 99	241	12,540	YES	NO	

D. REMARKS:
1. OPTION TO CONTRACT AWARDED JUN 93, ON P-1 LINE 103, MOBILITY EQUIPMENT.

UNCLASSIFIED
REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

DATE: FEBRUARY 1997
P-1 ITEM NOMENCLATURE: BLADDERS, FUEL
50K FUEL BLADDER

ASSETS

On Hand as of 31 Mar 96	676
Due-in w/all Prior Years' Funds	350
Due-in w/FY97 Funds	159
TOTAL ASSETS:	1185

DISPOSALS(Planned & Projected thru FY99 FDP)

FY97 since as of date:	74
FY98:	350
FY99:	212
FY00:	0
FY01:	0
TOTAL DISPOSALS (___MONTHS)	636

PROCUREMENT LEADTIME: 7 months

NET ASSETS: 549

ACTUAL TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE

Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	946
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	100
Air National Guard Requirement	1
Air Force Reserve Requirement	0
TOTAL REQUIREMENT	1047

APPROVED ACQUISITION OBJECTIVE 1047

PROCUREMENT REQUIREMENT

Total FY98 Requirement	1047
Less Net Assets	549
Required FY98 Procurement	498
Planned FY98 Procurement	224

PROCUREMENT REQUIREMENT

Total FY99 Requirement	1047
Less Net Assets	549
Less FY98 Planned Procurement	224
Required FY99 Procurement	274
Planned FY99 Procurement	241

REMARKS:

P-1 SHOPP LIST
ITEM NO. 99

| FY98/99 PB | | | | | P-1 ITEM NOMENCLATURE | 50K FUEL BLADDER | | | | | | | | | | | | | | | | | DATE: | FEBRUARY 1997 | | | | | | | | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE AERIAL BULK FUEL DELIVERY SYSTEM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	$2.061	$2.097	$4.288	$2.144	$0.914	$0.980	$1.018

1. The Aerial Bulk Fuel Delivery System (ABFDS) provides the only means to transport bulk fuel in the cargo compartment of military aircraft. It is critical to the success of contingencies where normal ways to deliver fuel (fuel trucks and pipeline) are not available or have been destroyed. The system consists of an air cargo pallet mounted fuel delivery pumping module. In use the module is positioned at the rear of C-130, C-141, or C-5 aircraft. It pumps fuel from fuel trucks into 3,000 gallon fuel bladders which are prepositioned in the aircraft forward of the module; the number of bladders is dependent on the type of aircraft. At the aircraft destination, the fuel can be either pumped onto waiting fuel trucks or be pumped directly from the aircraft to nearby storage tanks/storage bladders. The ABFDS can be used for jet fuel, diesel fuel, or gasoline.

2. The majority of the current ABFDSs were procured in the mid-1960s, are equipped with gasoline engines and have far surpassed their 20-year service life. These older engines generate dangerous exhaust manifold temperatures and are a significant safety hazard capable of causing catastrophic aircraft and aircrew losses. These older systems have also experienced operational and mechanical problems due to parts obsolescence and overall deterioration due to age. The new system will have a diesel engine which operates on multi-fuels and generates lower exhaust temperatures.

3. Item Code: A

3. ANG/AFR: None

	P-1 SHOPP LIST ITEM NO. 100	PAGE NO. 116	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE AERIAL BULK FUEL DELIVERY SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AERIAL BULK FUEL DELIVERY SYS										
FY78	AIR LOGISTICS INC., SAN ANTONIO, TX	C/FFP	AFMC/SA-ALC	AUG 78	MAR 79	3	99,320			
FY97	UNKNOWN	C/FFP [1]	AFMC/SA-ALC	APR 97	AUG 98	12	171,750 [2]	YES	NO	
FY98	UNKNOWN	OPT/FFP [1]	AFMC/SA-ALC	MAY 98	APR 99	12	174,750 [2]	YES	NO	
FY99	UNKNOWN	OPT/FFP [1]	AFMC/SA-ALC	NOV 99	OCT 99	24	178,667 [2]	YES	NO	

D. REMARKS

1. INDEFINITE QUANTITY CONTRACT WITH 5-YEAR ORDERING PERIOD
2. UNIT COSTS BASED ON CONTRACTOR ESTIMATE WITH INFLATION.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	100	117	

REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

DATE: FEBRUARY 1997
P-1 ITEM NOMENCLATURE: AERIAL BULK FUEL DELIVERY SYSTEM (ABFDS)

ASSETS	
On Hand as of 31 Mar 96	58
Due-in w/all Prior Years' Funds	0
Due-in w/FY97 Funds	12
TOTAL ASSETS:	70

DISPOSALS (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	12
FY98:	12
FY99:	24
FY00:	0
FY01:	0
TOTAL USAGE (____MONTHS)	48

PROCUREMENT LEADTIME: 11 months

NET ASSETS: 22

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	58
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	1
Air National Guard Requirement	0
Air Force Reserve Requirement	0
TOTAL REQUIREMENT	59

APPROVED ACQUISITION OBJECTIVE 59

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	59
Less Net Assets	22
Required FY98 Procurement	37
Planned FY98 Procurement	12
Total FY99 Requirement	59
Less Net Assets	22
Less FY98 Planned Procurement	12
Required FY99 Procurement	25
Planned FY99 Procurement	24

REMARKS:

P-1 SHOPP LIST
ITEM NO.100

FY98/99 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: AERIAL BULK DELIVERY SYSTEM	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96	96	96	CALENDAR YEAR 97										CALENDAR YEAR 98												CALENDAR YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AERIAL BULK FUEL DELIVERY SYSTEM																																								
FY97	AF	12	0	12							C											FA		FAA			2	2	2	2	2	2								
FY98	AF	12	0	12																				C										2	2	2	2	2	2	
FY99	AF	24	0	24																									C											24
TOTAL		48	0	48																							2	2	2	2	2	2					2	2	2	24
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA-CH D+
UNKNOWN	1		2	

PROCUREMENT LEAD TIME

	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
INITIAL (FY97)	0	7	11 (FA)	18
REORDER (FY98)	0	10	11	21

REMARKS:

P-1 SHOPPING LIST
ITEM NO. 100

FY98/99 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE: AERIAL BULK DELIVERY SYSTEM	DATE: FEBRUARY 1997

ITEM/MFG PROCUREMENT YEAR	SERV	PROC QTY	ACCPT PRIOR 1-Oct	BAL DUE 1-Oct	FISCAL YEAR 00 / CALENDAR YEAR 00														FISCAL YEAR 01 / CALENDAR YEAR 01												FISCAL YEAR 02 / CALENDAR YEAR 02									LATER
					99 OCT	99 NOV	99 DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AERIAL BULK FUEL DELIVERY SYSTEM																																							
FY97	AF	12	12	0																																				
FY98	AF	12	12	0																																				
FY99	AF	24	0	24	2	2	2	2	2	2	2	2	2	2	2	2																								
TOTAL		48	24	24	2	2	2		2	2	2	2	2	2	2	2	0	0	0	0																				0
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME AND LOCATION	PROD RATES MIN		MAX	REA- CH D+	PROCUREMENT LEAD TIME	ADMIN LEAD TIME PR 1 OCT	ADMIN LEAD TIME AFT 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT	REMARKS:
UNKNOWN	1		2		INITIAL					
					REORDER					

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE PHOTOGRAPHIC EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$6.010	$6.083	$6.063	$5.730	$6.122	$6.261	$6.015	$6.129

The Photographic Equipment program procures still photographic, motion photography and graphic imaging equipment and equipment systems. These equipment items support Air Force reconnaissance and intelligence programs, Air Force test ranges, Combat Camera Still Photographic Documentation Teams and Base Visual Information Service Centers by replacing older, antiquated equipment that has either reached or exceeded maximum useful life or is unable to provide the speed or quality of resolution that provides critical visual information necessary for rapid and accurate command decisions. Visual Information Service Centers support commanders at all levels including the National Command Authority and the Chairman, Joint Chiefs of Staff. Equipment included are processors, still and motion cameras (conventional and digital), film and digital processors, developing and finishing equipment and film/video projection systems. FY96-99 funding is described below.

1. **PHOTO PROJECTION EQUIPMENT (FSC 6730).** FY96-99 funding continues procurement of film and electronic projection systems. The program is designed to incorporate the use of electronic projection systems where appropriate. As the use of film based systems diminishes, electronic projection systems are needed to display electronic imagery. The transition to electronic imagery is the result of technology growth and the need to reduce/eliminate film/chemical based systems to protect the environment.

2. **PHOTO EQUIPMENT AND ACCESSORIES (FSC 6760).** FY97-99 funding will procure replacement specialized film-based photographic systems that cannot be replaced by electronic imagery. These new systems will replace aging, antiquated equipment. These newer systems comply with or exceed federal and state environmental regulations and are required because of their ability to provide full resolution capability that electronic systems do not yet meet.

