

DEPARTMENT OF THE AIR FORCE

COMMITTEE STAFF PROCUREMENT BACKUP BOOK FY 1997 BUDGET ESTIMATES MARCH 1996



OTHER PROCUREMENT, AIR FORCE

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

UNCLASSIFIED

**DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT BUDGET ESTIMATES
FOR FISCAL YEAR 1997**

Table of Contents

	<u>Page No.</u>
Table of Contents	1
Glossary	2
Appropriation Language	8
Program Exhibit P-1	9

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

UNCLASSIFIED

UNCLASSIFIED

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
FCA - Fund City Authority
ID/IQ - Indefinite Delivery/Indefinite Quantity
MIPR - Military Interdepartmental Purchase Request
OA - Obligational 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
FP - Fixed Price

UNCLASSIFIED

FFP - Firm Fixed Price
FPAF - Fixed Price Award Fee
OPT - Option
WP - Work Project

Contracted By

ACC - Air Combat Command, Langley AFB, VA
AEDC - Arnold Engineering Development Center, Arnold AFB, TN
AFCESA - Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC - Air Force Flight Test Center, Edwards AFB, CA
AIA - Air Force Intelligence Agency, Kelly AFB, TX
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
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
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK
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

Bases/Organizations

11 SptW - 11th Support Wing
ACC - Air Combat Command

UNCLASSIFIED

UNCLASSIFIED

AETC - Air Education & Training Command
AFC4A - Air Force Command, Control, Communications & Computer Agency
AFCAO - Air Force Computer Acquisition Office
AFCESA - Air Force Civil Engineer Support Agency
AFCSC - Air Force Cryptologic Service Center
AFESC - Air Force Engineering Service Center
AFIT - Air Force Institute of Technology
AFMC - Air Force Materiel Command
AFMPC - Air Force Military Personnel Center
AFNEWS - Air Force Information & News Service Center
AFOSI - Air Force Office of Special Investigation
AFSPC - Air Force Space Command
AFR - Air Force Reserve
AIA - Air Intelligence Agency
AMC - Air Mobility Command
ANG - Air National Guard
AU - Air University
AWS - Air Weather Service
CIA - Central Intelligence Agency
DOE - Department of Energy
ESC - Electronics Systems Center
ESMC - Eastern Space & Missile Center
DLA - Defense Logistics Agency
ER - Eastern Range
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

UNCLASSIFIED

UNCLASSIFIED

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

Definitions

ABW - Air Base Wing
A/C - Aircraft
ADPE - Automated Data Processing Equipment
ADR - Airfield Damage Repair
AFSCN - Air Force Satellite Control Network
ALCM - Air Launched Cruise Missile
BLDA - Base Level Data Automation
BPAC - Budget Program Activity Code
CAP - Civil Air Patrol
CD - Canada
CHG - Charge
CID - Cubic Inch Displacement
CINC - Commander in Chief
CNG - Compressed Natural Gas
CO - Company
COBs - Collocated Operating Bases
COMSEC - Communications Security
CONUS - Continental United States
COTS - Commercial-off-the-Shelf Equipment
CRT - Cathode Ray Tube
CUCV - Commercial Utility Cargo Vehicle
DED - Diesel Engine Driven
DLT - Data Link Terminal
DOD - Department of Defense
DODIC - Department of Defense Identification Code