3. **ELECTRONIC IMAGING CENTER EQUIPMENT CONVERSIONS.** In FY92 the Air Force implemented a service-wide program to integrate and install electronic and digital still and graphic imaging systems in all Air Force Base Visual Information Service Centers. The initiative recognized that technology was forcing conversion of film based photographic and graphic systems into digital camera systems, multi-media processing systems, digital photographic processing systems, digital graphic imaging systems, image database banks, image network hubs and image presentation systems. This initiative standardizes these systems for insured interoperability between systems and locations. Additionally, this initiative recognized that electronic imaging would provide commanders with responsive near real-time vital imagery from anywhere in the world. Seventy-seven Air Force bases had electronic imaging systems installed in FY93 and FY94. In FY98/99 electronic imaging systems facing obsolescence will begin to be replaced.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE PHOTOGRAPHIC EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. ANG/AFR

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			3.792			-
FY97			-			-
FY98			-			-
FY99			-			-

	P-1 SHOPP LIST ITEM NO. 101	PAGE NO. 122	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME PHOTOGRAPHIC EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION Multiple Vendors

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. Photo Projection Equipment (FSC 6730)	A			500			1,000			1,000			1,000
2. Photo Equipment and Accessories (FSC 6760)	A						3,500			3,500			3,000
3. Electronic Imaging Center Conversions	A			5,510			1,583			1,563			1,730
TOTAL				6,010			6,083			6,063			5,730

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE PRODUCTIVITY INVESTMENTS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$17.349	$9.970	$5.980	$8.956	$3.976	$0.000	$0.000	$0.000

1. This program funds the Air Force Productivity Enhancing Capital Investment (PECI) projects in the Productivity Investment Fund (PIF) and the Fast Payback Capital Investment (FASCAP) 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 (MAJCOMs) provide the offsets from projected savings to sustain future investments for these programs. Thus, these programs are funded by the MAJCOMs.

a. To qualify for the PIF program, projects must cost over $200,000 and amortize in less than four years. Funds are approved by Air Force based on a prioritization of projects and availability of funds. By AF policy, top priority is given to PIF projects with investments that amortize in the shortest period of time and have the highest rate of return on investment. To date, PIF projects have yielded life cycle savings of over $21 for every $1 invested.

b. To quality 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, FASCAP projects have yielded life cycle savings of over $9 for every $1 invested.

2. The FY96 program consisted of $15.721 million for PIF and $1.628 for FASCAP projects.

3. The FY97 program consisted of $2.977 million for PIF projects and $6.993 million for FASCAP projects; FY98 program consists of $5.980 million for FASCAP projects; and FY99 program consists of $8.956 million for FASCAP projects.

4. ANG/AFR: None

	P-1 SHOPP LIST ITEM NO. 102	PAGE NO. 124	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME PRODUCTIVITY INVESTMENTS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE CONTRACTORS

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Productivity Investment Fund (PIF)													
a. AN/TGC-27-28 Replacement (Air Combat Command)				10,638									
b. Wang Hardware Replacement (Air Forces Services Agency)				2,000			2,602						
c. Electronic Security Equipment (Pacifc Air Forces)				3,083									
d. High Frequency Consolidatiion (Pacifc Air Forces)							375						
Fast Payback Capital Investment (FASCAP)				1,628			6,993			5,980			8,956
TOTAL				17,349			9,970			5,980			8,956

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	102	125	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE MOBILITY EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$29.444	$21.239	$26.524	$28.766	$29.452	$30.115	$4.727	$4.813

1. This P-1 line supports Air Force Bare Base mobility equipment...better known as Harvest Falcon (HF) and Harvest Eagle (HE). Designed and sized to support two simultaneous Major Regional Contingencies (MRC), it provides theater warfighters billeting, industrial, and airfield capability to support a total of 68,200 combat troops, 822 aircraft, at 15 austere locations, building complete bases from ground up. Of the two systems, HF is the newest and has the greatest capability (housekeeping + air base infrastructure). It is an outgrowth of the FY90-94 Defense Guidance that tasked the Air Force to support United States Central Command (USCENTCOM) Rapid Deployment Forces and save on critical airlift resources through theater prepositioning. The outstanding reputation of the AF Bare Base program, established during the Gulf War, has continued in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These include Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, and now Desert Focus. Harvest Falcon remains a very top Priority with USCINCENT.

2. The unparalleled success of the AF Bare Base program and the unending demand for it to support MOOTW has taken its toll on equipment. As a result the majority of HF & HE requires comprehensive repair or replacement. Much equipment has been in use for over three years, well beyond design parameters.. This makes AF Bare Base mobility equipment reinvestment funding a most crucial issue.

3. Funding in FY98/99 continues to procure refueling system equipment required to cover HF War Reserve Material (WRM) deficits in fuel bladders and mobile hydrants. Replacements for water distribution packages and laundry units will be procured in FY 98/99. HF water distribution packages will also have the latest configurations to provide enhanced "curb service" to other Bare Base systems such as HE and air transportable hospitals. Latest configuration laundry units will be self-help field systems vs bulk systems that proved maintenance intensive for service technicians (no longer assigned mobility taskings) to run and maintain. Additional runway sub-systems and electrical sub-systems to be procured in FY98/99 cover WRM deficits and/or non-reparable items returned from MOOTW. Shelter/facilities procured in FY98/99 will continue to cover WRM deficits created through MOOTW deployments. Initial deployment kitchens will be all electric vs fuel-burning units that proved difficult to maintain during Desert Shield/Storm. The small shelter Environmental Control Unit (ECU) to be procured in FY99 replacing older generation air conditioners well past their useful lifespan. Also additional four thousand Square foot facilities will be procured.

4. ANG/AFR: None.

	P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 126	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (Costs in Thousands of Dollars)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/Other Base Maintenance and Support Equipment	B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K
			$	$		$	$		$	$		$	$
A. **Refueling Systems**													
(1) R-14 Mobile Hydrant	A	14	93	1,302	14	93	1,302						
(2) 10K Fuel Bladder	A	16	7.5	120				50	8	400	42	8	336
(3) 50K Fuel Bladder	A				82	12.1	993	25	15	375	21	15	315
(4) Fuel Filter Separator	A	30	10	300									
(5) Injector Pump	A	40	10.9	436									
(6) R-22 Mobile Hydrant	A							6	19	114			
B. **Refrigeration Equipment**													
(1) Refer Panel, 10K	A	14	6	84							15	6	90
(2) Refer Panel, 5K	A	138	6	828									
(3) Refer Box, 150 cu. ft.	A	52	6.8	354									
(4) Refer Box, 1200 cu. ft.	A	8	20	160									
(5) Refer Panel, 300 cu. Ft.	A										42	25	1,050
(6) Environmental Ctrl Unit	A							690	11.7	8,073	752	12.7	9,551
C. **Water Systems**													
(1) Latrines	A	23	22.4	516							30	26	780
(2) Water Loop Package	A	21	296	6,216	4	318.2	1,306	3	318.2	955	2	318.2	637
(3) Rev-Osmosis Wtr Pur Unit	A				12	79.7	957						
(4) 3K Onion Tank	A	82	2.4	197				59	2.4	142	53	2.4	128

	P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 127	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (Costs in Thousands of Dollars)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/Other Base Maintenance and Support Equipment	B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K
(5) Self-Help Laundry	A				55	23.4	1,287	68	23.4	1,594	34	23.9	813
(6) 20K Water Bladder	A							130	6.8	884	16	6.8	109
(7) 9-1 Kitchen Water	A										30	25	750
(8) Shower Unit	A										35	16.9	592
(9) Shave Unit	A										30	11.1	333
D. **Runway Sub-Systems**													
(1) Revetment Kits	A	47	33.2	1,561									
(2) Remote Area Light Sets	A				41	32.3	1,325						
(3) Conting Airfld Light Sets	A	3	460	1,380									
(4) Lightweight Flooring	A	196	16.6	3,254									
E. **Electrical Sub-Systems**													
(1) Secondary Dist. Center	A	128	18.8	2,407	92	19.4	1,785	102	19.4	1,979	64	21.3	1,364
(2) 750Kw Generator	A	22	187.3	4,121	21	188.7	3,963						
(3) 60 Wheel Kit	A				2	1.1	3						
(4) Kitchen Elect. 1100	A										6	30	180
F. **Shelters/Facilities**													
(1) ESC, NDI	A	3	80	240									
(2) ESC, Parachute 1	A	1	78	78									

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	103	128	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (Costs in Thousands of Dollars)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/Other Base Maintenance and Support Equipment	B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K
			$	$		$	$		$	$		$	$
(3) ESC, Common	A	8	57.8	463									
(4) ESC, Life Support	A	4	67.8	272									
(5) 4K Sq. Ft. Facility	A				30	131.1	3,933	30	131.1	3,933	30	131.1	3,933
(6)General Purpose Shelter	A	30	105.8	3,174									
(7) Temper Tent (Tan)	A	196	8.3	1,627									
(8) Kitchen Tentage, 550	A	9	37	354									
(9) Initial Deployment Kit.	A				10	438.5	4,385	14	395.4	5,536	6	395.4	2,373
(10) Light Set, Tent	A							250	.3	75	200	.3	60
(11) 1100 Kitchen Tentage	A										27	52	1,404
(12) Small Shelter ECU	A							100	16	1,600	203	16	3,248
G. **Miscellanous**													
(1) Ship/Storage Containers	A							120	7.2	864	100	7.2	720
TOTAL				29,444			21,239			26,524			28,766

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	103	129	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
R-14 Mobile Hydrant										
FY 1996	Entwhistle Corp, MA	Option	AFMC/SA-ALC	Mar 96	Mar 97	14	93			
FY 1997	Entwhistle Corp, MA	Option	AFMC/SA-ALC	Nov 96	Nov 97	14	93			
10K Fuel Bladder										
FY 1996	Bell Avon, MS	Option	AFMC/SA-ALC	Mar 96	Mar 97	16	7.5			
FY 1998	Unknown	C/FP	AFMC/SA-ALC	Nov 97	Jul 98	50	8	Yes	No	
FY 1999	Unknown	Option	AFMC/SA-ALC	Nov 98	Dec 98	42	8	Yes	No	
50K Fuel Bladder										
FY 1991	Bell Avon, MS	C/FP	AFMC/SA-ALC	Dec 92	Apr 94	252	8.2			
FY 1997	Bell Avon, MS	Option	AFMC/SA-ALC	Oct 96	Nov 96	82	12.1			
FY 1998	Bell Avon, MS	Option	AFMC/SA-ALC	Nov 97	Jun 98	25	15	Yes	No	
FY 1999	Unknown	C/FP	AFMC/SA-ALC	Nov 98	Nov 99	21	15	Yes	No	
Fuel Filter Seperator										
FY 1996	Isometrics Inc, NC	C/FP	AFMC/SA-ALC	Sep 96	Jul 97	30	10			
Injector Pump										
FY 1996	Hammond Tech Serv, TX	C/FP	AFMC/SA-ALC	Sep 96	Apr 97	40	10.9			
R-22 Mobile Hydrant										
FY 1984	Peabody Barnes, OH	C/FP	AFMC/WR-ALC	Jun 95	Dec 95	13	21.8			
FY 1998	Unknown	C/FP	AFMC/WR-ALC	Apr 98	Jan 99	6	18.7	Yes	No	

D. REMARKS:

P-1 SHOPP LIST ITEM NO. 103

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
Refer Panel 10K										
FY 1995	Keco Inc, KY	C/FP	AFMC/SA-ALC	Aug 95	Aug 96	26	6			
FY 1996	Unknown	C/FP	AFMC/SA-ALC	Mar 97	Mar 98	14	6	Yes	No	
FY 1999	Unknown	Option	AFMC/SA-ALC	Nov 98	Dec 98	15	6	Yes	No	
Refer Panel, 5K										
FY 1995	Keco Inc, KY	C/FP	AFMC/SA-ALC	Sep 95	Nov 96	40	5.4			
FY 1996	Unknown	C/FP	AFMC/SA-ALC	Mar 97	Nov 98	138	6	Yes	No	
Refer Box, 150 cu. ft.										
FY 1991	Army/W. H. Porter, MI	MIPR	AFMC/SA-ALC	Sep 91	May 92	102	5.5			
FY 1996	Unknown	MIPR	AFMC/SA-ALC	Apr 97	Oct 97	52	6.8	Yes	No	
Refer Box 1200 cu. ft.										
FY 1994	Army/W. H. Porter,MI	MIPR/OPT/FP	AFMC/SA-ALC	Sep 94	Oct 94	16	20			
FY 1996	Army/Unknown	MIPR/OPT/FP	AFMC/SA-ALC	Apr 97	Oct 97	8	20	Yes	No	
Refer Box, 300 cu. Ft.										
FY1999	Army/ Unknown/FP	MIPR/C/FP	AFMC/SA-ALC	Aug 99	Jun 00	42	25	Yes	No	
Environmental Control Unit										
FY 1990	Air Tech Inc., LA	C/FP	AFMC/SA-ALC	Mar 90	Apr 93	244	4.4			
FY 1998	Unknown	C/FP	AFMC/SA-ALC	Mar 98	Feb 99	690	11.7	Yes	No	
FY 1999	Unknown	C/FP	AFMC/SA-ALC	Mar 99	Feb 00	752	12.7	Yes	No	
Latrines										
FY 1994	Engineered Air, MO	Option	AFMC/WR-ALC	Jul 94	Dec 94	19	20.7			
FY 1996	Uknown	C/FP	AFMC/WR-ALC	Mar 97	Sep 98	23	22.4	Yes	No	
FY 1999	Unknown	OPT/C/FP	AFMC/WR-ALC	Aug 99	Jun 00	30	26	Yes	No	

D. REMARKS:

P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 131	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
Water Loop Package										
FY 1996	Engineered Air, MO	Option	AFMC/WR-ALC	Nov 95	May 96	21	296			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Dec 97	Jun 98	4	318.2	Yes	No	
FY1998	Unknown	OPT/FP	AFMC/WR-ALC	Nov 98	May 99	3	318. 2	Yes	No	
FY1999	Unknown	OPT/FP	AFMC/WR-ALC	Dec 99	Jun 00	2	318.2	Yes	No	
Reverse Osmosis Water Purif. Unit										
FY 1997	Army/ Hiland Eng.,Mi	MIPR	AFMC/WR-ALC	Nov 96	Aug 97	12	79.7			
3K Onion Tank										
FY 1996	American Fuel Cel., MS	C/FP	AFMC/SA-ALC	Aug 96	Jan 97	82	2.4			
FY 1998	American Fuel Cel., MS	Option	AFMC/SA-ALC	Nov 97	May 98	59	2.4	Yes	No	
FY 1999	Unknown	C/FP	AFMC/SA-ALC	Nov 98	Sep 99	53	2.4	Yes	No	
Self-Help Laundry										
FY 1990	Cemirt, GA	SS	AFMC/WR-ALC	Oct 90	Dec 90	7	27.7			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Jun 97	Jul 98	55	23.4	Yes	No	
FY 1998	Unknown	OPT/FP	AFMC/WR-ALC	Feb 98	Nov 98	68	23.4	Yes	No	
FY1999	Unknown	OPT/FP	AFMC/WR-ALC	Dec 98	Jan 99	34	23.9	Yes	No	
20K Water Bladder										
FY 1991	Calif. Inflation, CA	C/FP	AFMC/SA-ALC	Jul 92	Jan 94	334	6.8			
FY 1998	Unknown	C/FP	AFMC/SA-ALC	Apr 98	Apr 99	130	6.8	Yes	No	
FY 1999	Unknown	OPT/FP	AFMC/SA-ALC	Jan 99	Feb 00	16	6.8	Yes	No	

D. REMARKS:

P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 132	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
9-1 Kitchen Water										
FY 1999	Unknown	C/FP	AFMC/SA-ALC	Jan 99	Feb 00	30	25	Yes	No	
Shower Unit										
FY 1999	Unknown	C/FP	AFMC/WR-ALC	Jan 99	Nov 99	35	16.9	Yes	No	
Shave Unit										
FY 1999	Unknown	C/FP	AFMC/WR-ALC	Jan 99	Nov 99	30	11.1	Yes	No	
Revetment Kits										
FY 1996	Engineered Air, MO	C/FP	AFMC/WR-ALC	Nov 95	Jun 96	47	33.2			
Remote Area Light Sets										
FY 1991	Unicor, VA	C/FP	AFMC/SA-ALC	Sep 93	Oct 96	63	28.7			
FY 1997	Unicor, VA	SS/FP	AFMC/SA-ALC	Mar 97	Jun 97	41	32.3	Yes	No	
Contingency Airfield Lighting System										
FY 1996	Multi-Elec, IL	C/FP	AFMC/ASC	Apr 96	Jun 96	3	460			
Lightweight Flooring										
FY 1996	AAR Corp, MI	C/FP	AFMC/WR-ALC	Jun 96	Jun 97	196	16.6			
Secondary Distribution Center										
FY 1996	Cemirt, TX	OPT/FP	AFMC/SM-ALC	Mar 97	Aug 97	128	18.8			
FY 1997	Essex EE, IL	Option/FP	AFMC/SM-ALC	Apr 97	Sep 98	92	19.4	Yes	No	
FY 1998	Essex EE, IL	OPT/FP	AFMC/SM-ALC	Jul 98	Dec 98	102	19.4	Yes	No	
FY 1999	Unknown	C/FP	AFMC/SM-ALC	Dec 98	Jun 99	64	21.3	Yes	No	