UNCLASSIFIED

UNCLASSIFIED

DMIF - Depot Maintenance Industrial Fund
ECM - Electronic Countermeasure
ECP - Engineering Change Proposal
EQUIP - Equipment
FAA - First Article Acceptance
FAAT - First Article Acceptance Testing
FMS - Foreign Military Sales
GED - Gasoline Engine Driven
GFE - Government Furnished Equipment
GPS - Global Positioning System
GMC - General Motors Corp
GVW - Gross Vehicle Weight
HF - High Frequency
HMMWV - High Mobility Multi-Purpose Wheeled Vehicle
IB/OB - Inbound/Outbound
IDL - Improved Data Link
I/O - Inventory Objective
IUS - Inertial Upper Stage
IOE - Initial Outfitting Equipment
IR - Infra-Red
LAP - Load, Assemble, Pack
LMPF - Logistics Materiel Processing Facility
MAJCOM - Major Command
MEP - Mobile Electric Power
METCAL - Metrology & Calibration
MCE - Modular Control Equipment
MCP - Military Construction Program
MHE - Materiel Handling Equipment
MM - Millimeter
MMHS - Mechanized Materiel Handling Systems
MOD - Ministry of Defense
NAS - National Airspace System
NSN - National Stock Number
NVG - Night Vision Goggles

UNCLASSIFIED

UNCLASSIFIED

OPAF - Other Procurement Air Force
OSD - Office of the Secretary of Defense
PMEL - Precision Measurement Equipment Laboratory
PPI - Plan Position Indicator
PT - Pneumatic Tire
SAS - Storage Aids Systems
SCS - Special Contingency Stockpile
SIGINT - Signal Intelligence
SPEC - Specification
ST - Solid Tire
STC - Satellite Test Center
T&E - Test and Evaluation
T&H - Test and Handling
TLR - Trailer
TPM - Tons per Minute
TRAC - Tractor
TRI-TAC - Joint Tactical Comm Program
UHF - Ultra High Frequency
UPS - Uninterruptible Power Supply
USNS - United States Naval Ship
VHF - Very High Frequency
VW - Volkswagon
WP - White Phosphorus
WRM - War Reserve Materiel

UNCLASSIFIED

UNCLASSIFIED

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 \$287,000 per vehicle; the purchase of not to exceed 506 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; \$5,998,813,000 to remain available for obligation until September 30, 1999.

UNCLASSIFIED

UNCLASSIFIED
 DEPARTMENT OF THE AIR FORCE
 FY 1997 PROCUREMENT PROGRAM

SUMMARY
 (\$ IN MILLIONS)

07 MAR 1996

APPROPRIATION: OTHER PROCUREMENT, AIR FORCE