D. REMARKS:

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs In Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
750 Kw Generator										
FY 1991	MC II Corp, Tx	C/FP	AFMC/SM-ALC	Sep 93	Sep 94	95	165			
FY 1996	Unknown	C/FP	AFMC/SM-ALC	Mar 97	Apr 98	22	187.3	Yes	No	
FY 1997	Unknown	Option/FP	AFMC/SM-ALC	Aug 97	Jun 98	21	188.7	Yes	No	
60 KW Wheel Kit										
FY 1993	Prototype, Inc., IL	C/FP	AFMC/SM-ALC	May 93	Aug 93	72	1.0			
FY 1997	Unknown	C/FP	AFMC/SM-ALC	Apr 97	Apr 98	2	1.1	Yes	No	
Kitchen Elect. 1100										
FY 1999	Unknown	C/FP	AFMC/WR-ALC	Feb 99	Apr 00	6	30	Yes	No	
ESC NDI										
FY 1996	Gichner Sys Inc, PA	C/FP	AFMC/WR-ALC	Nov 95	Feb 96	3	80			
ESC, Parachute 1										
FY 1996	Gichner Sys Inc, PA	C/FP	AFMC/WR-ALC	Nov 95	Jan 97	1	78			
ESC, Common										
FY 1996	Gichner Sys Inc, PA	C/FP	AFMC/WR-ALC	Nov 95	Nov 96	8	57.8			
ESC, Life Support										
FY 1996	Gichner Sys Inc, PA	C/FP	AFMC/WR-ALC	Nov 95	Aug 96	4	67.8			
4 K Sq Ft Facility										
FY 1994	Universal Fabric, PA	Option	AFMC/WR-ALC	Jan 95	Jan 96	8	110.28			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Jun 97	Feb 98	30	131.1	Yes	No	
FY 1998	Unknown	Option/FP	AFMC/WR-ALC	Oct 97	Sep 98	30	131	Yes	No	
FY 1999	Unknown	C/FP	AFMC/WR-ALC	Nov 98	Jan 99	30	131	Yes	No	

D. REMARKS:

P-1 SHOPP LIST ITEM NO. 103

PAGE NO. 134

Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs In Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
General Purpose Shelter										
FY 1996	AAR Corp, MI	Option/ FP	AFMC/WR-ALC	Nov 95	Jul 96	30	105.8			
Temper Tent (Tan)										
FY 1996	DLA/Outdoor Venture, KY	C/FP/MIPR	AFMC/WR-ALC	Feb 96	Apr 97	196	8.3			
Kitchen Tentage, 550										
FY 1996	DLA/Outdoor Venture, KY	C/FP/MIPR	AFMC/WR-ALC	Jun 96	Jul 97	9	37			
Initial Deployment Kitchen										
FY 1991	Army/MTC Inc, OH	C/FP/MIPR	AFMC/WR-ALC	Dec 92	Jun 95	1	750			
FY 1997	Army/Unknown	C/FP/MIPR	AFMC/WR-ALC	Mar 97	Apr 98	10	438.5	Yes	No	
FY 1998	Army/Unknown	Option/FP/ MIPR	AFMC/WR-ALC	Nov 97	Feb 99	14	395.4	Yes	No	
FY 1999	Army/Unknown	Option/FP/ MIPR	AFMC/WR-ALC	Nov 98	Jun 99	6	395.4	No	Yes	Nov 97
Light Set, Tent										
FY 1991	Unicor, VA.	SS/FFP	AFMC/WR-ALC	Feb 93	Dec 94	3,421	.3			
FY 1998	Unicor, VA	SS/FFP	AFMC/WR-ALC	Dec 97	Jul 98	250	.3	Yes	No	
FY 1999	Unicor, VA	SS/FFP	AFMC/WR-ALC	Dec 98	Jul 99	200	.3	Yes	No	
1100 Kitchen Tentage										
FY 1999	Unknown	C/FP	AFMC/WR-ALC	Dec 98	Jan 00	27	52	Yes	No	

D. REMARKS:

P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 135	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/Other Base Maintenance and Support Equipment

C. P-1 ITEM NOMENCLATURE: MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
Small Shelter ECU										
FY 1998	Unknown	C/FP	AFMC/WR-ALC	Jan 98	Oct 99	100	16	Yes	No	
FY 1999	Unknown	Option/FP	AFMC/WR-ALC	Dec 98	Feb 00	203	16	Yes	No	
Shipping/Storage Container										
FY 1995	DLA/ AAR Corp, MI	MIPR/FP	AFMC/WR-ALC	Jan 95	Jun 95	206	7.2			
FY 1998	DLA/Unknown	MIPR/FP	AFMC/WR-ALC	Nov 97	Feb 98	120	7.2	Yes	No	
FY 1999	DLA/Unknown	MIPR/FP	AFMC/WR-ALC	Nov 98	Feb 99	100	7.2	Yes	No	

D. REMARKS:

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$3.299	$1.946	$2.013	$2.245	$1.839	$3.607	$3.512	$3.566

1. This family of containers is airliftable, portable, stackable, and weatherproof. The containers come in different sizes and are made of fiberglass reinforced plywood. They can be stacked up to two units high when loaded. Load capacity varies up to 10,000 pounds, are moveable with a standard 10,000 pound forklift, and are certified for helicopter external lift. They are designed to ship large quantities of assets economically, safely and quickly, providing minimum time for loading, unloading, and set-up for use. The containers also provide physical security and protection from the elements as well as organization of contents for quick retrieval when required. They fit into aircraft to utilize the least amount of space with the most amount of equipment possible.

2. These containers are required for prepositioning of mobility assets and more complete/efficient use of limited air transport space. They are compatible with all modes of transport, whereas the cardboard and plywood boxes and the strapping of loose equipment to pallets are not. With older containers, the user manually handles equipment requiring more time and manpower. With the deployment/employment containers, fewer aircraft are required for transport and less manpower is required for packing, setting up and retrieval of assets.

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			1.664			.216
FY97			1.039			.161
FY98			1.044			.208
FY99			1.181			.226

	P-1 SHOPP LIST ITEM NO. 104	PAGE NO. 137	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME DEPLOYMENT/EMPLOYMENT CONTAINERS		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST
1. Container, 84x42X30 NSN 8145-01-118-9872	A	707	1,541	1,090	200	1,587	317	250	1,635	409	273	1,684	460
A. First Article		2	1,065	2									
2. Container, 84x42x60 NSN 8145-01-118-9873	A	419	1,943	814	350	2,001	700	351	2,061	723	375	2,123	796
A. First Article		2	6,700	14									
3. Container, 62x42x30 NSN 8145-01-118-9874	A	291	1,463	426	391	1,539	602						
A. First Article		2	40,375	81									
4. Container, 62x42x52 NSN 8145-01-118-9882	A	32	1,843	59	32	1,899	61				32	2,000	64
A. First Article		2	1,650	3									
5. Container, 84x42x52 NSN 8145-01-118-9883	A	2	4,468	9	2	4,566	9						

* UNIT COSTS ARE IN ACTUAL DOLLARS, E.G., ONE THOUSAND FIVE HUNDRED AND FORTY ONE DOLLARS.	P-1 SHOPP LIST ITEM NO. 104	PAGE NO. 138	Exhibit P-5 Weapon System Cost Analysis

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME DEPLOYMENT/EMPLOYMENT CONTAINERS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST
6. Container, 62x42x60 NSN 8145-01-118-9884	A	425	1,875	797	136	1,892	257	450	1,958	881	459	2,016	925
A. First Article		2	1,778	4									
Total				3,299			1,946			2,013			2,245

* UNIT COSTS ARE IN ACTUAL DOLLARS, E.G., ONE THOUSAND FIVE HUNDRED AND FORTY ONE DOLLARS.	P-1 SHOPP LIST ITEM NO. 104	PAGE NO. 139	Exhibit P-5 Weapon System Cost Analysis

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. CONTAINER, 84X42X30 NSN 8145-01-118-9872										
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	246	1,541			
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	SEP 96	FEB 97	461	1,541			
FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,065 [1]			
FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (1st YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	200	1,587	YES	NO	
FY98	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (2nd YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	250	1,635	YES	NO	
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (3rd YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	273	1,684	YES	NO	

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
2. CONTAINER, 84X42X60 NSN 8145-01-118-9873 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	419	1,943				
FY96 FIRST ARTICLE	PAINTER DESIGN & ENG SANTA FE SPR, CA	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	6,700 [1]				
FY97	PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP [2] (1ST YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	350	2,001	YES	NO		
FY98	PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP [2] (2ND YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	351	2,061	YES	NO		
FY99	PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP [2] (3RD YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	375	2,123	YES	NO		