ACTIVITY -----	FY 1995 -----	FY 1996 -----	FY 1997 -----
02. VEHICULAR EQUIPMENT	130.8	139.1	129.8
03. ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT	745.3	727.7	710.4
04. OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	5,575.5	5,341.7	5,121.6
05. SPARE AND REPAIR PARTS		59.5	37.1
TOTAL	----- 6,451.6	----- 6,267.9	----- 5,998.8

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C	
			FY 1997 UNIT COST	QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY		FY 1997 COST
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT										
PASSENGER CARRYING VEHICLES										
1	SEDAN, 4 DR 4X2	A	13,811	243	2.7	186	1.8	154	2.1	U
2	STATION WAGON, 4X2	A	16,649	114	1.7	69	1.1	57	.9	U
3	BUS, 28 PASSENGER	A		30	1.6					U
4	BUS - 32-44 PASSENGER	A		27	1.5					U
5	BUSES	A	55,989			44	2.4	91	5.1	U
6	AMBULANCE, BUS	A		1	.1					U
7	AMBULANCES	A	73,000					4	.3	U
8	MODULAR AMBULANCE	A		146	7.5					U
9	14-23 PASSENGER BUS	A		6	.2					U
10	LAW ENFORCEMENT VEHICLE	A	17,638	17	.3	85	1.4	199	3.5	U
11	ARMORED SEDAN	A	287,000			1	.3	1	.3	U
CARGO + UTILITY VEHICLES										
12	TRUCK, CARGO-UTILITY, 3/4T, 4X4	A	21,725			136	2.8	317	6.9	U
13	TRUCK, CARGO-UTILITY, 1/2T, 4X2	A	24,871					257	6.4	U
14	TRUCK, PICKUP, 1/2T, 4X2	A	15,171	167	2.2	236	2.5	572	8.7	U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS						S E C
			FY 1997 UNIT COST	FY 1995 QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	
15	TRUCK, PICKUP, COMPACT	A	17,580	493	5.9	433	4.8	556	9.8	U
16	TRUCK MULTI-STOP 1 TON 4X2	A	22,761	436	9.5	184	3.7	419	9.5	U
17	TRUCK CARRYALL	A	20,613					145	3.0	U
18	TRUCK, CARGO, 2 1/2T, 6X6, M-35	A		200	10.7	50	2.7			U
19	MEDIUM TACTICAL VEHICLE	A				56	5.9			U
20	TRUCK TRACTOR, OVER 5T	A	71,394			57	3.8	38	2.7	U
21	CAP VEHICLES	A			.8		.8		.8	U
22	ITEMS LESS THAN \$2,000,000	A			13.1		9.2		10.2	U
SPECIAL PURPOSE VEHICLES										
23	TRUCK TANK FUEL R-11	A		154	22.3	137	18.2			U
24	HMMWV, ARMORED	A	194,631			50	7.1	38	7.4	U
25	TRACTOR, TOW, FLIGHTLINE	A	28,888			152	4.5	108	3.1	U
26	ITEMS LESS THAN \$2,000,000	A			6.7		7.1		4.8	U
FIRE FIGHTING EQUIPMENT										
27	HEAVY RESCUE VEHICLE	A		14	2.9	15	3.2			U
28	TRUCK PUMPER P-24	A		14	2.5					U
29	TRUCK PUMPER P-22	A		26	4.1					U

• ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS						S E C
			FY 1997 UNIT COST	-----FY 1995----- QUANTITY COST	-----FY 1996----- QUANTITY COST	-----FY 1997----- QUANTITY COST				
30	ITEMS LESS THAN \$2,000,000 MATERIALS HANDLING EQUIPMENT	A				1.3				U
31	60K A/G LOADER	A	1,089,081	15	29.5	35	42.3	37	40.3	U
32	ITEMS LESS THAN \$2,000,000 BASE MAINTENANCE SUPPORT	A			2.9		1.7		2.1	U
33	MODIFICATIONS	A			.2		1.3		1.8	U
34	ITEMS LESS THAN \$2,000,000 CANCELLED ACCOUNT ADJUSTM	A			1.5		9.4			U
35	CANCELLED ACCOUNT ADJUSTMENTS	A			.6					U
TOTAL VEHICULAR EQUIPMENT					130.8		139.1		129.8	
BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT										

COMM SECURITY EQUIPMENT(COMSEC)										
36	COMSEC EQUIPMENT	A			16.5		35.1		27.4	U
37	MODIFICATIONS (COMSEC)	A			.3		.5		.5	U
INTELLIGENCE PROGRAMS										
38	INTELLIGENCE DATA HANDLING SYS	A			23.9		12.7		14.0	U
39	INTELLIGENCE TRAINING EQUIPMENT	A			.2		2.3		2.0	U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S E C
			FY 1997 UNIT COST	FY 1995 QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	
40	INTELLIGENCE COMM EQUIP	A			11.6		5.0	11.2	U
41	ITEMS LESS THAN \$2,000,000	A			.2		1.0		U
ELECTRONICS PROGRAMS									
42	THEATER AIR CONTROL SYS IMPROVEMENT	A			67.8		25.2	21.7	U
43	WEATHER OBSERV/FORCAST	A			25.7		7.1	13.9	U
44	STRATEGIC COMMAND AND CONTROL	A			7.5		57.2	23.4	U
45	CHEYENNE MOUNTAIN COMPLEX	A			14.9		8.6	3.1	U
46	TAC SIGINT SUPPORT	A					5.8	5.8	U
47	DRUG INTERDICTION PROGRAM	A			3.2				U
48	DARP	A			21.3				U
SPECIAL COMM-ELECTRONICS PROJECTS									
49	AUTOMATIC DATA PROCESSING EQUIP	A			42.3		31.9	17.8	U
50	WMCCS/GLOBAL COMMAND & CONTROL SYS	A			18.4		5.1	10.2	U
51	MOBILITY COMMAND AND CONTROL	A			8.1		.9	4.6	U
52	AIR FORCE PHYSICAL SECURITY SYSTEM	A			24.3		15.1	14.3	U
53	COMBAT TRAINING RANGES	A			14.1		2.1	11.4	U
54	C3 COUNTERMEASURES	A			5.4		7.5	9.1	U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS		S E C
			FY 1997 UNIT COST	-----FY 1995----- QUANTITY COST	-----FY 1996----- QUANTITY COST	-----FY 1997----- QUANTITY COST	
55	BASE LEVEL DATA AUTO PROGRAM	A		31.4	26.7	22.4	U
56	THEATER BATTLE MGT C2 SYS	A		31.4	51.5	48.0	U
AIR FORCE COMMUNICATIONS							
57	INFORMATION TRANSMISSION SYSTEMS	A		1.2	18.3		U
58	BASE INFORMATION INFRASTRUCTURE	A		43.4	58.9	125.7	U
59	USCENTCOM	A		2.8	3.3	2.3	U
60	AUTOMATED TELECOMMUNICATIONS PRG	A		26.4	17.9	19.2	U
61	WIDEBAND SYSTEMS UPGRADE	A		2.2			U
62	SATELLITE TERMINALS	A		4.2			U
DISA PROGRAMS							
63	DEFENSE SUPPORT PROGRAM SPACE	A		22.7	35.9		U
64	SPACE BASED IR SENSOR PROG SPACE	A				25.9	U
65	NAVSTAR GPS SPACE	A		3.7	1.0	3.3	U
66	DEFENSE METEOROLOGICAL SAT PROG SPAC	A		14.5	14.0	10.5	U
67	NUDET DETECTION SYS (NDS) SPACE	A			5.6	2.1	U
68	AF SATELLITE CONTROL NETWORK SPACE	A		25.6	25.3	16.1	U
69	EASTERN/WESTERN RANGE I&M SPACE	A		112.8	111.7	102.4	U

• ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS						S E C	
			FY 1997 UNIT COST	FY 1995 QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST		
70	MILSATCOM SPACE	A			3.3			46.3		52.2	U
71	SPACE MODS SPACE	A			29.4			32.1		23.4	U
ORGANIZATION AND BASE											
72	TACTICAL C-E EQUIPMENT	A			31.9			24.2		24.1	U
73	COMBAT SEARCH & RESCUE (CSAR) RADIO	B								2.9	U
74	RADIO EQUIPMENT	A			20.0			8.4		9.2	U
75	TV EQUIPMENT (AFRTV)	A			2.6			2.5		2.4	U
76	CCTV/AUDIOVISUAL EQUIPMENT	A			2.7			5.7		4.0	U
77	BASE COMM INFRASTRUCTURE	A			.9						U
78	CAP COM & ELECT	A			.3						U
79	ITEMS LESS THAN \$2,000,000	A			9.1			5.6		9.7	U
MODIFICATIONS											
80	COMM ELECT MODS	A			17.1			9.7		14.2	U
TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT					745.3			727.7		710.4	
BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT											
TEST EQUIPMENT											
81	BASE/ALC CALIBRATION PACKAGE	A			9.9			10.0		14.0	U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C	
			(DOLLARS) FY 1997 UNIT COST	-----FY 1995----- QUANTITY	COST	-----FY 1996----- QUANTITY	COST	-----FY 1997----- QUANTITY		COST
82	PRIMARY STANDARDS LABORATORY PACKAGE	A			1.6		1.6		1.6	U
83	ITEMS LESS THAN \$2,000,000	A			11.6		11.6		12.2	U
	PERSONAL SAFETY AND RESCUE EQUIP									
84	NIGHT VISION GOGGLES	A					1.0		3.6	U
85	BREATHING APPARATUS TWO HOUR	A			4.3		3.1		2.0	U
86	UNIVERSAL WATER ACTIVATED REL SYS	B					7.4		1.0	U
87	CHEMICAL/BIOLOGICAL DEF PROG	B			7.0					U
88	ITEMS LESS THAN \$2,000,000	A			4.4		4.7		5.8	U
	DEPOT PLANT + MATERIALS HANDLING EQ									
89	MECHANIZED MATERIAL HANDLING EQUIP	A					6.4		8.9	U
90	BASE MECHANIZATION EQUIPMENT	A			12.8					U
91	AIR TERMINAL MECHANIZATION EQUIP	A			5.2					U
92	ITEMS LESS THAN \$2,000,000	A			4.3		4.0		5.7	U
	ELECTRICAL EQUIPMENT									
93	GENERATORS-MOBILE ELECTRIC	A			4.3		.6		.6	U
94	FLOODLIGHTS SET TYPE NF2D	A					*			U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1997 UNIT COST	MILLIONS OF DOLLARS						S E C
				-----FY 1995----- QUANTITY	COST	-----FY 1996----- QUANTITY	COST	-----FY 1997----- QUANTITY	COST	
95	ITEMS LESS THAN \$2,000,000	A			4.8		1.1		3.4	U
	BASE SUPPORT EQUIPMENT									
96	BASE PROCURED EQUIPMENT	A			15.1		4.0			U
97	NATURAL GAS UTILIZATION EQUIPMENT	A			2.5					U
98	MEDICAL/DENTAL EQUIPMENT	A			13.8		12.4		15.3	U
99	ENVIRONMENTAL PROJECTS	A			23.7					U
100	AIR BASE OPERABILITY	B			4.7		4.2		4.9	U
101	PALLET AIR CARGO	A	890	4000	3.2	4000	3.7	4000	3.6	U
102	NET ASSEMBLY, 108"X88"	A					1.9		1.9	U
103	BLADDERS FUEL	A					3.9		1.9	U
104	AERIAL BULK FUEL DELIVERY SYSTEM	A							2.1	U
105	PHOTOGRAPHIC EQUIPMENT	A			6.6		6.0		6.1	U
106	PRODUCTIVITY ENHANCEMENT	A			6.1					U
107	PRODUCTIVITY INVESTMENTS	A			8.2		17.3			U
108	MOBILITY EQUIPMENT	A			12.8		29.4		21.3	U
109	SPARES AND REPAIR PARTS	A			29.3					U
110	DEPLOYMENT/EMPLOYMENT CONTAINERS	A					3.3		1.9	U

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS						S E C
			FY 1997 UNIT COST	-----FY 1995----- QUANTITY	-----FY 1995----- COST	-----FY 1996----- QUANTITY	-----FY 1996----- COST	-----FY 1997----- QUANTITY	-----FY 1997----- COST	
111	SPATIAL DISORIENTATION DEMONSTRATOR	A							1.9	U
112	AIR CONDITIONERS	A							.8	U
113	ITEMS LESS THAN \$2,000,000	A			17.3			9.1	5.0	U
SPECIAL SUPPORT PROJECTS										
114	INTELLIGENCE PRODUCTION ACTIVITY	A			52.6			68.6	65.0	U
115	TECH SURV COUNTERMEASURES EQ	A			1.9			1.0	1.1	U
116	DARP	A			64.8			71.4	77.1	U
117	SELECTED ACTIVITIES	A			5065.6			4887.8	4661.6	U
118	SPECIAL UPDATE PROGRAM	A			162.2			152.8	176.5	U
119	INDUSTRIAL PREPAREDNESS	A			1.0			1.1	1.4	U
120	MODIFICATIONS	A			.8			.1	.2	U
121	FIRST DESTINATION TRANSPORTATION	A			13.3			12.4	13.5	U
TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					5,575.5			5,341.7	5,121.6	
BUDGET ACTIVITY 05: SPARE AND REPAIR PARTS										

SPARES AND REPAIR PARTS

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1997 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: 07 MAR 1996