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
3. CONTAINER, 62X42X30 NSN 8145-01-118-9874											
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	NOV 96	291	1,463				
FY96 FIRST ARTICLE	PLASTICS RESEARCH CORP SANTA FE SPR, CA	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	40,375 [3]				
FY97	PLASTICS RESEARDH CORP SANTA FE SPR, CA	OPT/FP [2] (1st YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	391	1,539	YES	NO		
4. CONTAINER, 62X42X52 NSN 8145-01-118-9882											
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	32	1,843				
FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,650 [1]				

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)				A. DATE FEBRUARY 1997						
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
(CONTAINER 62X42X52)										
FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (1ST YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	32	1,899	YES	NO	
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (2ND YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	32	2,000	YES	NO	
5. CONTAINER, 84X42X52 NSN 8145-01-118-9883										
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	DEC 95	MAY 96	2	4,468			
FY97	TANKINETICS HARRISON, AR	C/FP	AFMC/WR-ALC	DEC 96	APR 97	2	4,566			
6. CONTAINER, 62X42X60 NSN 8145-01-118-9884										
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	NOV 96	425	1,875			

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
(CONTAINER, 62X42X60) FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,778			
FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (1ST YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	136	1,892	YES	NO	
FY98	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (2ND YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	450	1,958	YES	NO	
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP [2] (3RD YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	459	2,016	YES	NO	

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS NSN: 8145-01-118-9872

ASSETS	
On Hand as of 31 Mar 96	4834
Due-in w/all Prior Years' Funds	719
Due-in w/FY97 Funds	200
TOTAL ASSETS:	5753

USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0

PROCUREMENT LEADTIME: _____ months

NET ASSETS:	5753

ACTUAL TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE

Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	2916
Air National Guard Requirement	2694
Air Force Reserve Requirement	666
TOTAL REQUIREMENT	6276

APPROVED ACQUISITION OBJECTIVE 6276

PROCUREMENT REQUIREMENT

Total FY98 Requirement	6276
Less Net Assets	5753
Required FY98 Procurement	523
Planned FY98 Procurement	250
Total FY99 Requirement	6276
Less Net Assets	5753
Less FY98 Planned Procurement	250
Required FY99 Procurement	273
Planned FY99 Procurement	273

REMARKS:

P-1 SHOPP LIST
ITEM NO. 104

REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS NSN: 8145-01-118-9873

ASSETS	
On Hand as of 31 Mar 96	4277
Due-in w/all Prior Years' Funds	421
Due-in w/FY97 Funds	350
TOTAL ASSETS:	5048

USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	5048

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	3211
Air National Guard Requirement	2268
Air Force Reserve Requirement	666
TOTAL REQUIREMENT	6145
APPROVED ACQUISITION OBJECTIVE	6145

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	6145
Less Net Assets	5048
Required FY98 Procurement	1097
Planned FY98 Procurement	351
Total FY99 Requirement	6145
Less Net Assets	5048
Less FY98 Planned Procurement	351
Required FY99 Procurement	746
Planned FY99 Procurement	375

REMARKS:

P-1 SHOPP LIST
ITEM NO. 104

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS NSN: 8145-01-118-9882

ASSETS	
On Hand as of 31 Mar 96	30
Due-in w/all Prior Years' Funds	34
Due-in w/FY97 Funds	32
TOTAL ASSETS:	96
USAGE (Planned & Projected thru FY99 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0
PROCUREMENT LEADTIME: _____ months	
NET ASSETS:	96
ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	
ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	37
Air National Guard Requirement	86
Air Force Reserve Requirement	10
TOTAL REQUIREMENT	133
APPROVED ACQUISITION OBJECTIVE	133
PROCUREMENT REQUIREMENT	
Total FY98 Requirement	133
Less Net Assets	96
Required FY98 Procurement	37
Planned FY98 Procurement	0
Total FY99 Requirement	133
Less Net Assets	96
Less FY98 Planned Procurement	0
Required FY99 Procurement	37
Planned FY99 Procurement	32

REMARKS:

P-1 SHOPP LIST
ITEM NO. 104

REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS NSN: 8145-01-118-9884

ASSETS	
On Hand as of 31 Mar 96	6700
Due-in w/all Prior Years' Funds	472
Due-in w/FY97 Funds	136
TOTAL ASSETS:	7308

USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:	0
FY98:	0
FY99:	0
FY00:	0
FY01:	0
TOTAL USAGE (___MONTHS)	0

PROCUREMENT LEADTIME: _____ months

NET ASSETS:	7308

ACTUAL TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE

Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	4640
Air National Guard Requirement	2896
Air Force Reserve Requirement	968
TOTAL REQUIREMENT	8504

APPROVED ACQUISITION OBJECTIVE 8504

PROCUREMENT REQUIREMENT

Total FY98 Requirement	8504
Less Net Assets	7308
Required FY98 Procurement	1196
Planned FY98 Procurement	450
Total FY99 Requirement	8504
Less Net Assets	7308
Less FY98 Planned Procurement	450
Required FY99 Procurement	746
Planned FY99 Procurement	459

REMARKS:

P-1 SHOPP LIST
ITEM NO. 104

FY98/99 BUDGET PRODUCTION SCHEDULE	ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS	DATE: FEBRUARY 1997

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC QTY	ACEP. PRIOR TO 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96			CALENDAR YEAR 97											CALENDAR YEAR 98												CALENDAR YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1. CONTAINER																																								
8145-01-118-9872, 84 X 42 X 30																																								
TANKINETICS																																								
FY96	AF	246	0	246			50	50	100	46																														0
FY96	AF	461	0	461					100	100	100	100	61																											0
TOTAL		707	0	707			50	50	200	146	100	100	61																											0
FIBER REINFORCED PLASTICS																																								0
FY96	AF	2	0	2						FA		2																												0
FY97	AF	200	0	200									C							100	100																			0
FY98	AF	250	0	250													C							150	100															0
FY99	AF	273	0	273																									C							116	157			0
TOTAL		725	0	725								2								100	100			150	100											116	157			0
2. CONTAINER																																								
8145-01-118-9873, 84 X 42 X 60																																								
TANKINETICS																																								
FY96	AF	419	0	419			38	62	100	100	119																													0
TOTAL		419	0	419			38	62	100	100	119																													0
PAINTER DESIGN & ENGINEERING																																								
FY96	AF	2	0	2						FA		2																												0
FY97	AF	350	0	350									C							100	147	103																		0
FY98	AF	351	0	351													C							150	201															0
FY99	AF	375	0	375																									C							116	122	137		0
TOTAL		1078	0	1078								2								100	147	103		150	201											116	122	137		0

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAX	REACHED D+	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
			400																																							
SEE ABOVE																																									

PROCUREMENT LEAD TIMES

	ADMIN LEAD TIME PRIOR 1 OCT	ADMIN LEAD TIME AFTER 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
INITIAL				
REORDER (PREVIOUS SOURCE)				

REMARKS:

SEE FOOTNOTE 2 ON P-5A.

P-1 Shopping List
Item No. 104

149

FY 98/99 BUDGET PRODUCTION SCHEDULE

ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS

DATE: FEBRUARY 1997

ITEM/MANUFACTURER/ YEAR PROCUREMENT	SERV	PROC QTY	ACEP. PRIOR TO 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96			CALENDAR YEAR 97											CALENDAR YEAR 98												CALENDAR YEAR 99											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
3. CONTAINER																																							
8145-01-118-9874, 62 X 42 X 30																																							
TANKINETICS																																							
FY96	AF	291	0	291		84	6	10	100	91																													0
																																							0
TOTAL		291	0	291		84	6	10	100	91																													0
PLASTICS RESEARCH CORP																																							
FY96	AF	2	0	2						FA		2																												0
FY97	AF	391	0	391									C							83	100	208																		0
				0																																			0
TOTAL		393	0	393								2								83	100	208																		0
4. CONTAINER																																							
8145-01-118-9882, 62 X 42 X 52																																							
TANKINETICS																																							
FY96	AF	32	0	32			32																																0
TOTAL	AF	32	0	32			32																																0
FIBER REINFORCED PLASTICS																																							
FY96	AF	2	0	2						FA		2																												0
FY97	AF	32	0	32									C							32																				0
FY99	AF	32	0	32																									C							32				0
																																							0
TOTAL		66	0	66								2								32																32				0

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES MIN SUST 1-8-5	MAX	REACHED D+
		400	
SEE ABOVE			

PROCUREMENT LEAD TIMES

	ADMIN LEAD TIME PRIOR 1 OCT	ADMIN LEAD TIME AFTER 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT
INITIAL				
REORDER (PREVIOUS SOURCE)				

REMARKS:

SEE FOOTNOTE 2 ON P-5A.