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS						S E C
			FY 1997 UNIT COST	FY 1995 QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	
122	SPARES AND REPAIR PARTS	A				59.5			37.1	U
	TOTAL SPARE AND REPAIR PARTS					59.5			37.1	
	TOTAL OTHER PROCUREMENT, AIR FORCE			6,451.6		6,267.9			5,998.8	

* ITEMS UNDER \$50,000

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

20

UNCLASSIFIED

VEHICULAR EQUIPMENT

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1997

Table of Contents

VEHICULAR EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
1	Sedan, 4 Dr 4X2	1
2	Station Wagon, 4X2	6
5	Buses	9
7	Ambulances	14
10	Law Enforcement Vehicle	17
11	Armored Sedan	21
12	Truck, Cargo-Utility, 3/4T, 4X4	23
13	Truck, Cargo-Utility, 1/2T, 4X2	26
14	Truck, Pickup, 1/2T, 4X2	30
15	Truck, Pickup, Compact	34
16	Truck Multi-Stop 1T, 4X2	38
17	Truck Carryall	41
20	Truck Tractor, Over 5T	46
21	Cap Vehicles	50
22	Items Less Than \$2,000,000 (Cargo & Utility)	51
24	HMMWV, Armored	53
25	Tractor, Tow, Flightline	56
26	Items Less Than \$2,000,000 (Special Purpose)	59
31	60K A/C Loader	61
32	Items Less Than \$2,000,000 (MHE)	65
33	Modifications	67

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE SEDAN, 4 DR 4X2					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		243	186	154	113	154	190	68
COST (In Mil)		\$2.710	\$1.810	\$2.127	\$1.353	\$1.907	\$2.401	\$.973

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 FY97 procurement requirement is 1,688 against an inventory objective of 2,703.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	61	681,614	18	201,132
FY96	60	566,160	5	47,180
FY97	28	327,768	0	0

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

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
--	--	--	--	--	--	--	--	--	--	--	-------------------------------------	--	--

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

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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				241	11146	2686	114	9684	1104	80
MIDSIZE US (BPAC 1013)	A							2	14395	29			
COMPACT JAPAN (BPAC 1014)	A				2	11812	24	4	11393	46	4	12200	49
COMPACT OSI OVERSEAS (BPAC 101F)	A							4	12000	48	10	15909	159
COMPACT US BI-FUEL CNG (BPAC 101H)	A							62	9403	583	60	16807	1008
TOTAL					243		2710	186		1810	154		2127

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
FY95	GSA (GMC) QUEBEC, CA	OPTION	AFMC/WR-ALC	JAN 95	JUN 95	5	17,793			
FY95	GSA (GMC) WILMINGTON, DE	OPTION	AFMC/WR-ALC	FEB 95	MAY 95	235	11,033			
FY95	ACC (CHRYSLER)	FCA/ACC	AFMC/WR-ALC			1	4,341			
FY96	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 96	JUL 96	114	9,684*	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	80	11,393	YES	NO	
MIDSIZE US (BPAC 1013)										
FY96	GSA (CHEVROLET) WARREN, MI	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	2	14,395			

D. REMARKS
 * BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
 ** FIRST TIME BUY OF BI-FUEL CNG SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

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

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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)										
95	PACAF (TOYOTA) JAPAN	FCA/JPN	AFMC/WR-ALC	JUL 95	OCT 95	2	11,812			
FY96	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	JUL 96	OCT 96	4	11,393*	YES	NO	
FY97	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	JUL 97	OCT 97	4	12,200	YES	NO	
COMPACT OSI OVERSEAS (BPAC 101F)										
FY94	OSI (VAUXHALL) ENGLAND	FCA/UK	AFMC/WR-ALC	MAY 94	Sep 94	4	14,966			
FY96	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JUL 96	NOV 96	1	12,000	YES	NO	
FY96	OSI (UNKNOWN)	FCA/IT	AFMC/WR-ALC	JUL 96	NOV 96	3	12,000	YES	NO	
97	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JUL 97	NOV 97	10	15,909	YES	NO	

D. REMARKS			
* BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.			
** FIRST TIME BUY OF BI-FUEL CNG SEDANS.			
NOTE: FCA = FUND CITE AUTHORIZATION.			
	P-1 SHOPP LIST ITEM NO. 1	PAGE NO. 4	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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) 8** FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 96	JUL 96	62	9,403	YES	NO	
	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUL 97	60	16,807	YES	NO	

D. REMARKS

- * BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
- ** FIRST TIME BUY OF BI-FUEL CNG SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

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

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE STATION WAGON, 4X2					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		114	69	57	66	122	139	40
COST (In Mil)		\$1.730	\$1.053	\$.949	\$1.046	\$1.966	\$2.289	\$.673

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 FY97 procurement requirement is 766 against an inventory objective of 1,053.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	18	270,288
FY96	9	136,332	0	0
FY97	22	350,504	0	0

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

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		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				111	15067	1672	64	15140	969	45	15507	698
COMPACT 4X2 JAPAN (BPAC 1112)	A				3	19084	57	5	16755	84			
COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)	A										12	20924	251
TOTALS					114		1730	69		1053	57		949

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

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
FY95	GSA (FORD) HAPEVILLE, GA	OPTION	AFMC/WR-ALC	MAR 95	JUN 95	111	15,067			
FY96	GSA (GMC) LANSING, MI	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	64	15,140			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	45	15,507	YES	NO	
COMPACT 4x2 JAPAN (BPAC 1112)										
FY95	PACAF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	JUL 95	DEC 95	3	19,084			
FY96	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	JUL 96	DEC 96	5	16,755*	YES	NO	
COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)										
FY97**	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 97	OCT 97	12	20,924	YES	NO	

D. REMARKS
 * BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE REQUIRED TO COVER THE PRICE INCREASE.
 ** FIRST BUY OF BI-FUEL CNG STATION WAGON.

NOTE: FCA = FUND CITE AUTHORIZATION.

	P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 8	Exhibit P-5a Procurement History and Planning
--	---------------------------------	---------------	---

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE BUSES				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY	0	0	44	91	70	246	417	124
COST (In Mil)	0	0	\$2.398	\$5.095	\$3.949	\$14.392	\$24.905	\$7.635

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 FY97 procurement requirement is 1,362 against an inventory objective of 2,222.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	3	174,585	4	222,932
FY97	17	966,536	0	0

	P-1 SHOPP LIST ITEM NO. 5	PAGE NO. 9	
--	---------------------------------	---------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/VEHICULAR EQUIPMENT			BUSES					MULTIPLE - SEE P-5A.					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
16 PASSENGER (BPAC 1242)	A										2	51131	102
16 PASSENGER (BPAC 1243)	A						7	38325	268		7	38899	272
23 PASSENGER (BPAC 1245)	A						1	41525	42				
28 PASSENGER TRANSIT (BPAC 124A)	A						15	55733	836		32	56160	1797
28 PASSENGER TRANSIT CNG (BPAC 124B)	A										2	65550	131
44 PASSENGER INTRACITY (BPAC 124K)	A						2	73000	146		1	73887	74
44 PASSENGER TRANSIT (BPAC 124L)	A						19	58195	1106		47	57847	2719
TOTALS							44		2398		91		5095

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

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	-------------------------------

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 CNG (BPAC 1242)										
FY97*	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	MAR 97	JUL 97	2	51,131	YES	NO	
17 PASSENGER (BPAC 1243)										
FY95 **	GSA (BLUEBIRD) FT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 95	JUL 95	4	37,863			
FY96	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	APR 96	AUG 96	7	38,325	YES	NO	
FY97	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	7	38,899	YES	NO	
23 PASSENGER (BPAC 1245)										
FY95 **	GSA (BLUEBIRD) FT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 95	JUL 95	2	40,095			
FY96	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	APR 96	AUG 96	1	41,525	YES	NO	