FY 98/99 BUDGET PRODUCTION SCHEDULE	ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS	DATE: FEBRUARY 1997

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC QTY	ACEP. PRIOR TO 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LATER
					96 ALENDER YEAR 97												CALENDER YEAR 98												CALENDER YEAR 99												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5. CONTAINER																																								
8145-01-118-9883, 84 X 42 X 52																																								
TANKINETICS																																								
FY96	AF	2	2	0																																				0
FY97	AF	2	0	2			C				2																													0
TOTAL		4	2	2							2																													0
6. CONTAINER																																								
8145-01-118-9884, 62 X 42 X 60																																								
TANKINETICS																																								
FY96	AF	425	0	425		52	51	83	131	108																														0
TOTAL	AF	425	0	425		52	51	83	131	108																														0
FIBER REINFORCED PLASTICS																																								
FY96	AF	2	0	2						FA		2																													0
FY97	AF	136	0	136									C							83	53																				0
FY98	AF	450	0	450													C							100	99	251															0
FY99	AF	459	0	459																									C							112	122	225			0
TOTAL		1047	0	1047								2								83	53			100	99	251										112	122	225			0

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES MIN SUST 1-8-5	MAX	REACHED D+	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		400	PROCUREMENT LEAD TIMES																																					
SEE ABOVE				ADMIN LEAD TIME			MANUFAC-	TOTAL																																		
				PRIOR 1 OCT		AFTER 1 OCT	TURING TIME	AFTER 1 OCT																																		
			INITIAL																																						
			REORDER (PREVIOUS SOURCE)																																						

REMARKS:
SEE FOOTNOTE 2 ON P-5A.

P-1 SHOPPING LIST
ITEM NO. 104

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE AIR CONDITIONERS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	$0.802	$9.627	$10.668	$4.038	3.601	3.681	3.736

1. The A/E32C-39 air conditioner, NSN 4120-00-483-2880, is an electric motor driven, vapor cycle, skid mounted air conditioner with a cooling capacity of 54,000 British Thermal Unit/HR (BTU/HR), five tons. It provides environmental control, both cooling and heating, for aircraft electronic maintenance shops and portable buildings. Additionally, a nuclear, biological, chemically-hardened version is used to support War Reserve Material (WRM) requirements for transportable field hospitals.

2. These air conditioners will replace assets that have exceeded their service life and that are no longer economical to repair or maintain. The old assets also contain hydrochlorodifluorocarbon (HCFC-22) which is a Class II ozone layer-depleting substance due to be phased out by the year 2005. The A/E32C-39 air conditioner, which will contain a non-ozone depleting refrigerant, is required for the government to be in compliance with the Montreal Protocol Treaty on Substances and the Clean Air Act requiring the elimination of HCFC-22 refrigerants. In addition to the compliance requirements stated previously, FY98/99 procurement of these air conditioners is required to provide support to field hospitals and prevent premature failure of electronic equipment during aircraft testing procedures.

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			-			-
FY98			1.759			.361
FY99			1.756			.361

	P-1 SHOPP LIST ITEM NO. 106	PAGE NO. 152	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME AIR CONDITIONERS	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Air Conditioner A/E32C-39	A				3	22,000	66	437	12,050	5,266	620	12,040	7,465
Air Conditioner A/E32C-39 Nuclear Biological Chemically Hardened	A							321	13,617	4,361	235	13,628	3,203
Contractor Incentive							200						
Production Tooling							236						
Testing							250						
Type I Training							50						
TOTAL							802			9,627			10,668

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	106	153	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE: FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY: OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE: AIR CONDITIONERS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AIR CONDITIONERS										
FY90	AIRTACS CORP RED LION, PA	OPT/FFP	AFMC/SA-ALC	JUN 90	MAR 91	380	2,500			
AIR CONDITIONER A/E32C-39										
FY97	UNKNOWN	C/FFP	AFMC/SA-ALC	MAY 97	JUL 98	3 [1]	22,000 [2]	YES	NO	
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	APR 98	SEP 98	437	12,050	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	NOV 98	AUG 99	620	12,040	YES	NO	
AIR CONDITONER A/E32C-39 NUCLEAR/BIOLOGICAL/CHEM HARDENED										
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	APR 98	SEP 98	321	13,617	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	NOV 98	AUG 99	235	13,628	YES	NO	

D. REMARKS:
1. ONE FIRST ARTICLE UNIT WILL BE DESTROYED IN CHEMICAL TESTING.
2. FY97 UNIT COST IS FOR FIRST ARTICLE UNITS BASED ON AN ENGINEERING ESTIMATE OF $22,000.

UNCLASSIFIED
REQUIREMENTS STUDY

DATE: FEBRUARY 1997

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE: AIR CONDITIONERS
Air Conditioner A/E32C-39 and A/E32C-39 Chemically Hardened

ASSETS		
On Hand as of 31 Mar 96		8845
Due-in w/all Prior Years' Funds		0
Due-in w/FY97 Funds	See Remarks	2
TOTAL ASSETS:		8847

DISPOSAL (Planned & Projected thru FY98 FDP)	
FY97 since as of date:	0
FY98:	0
FY99:	38
FY00:	882
FY01:	0
TOTAL DISPOSALS (____MONTHS)	920
PROCUREMENT LEADTIME: 11 months	
NET ASSETS:	7927

ACTUAL TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE	
FY96	
FY95	
FY94	
FY93	
FY92	

INVENTORY OBJECTIVE	
Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	14650
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	1374
Air National Guard Requirement	438
Air Force Reserve Requirement	89
TOTAL REQUIREMENT	16551
APPROVED ACQUISITION OBJECTIVE	16551

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	16551
Less Net Assets	7927
Required FY98 Procurement	8624
Planned FY98 Procurement	757

PROCUREMENT REQUIREMENT	
Total FY98 Requirement	16551
Less Net Assets	7927
Less FY98 Planned Procurement	757
Required FY99 Procurement	7867
Planned FY99 Procurement	855

REMARKS: One unit destroyed in testing

P-1 SHOPP LIST
ITEM NO. 106

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: AIR CONDITIONERS | | | | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | | | | | |

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | P-1 ITEM NOMENCLATURE: AIR CONDITIONERS | | | | | | | | | | | | | | | DATE: FEBRUARY 1997 | | | | | | | | | | | | | | |

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE FEBRUARY 1997				
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN $2,000,000 (BASE SUPPORT EQUIPMENT)				
	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$10.167	$4.958	$9.731	$14.630	$23.030	$19.466	$20.225	$19.907

1. This program provides a wide variety of base support items with worldwide application. Examples are: prefabricated shelters which provide industrial space at austere employment locations, water purification equipment, aircraft arresting systems, compressors which have various applications, refrigeration units, heaters, and trailer mounted steam cleaners.

2. All items have an annual procurement value of less than $2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

		FY98		FY99	
NOMENCLATURE	NSN	QTY	DOLLARS	QTY	DOLLARS
Remote Area Lighting Sys (RALS)	6230-00-386-0935	60	1.843	64	1.963
Converter Liquid Oxygen	3655-01-222-9494	60	.815	127	1.760
Mobile Aircraft Arresting Sys (MAAS)	1710-01-223-2235	4	1.590	4	1.625
BAK-14 A/C Arresting System	1710-01-421-0080	3	1.079	3	1.079
BAK-15 A/C Arresting System (62NI)	1710-01-418-5978	1	0.309	2	0.618
BAK-15 A/C Arresting System (150ft)	1710-01-372-8156	2	0.610	3	0.827
Servicing Platform	4940-01-089-0129			8	0.881
Tactical Maintenance Shelter, S530, 60HZ	5410-01-072-2517EJ	9	1.969	8	1.789
Tactical Maintenance Shelter, S530, 400HZ	5410-01-057-9384			5	1.435
Conveyor Highline Dock	3910-00-405-3453CT	47	0.960	40	0.840
Space Heater, UH-68	4520-00-683-8595	186	0.358	294	0.579
Items Less Than $100 thousand			0.198		1.234
TOTAL			9.731		14.630

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	
	107	158	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE ITEMS LESS THEN $2,000,000 (BASE SUPPORT EQUIPMENT)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

3. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.080			-
FY97			.592			.100
FY98			1.900			.529
FY99			5.000			2.500

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$.991	$1.060	$1.998	$2.091	$3.117	$3.162	$2.998	$3.012

The Technical Surveillance Countermeasures Equipment Program is a continuing program for the acquisition of Technical Surveillance Countermeasures (TSCM), Technical Investigative Equipment (TIE) and Investigative Support Equipment in support of the Air Force Office of Special Investigations (AFOSI). AFOSI-trained technical agent teams located on Air Force installations worldwide conduct specialized technical surveys to detect clandestine intelligence gathering devices in sensitive Department of Defense (DOD) facilities. These devices may be targeted against facilities for purposes of counterintelligence or competitive intelligence collections. These same agents also conduct numerous technical support operations annually in support of criminal, fraud, and counterintelligence investigations.

Some equipment items used to support these missions utilize antiquated technology and desperately need to be replaced. TSCM equipment must continually be updated to keep abreast of the technological advances incorporated in the design of current intelligence gathering devices. In addition, the use of technologically advanced equipment saves man-years of labor in extremely complex criminal and fraud investigations. As AFOSI's manpower pool decreases in size to meet DOD force structure levels, AFOSI's dependence on this advanced equipment will increase. Some equipment has also reached a phase in its life cycle when maintenance and repair costs have become excessive, and in some cases parts for those repairs are no longer available. The Air Force TSCM Program is in danger of becoming ineffective with the continued use of old equipment. Sensitive Air Force facilities will become highly vulnerable to technical penetration without new/upgraded equipment.

This program also includes Investigative Support Equipment that supports the AFOSI specialized investigative services (USAF Polygraph Program, AF 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. AFOSI polygraph examiners conduct over 6,000 polygraph examinations annually in support of criminal/fraud/counterintelligence investigations and counterespionage operations. Failure to maintain AFOSI's polygraph equipment will result in the loss of credibility of USAF polygraph exams and result in non-certification of USAF polygraph examiners. Advances in computer technology and the amount of sensitive data maintained in AF computer systems necessitates the procurement of state of the art equipment to aid in computer intrusion investigations and the analysis of computer media evidence.

Current AFOSI projects are described below:

1. **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 is constantly reviewed to ensure that the most comprehensive

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

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. FY97-99 funding continues to buy these systems.

2. **SPECIALIZED LAW ENFORCEMENT SURVEILLANCE EQUIPMENT.** This specialized equipment is uniquely designed for and utilized during lawfully authorized monitoring of activities and conversations. This visual monitoring must often occur 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 accomplished remotely and specialized equipment to clandestinely transmit the images and audio must be used. Advances in telephone systems require that continuing improvements and upgrades to AFOSI's telephone monitoring equipment be done to allow lawfully authorized intercepts. Additionally, the capability to track the movements of suspected individuals and contraband, without revealing law enforcement's presence and utilizing the latest advances in navigation and position systems, must be procured as existing technology in this area is rapidly becoming obsolete. Without maintaining pace with advancements in these areas, AFOSI's ability to detect and solve crimes with lawfully collected evidence from surveillances will be greatly diminished. FY96-99 funding continues procurement of additional surveillance equipment.

3. **DIGITAL IMAGING/STORAGE SYSTEMS.** These systems encompass both visual image (picture) and printed image (document) digitizing systems. The visual image systems complement the electronic still-photographic equipment now being purchased for use throughout the USAF. Environmental concerns are forcing AFOSI and the DOD into abandoning current wet-chemical type photo labs. These systems, retrofittable into 35mm camera systems currently in the AFOSI inventory, store images in solid-state circuitry instead of on film. Equipment is required to process the stored images and produce a viewable image on other media (film, paper, etc.), as well as to digitize existing photographs, slides, negatives, and images from video tape. This equipment will also enable the enhancement of the images, if necessary, to provide identification of subjects. These systems will extend the useful lifespan of camera systems maintained at AFOSI field units worldwide. FY98 funding will purchase new digital technology equipment.

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **COMPUTER CRIME AND INTRUSION INVESTIGATION SYSTEMS.** This system of equipment specifically supports the growing investigative case load resulting from increasing use of computers to implement crime and the explosion of incidences of attempted intrusions into USAF and other DOD computer systems. This system will require continuing updates and enhancements to maintain pace with the criminal element's use of computers. FY98 and 99 funds will purchase new investigative equipment to improve the edge against computer crimes.

5. **ANG/AFR**: None.

	P-1 SHOPP LIST ITEM NO. 109	PAGE NO. 162	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. TSCM Survey Systems				(330)			(160)			(800)			(960)
a. Portable TSCM Receivers	A				1	160	160	5	160	800	6	160	960
b. Support Unit Kits	A	33	10	330									
2. Specialized Law Enforcement Surveillance Equipment				(661)			(900)			(143)			(116)
a. Digital Audio Recorders	A	13	19	247	13	19	247	1	19	19	2	19	38
b. Video Switcher	A				9	11.5	104	8	11.5	92	2	11.5	23
c. Microwave Transmitters	A	34	4.6	159	65	4.6	302						
d. Spread Spectrum Transmitters	A	13	16.3	212	13	16.3	212						
e. 8mm Video Equipment	A				16	2	32	14	2	29	26	2	52
f. Night Vision Devices	A	20	2.2	43									
g. Pager Interception Eq	A				1	3	3	1	3	3	1	3	3
3. Digital Imaging/Storage Equipment	A							VAR	N/A	40			

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	109	163	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A.

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
4. Computer Crime/ Intrusion Investigation System										(1,015)			(1,015)
a. Forensic Lab Eq	A							3	60	180	4	60	240
b. Agent Equipment	A							13	64.4	835	12	64.4	775
TOTAL				991			1,060			1,998			2,091

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
	109	164	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. TSCM SURVEY SYSTEMS										
A. PORTABLE TSCM RECEIVERS										
FY97	MATRIX ENGR, INC BALTIMORE, MD	SS/FFP	AFMC/ASC	MAR 97	JUN 97	1	160	YES	NO	
FY98	MATRIX ENGR, INC	OPT/FP	AFMC/ASC	NOV 97	JAN 98	5	160	YES	NO	
FY99	MATRIX ENGR, INC	OPT/FP	AFMC/ASC	NOV 98	JAN 99	6	160	YES	NO	
B. SUPPORT UNIT KITS										
FY96	MATRIX ENGR, INC	SS/FFP	AFMC/ASC	AUG 96	NOV 96	33	10			
2. SPECIALIZED LAW ENFORCE. SURVEILLANCE EQUIPMENT										
A. DIGITAL AUDIO RECORDERS										
FY96	ADAPTIVE DIGITAL SYSTEMS IRVINE, CA	SS/FFP	AFMC/ASC	AUG 96	NOV 96	13	19			
FY97	ADAPTIVE DIGITAL SYSTEMS	OPT/FP	AFMC/ASC	NOV 96	JAN 97	13	19			
FY98	ADAPTIVE DIGITAL SYSTEMS	OPT/FP	AFMC/ASC	NOV 97	JAN 98	1	19	YES	NO	

D. REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	109	165	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99	ADAPTIVE DIGITAL SYSTEMS	C/FFP (Option)	AFMC/ASC	NOV 98	JAN 99	2	19	YES	NO	
B. VIDEO SWITCHER										
FY97	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	MAY 97	9	11.5	YES	NO	
FY98	UNKNOWN	OPT/FP	AFMC/ASC	NOV 97	JAN 98	8	11.5	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/ASC	NOV 98	JAN 99	2	11.5	YES	NO	
C. MICROWAVE TRANSMITTERS										
FY96	GEN MICROWAVE SERVICES, INC., OCEANSIDE, CA	C/FP	AFMC/ASC	AUG 96	DEC 96	34	4.6			
FY97	GEN MICROWAVE SERVICES, INC.,	OPT/FP	AFMC/ASC	AUG 97	JAN 98	65	4.6	YES	NO	
D. SPREAD SPECTRUM TRANSMITTERS										
FY96	WESTINGHOUSE / AID, INC. FORT LAUDERDALE FL	SS/FFP	AFMC/ASC	AUG 96	DEC 96	13	16.3			

D. REMARKS			
	P-1 SHOPP LIST ITEM NO. 109	PAGE NO. 166	Exhibit P-5a Procurement History and Planning

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97	WESTINGHOUSE / AID, INC	OPT/FFP	AFMC/ASC	AUG 97	JAN 98	13	16.3	YES	NO	
E. 8MM VIDEO EQUIPMENT										
FY97	SONY, INC. TRENTON, NJ	SS/FFP	AFMC/ASC	NOV 96	JAN 97	16	2			
FY98	UNKNOWN	C/FP	AFMC/ASC	NOV 97	JAN 98	14	2	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/ASC	NOV 98	JAN 99	26	2	YES	NO	
F. NIGHT VISION DEVICES										
FY96	ITT CORP. ROANOKE, VA	SS/FFP	AFMC/ASC	JUL 96	OCT 96	20	2.2			
G. PAGER INTERCEPTION EQ										
FY97	FBI/TGA TECHNOLOGIES ATLANTA, GA	MIPR/OPT	AFMC/ASC	NOV 96	JAN 97	1	3			
FY98	FBI/TGA TECHNOLOGIES	MIPR/OPT	AFMC/ASC	NOV 97	JAN 98	1	3	YES	NO	
FY99	FBI/TGA TECHNOLOGIES	MIPR/OPT	AFMC/ASC	NOV 98	JAN 99	1	3	YES	NO	

D. REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
	109	167	

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
3. DIGITAL IMAG/STORAGE EQ											
FY98	EASTMAN KODAK ROCHESTER, NY	SS/FFP	AFMC/ASC	NOV 97	JAN 98	VAR	N/A	NO	YES	APR 97	
4. COMPUTER CRIME/INTRUSION INVESTIGATION SYSTEM											
A. FORENSIC LAB EQUIPMENT											
FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	JAN 98	3	60	NO	YES	APR 97	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	4	60	NO	YES	APR 98	
B. AGENT EQUIPMENT											
FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	JAN 98	13	64.4	NO	YES	APR 97	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	12	64.4	NO	YES	APR 98	

D. REMARKS			
	P-1 SHOPP LIST ITEM NO. 109	PAGE NO. 168	Exhibit P-5a Procurement History and Planning

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: INDUSTRIAL PREPAREDNESS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$1.115	$1.350	$1.243	$1.194	$1.205	$1.220	$1.239	$1.255

1. The Air Force industrial activities combine the resources of several appropriations to create a comprehensive program. The goal is to ensure that the defense industry is capable of supplying reliable and affordable systems to operational commanders during peacetime and national emergencies. Major elements in the program include management of government-owned industrial plants, the Defense Production Act Program, and support for industrial base (IB) activities. IB activities characterize the critical sectors and industries within the industrial base, and provide information on industrial capability issues for consideration during key budget allocation, weapons acquisition, and logistics support decision processes. Funds in the Other Procurement/Air Force Appropriation support IB activities through procurement of equipment for collection analysis surrounding problems, constraints, and endangered capabilities in the industrial base for communications/electronics and space systems. The collection data in turn supports affordable acquisition and sustainability requirements for these systems.

2. ANG/AFR: None

	P-1 SHOPP LIST ITEM NO. 115	PAGE NO. 169	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE MODIFICATIONS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2001	FY 2003
QUANTITY								
COST (In Mil)	$0.98	$0.195	$0.193	$0.175	$0.185	$0.184	$0.295	$0.304

1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems or equipment. This budget line encompasses both new and on-going modification efforts for base maintenance and support equipment.

2. The amount budgeted in FY98 and FY99 is for "Miscellaneous Low Cost Modifications" to satisfy historically unforeseen modification requirements such as the low cost modification to the Two Hour Breathing Apparatus allowing access to outside air versus containerized air.

	P-1 SHOPP LIST ITEM NO. 116	PAGE NO. 170	

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: FIRST DESTINATION TRANSPORTATION				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	$11.854	$13.521	$15.351	$14.888	$15.165	$15.304	$15.382	$15.506

First Destination Transportation (FDT) is the movement of property from free-on-board (F.O.B.) point of acquisition to the point at which the material is first received for use, storage, or distribution, in the military supply system. When it is to the advantage of the government, transportation costs are included in the contractual price of investment items (F.O.B. destination) and financed as part of their unit cost. This P-1 line program provides for CONUS inland movement of material newly procured by Air Force major commands (MAJCOMs) from contract plants to depot facilities, CONUS Air Force bases, or aerial/water ports for onward movement. FY98/99 funding will provide for shipment of items procured F.O.B. origin from Air Force Procurement Appropriations (Aircraft, Missile, Ammunition and Other Procurement). The requirement is based on material buy programs in the procurement appropriations and is computed using a factor relationship of FDT costs to the value of procurement programs.

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SPARES & REPAIR PARTS

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1998-1999

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SPARE AND REPAIR PARTS

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118	Initial Spares	1

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/SPARES AND REPAIR PARTS				P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	57.651	37.016	55.771	51.018	41.041	35.365	25.140	21.942

1. Initial Spares are reparable components, assemblies, and subassemblies, as well as consumables required as initial stockage (including readiness spares package requirements) in support of newly fielded vehicles, other base maintenance and support equipment, and electronics and telecommunications equipment. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data on similar equipment, employment/deployment concepts, production schedules and other related information. Initial spares are procured using obligation authority in the Air Force Supply Management Business Area (AFSMBA) of the Air Force Working Capital Fund (AFWCF) with the exception of intelligence and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through the AFWCF procurement funds will reimburse the AFSMBA 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.

2. Replenishment Spares are reparable components, assemblies, and subassemblies required for follow-on support of end items. The Air Force Working Capital Fund procures non-stock listed spares in support of classified programs which are not managed through the Standard Base Supply System.

INITIAL SPARE AND REPAIR PARTS SUMMARY EXHIBIT (P-1S)	DATE FEBRUARY 1997

APPROPRIATION/SERVICE: OTHER PROCUREMENT/AIR FORCE	MILLIONS OF DOLLARS			
	FY96	FY97	FY98	FY99
INITIAL SPARES	56.963	36.073	55.641	50.932
REPLENISHMENT SPARES	0.688	0.943	0.130	0.086
TOTAL	57.651	37.016	55.771	51.018

	P-1 SHOPP LIST ITEM NO. 118	PAGE NO. 2	Exhibit P-1S, Spare and Repair Parts Summary

INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/SPARES AND REPAIR PARTS		P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS		
	FY 96	FY 97	FY 98	FY 99	TOTAL COST
P-1 Line No. 23, 31 VEHICULAR EQUIPMENT	.188	.132	.128	.087	.535
P-1 Line No. 29 60K AIRCRAFT LOADER	0	0	1.011	2.612	3.623
P-1 Line No. 36 COMSEC EQUIPMENT	.687	.732	.753	.738	2.910
P-1 Line No. 38 INTEL DATA HANDLING	0	0	.457	.398	.855
P-1 Line No. 40 INTEL COMMUNICATIONS EQUIPMENT	.655	0	1.599	.064	2.318
P-1 Line No. 42 NATIONAL AIRSPACE SYSTEM	0	0	.029	.162	.191
P-1 Line No. 43 THEATER AIR CONTROL SYSTEM IMPRV	10.798	6.659	6.277	4.061	27.795
P-1 Line No. 44 WEATHER OBSERVATION/FORECAST	3.631	.828	1.101	.253	5.813
P-1 Line No. 45 STRATEGIC COMMAND AND CONTROL	.328	0	1.183	.923	2.434
P-1 Line No. 46 CHEYENNE MOUNTAIN COMPLEX	5.671	2.701	3.244	.952	12.568

INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)					DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/SPARES AND REPAIR PARTS		P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS			
	FY 96	FY 97	FY 98	FY 99	TOTAL COST
P-1 Line No. 47 TAC SIGINT SUPPORT	.506	.463	.590	.574	2.133
P-1 Line No. 51 MOBILITY COMMAND & CONTROL	1.775	.581	1.276	.227	3.859
P-1 Line No. 52 AIR FORCE PHYSICAL SECURITY	2.118	2.808	2.030	1.047	8.003
P-1 Line No. 53 COMBAT TRAINING RANGES	3.319	1.456	3.010	1.874	9.659
P-1 Line No. 59 THEATER BATTLE MANAGEMENT C2 SYS	5.773	0	2.270	4.976	13.019
P-1 Line No. 64 DEFENSE SUPPORT PROGRAM	.521	2.936	.186	.090	3.733
P-1 Line No. 65 NAVSTAR GPS	.039	.052	.023	.015	.129
P-1 Line No. 68 AIR FORCE SATELLITE CONTROL NETWORK	0	0	5.785	6.575	12.360
P-1 Line No. 69 EASTERN/WESTERN RANGE I&M	.186	1.710	4.757	7.980	14.633
P-1 Line No. 70 MILSATCOM SPACE	5.624	5.200	8.241	7.372	26.437

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-18a, Spare and Repair Parts Requirements
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INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)					DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/SPARES AND REPAIR PARTS		P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS			
	FY 96	FY 97	FY 98	FY 99	TOTAL COST
P-1 Line No. 71 SPACE MODS	4.426	5.589	3.040	1.952	15.007
P-1 Line No. 72 TACTICAL C-E EQUIPMENT	3.188	2.270	3.844	2.518	11.820
P-1 Line No. 75 TV EQUIPMENT (AFRTV)	.054	.091	.258	.248	.651
P-1 Line No. ITEMS LESS THAN $2M, BASE SUPPORT	4.795	1.587	2.170	1.852	10.404
P-1 Line No. 80 COMM-ELECTRONIC MODS	.803	.458	1.329	2.765	5.355
P-1 Line No. XX AIR BASE OPERABILITY	.222	.568	1.137	.655	2.582
P-1 Line No. None JOINT TAC COMM PROGRAM	2.119	0	0	0	2.119
P-1 Line No. None WEAPONS STORAGE AND SECURITY	.225	.195	.043	.048	.511
TOTAL	57.651	37.016	55.771	51.018	201.456

	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-18a, Spare and Repair Parts Requirements
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