D. REMARKS
 * FIRST TIME BUY OF CNG 16 AND 26 PASSENGER BUSES.
 ** FUNDED IN P-1 LINE 9, 14-23 PASSENGER BUS.
 # FUNDED IN P-1 LINE 4, 32-44 PASSENGER BUS.
 @ FY97 MAY BE UNDERBUDGETED BECAUSE OF OMB/OSD INFLATION ADJUSTMENT.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

PASSENGER TRANSIT (BPAC 124A)										
FY95 **	GSA (BLUEBIRD) FT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 95	JUL 95	30	53,867			
FY96	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	APR 96	AUG 96	15	55,733	YES	NO	
FY97	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	32	56,160	YES	NO	
28 PASSENGER TRANSIT CNG (BPAC 124B)										
FY97*	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	2	65,550	YES	NO	
44 PASSENGER INTRACITY (BPAC 124K)										
95#	GSA (BLUE BIRD)	ID/Q	AFMC/WR-ALC	MAR 95	JUL 95	1	71,552			
FY96	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	APR 96	AUG 96	2	73,000	YES	NO	
FY97	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	1	73,887	YES	NO	

D. REMARKS

- * FIRST TIME BUY OF CNG 16 AND 28 PASSENGER BUSES.
- ** FUNDED IN P-1 LINE 9, 14-23 PASSENGER BUS.
- # FUNDED IN P-1 LINE 4, 32-44 PASSENGER BUS.
- ⊙ FY97 MAY BE UNDERBUDGETED BECAUSE OF OMB/OSD INFLATION ADJUSTMENT.

	P-1 SHOPP LIST ITEM NO. 5	PAGE NO. 12	Exhibit P-5a Procurement History and Planning
--	--	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 TRANSIT (BPAC 124L)										
5#	GSA (BLUEBIRD) FT VALLEY, GA	ID/Q	AFMC/WR-ALC	FEB 95	JUL 95	26	55,852			
FY96	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	APR 96	AUG 96	19	58,195	YES	NO	
FY97	GSA (UNKNOWN)	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	47	57,847 [Ⓞ]	YES	NO	

D. REMARKS		
* FIRST TIME BUY OF CNG 16 AND 26 PASSENGER BUSES.		
** FUNDED IN P-1 LINE 9, 14-23 PASSENGER BUS.		
# FUNDED IN P-1 LINE 4, 32-44 PASSENGER BUS.		
Ⓞ FY97 MAY BE UNDERBUDGETED BECAUSE OF OMB/OSD INFLATION ADJUSTMENT.		
P-1 SHOPP LIST ITEM NO. 5	PAGE NO. 13	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE AMBULANCES					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	4	5	10	18	8
COST (In Mil)		0	0	\$.292	\$.378	\$.625	\$1.111	\$.518

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 FY97 procurement requirement is 583 against an inventory objective of 1302.

2. This P-1 Line was created effective with the FY96 Budget Estimate Submission to consolidate ambulances into one line. P-1 Lines 6 and 8 are consolidated herein.

3. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO. 7	PAGE NO. 14	
--	--	------------------------	--

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/VEHICULAR EQUIPMENT			AMBULANCES				WHEELED COACH, WINTER PARK, FL						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

MODULAR AMBULANCE 4X4 US (BPAC 1354)	A											1	54000	54
BUS AMBULANCE (BPAC 1359)	A											3	79483	238
TOTALS												4		292

	P-1 SHOPP LIST ITEM NO. 7	PAGE NO. 15	Exhibit P-5 Weapon System Cost Analysis
--	---------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

MODULAR 4X4 US (BPAC 1354)										
95 *	GSA (WHEELED COACH) WINTER PARK, FL	ID/Q	AFMC/WR-ALC	DEC 94	APR 95	88	52,341			
FY97	GSA (WHEELED COACH) WINTER PARK, FL	ID/Q	AFMC/WR-ALC	DEC 96	APR 97	1	54,000	YES	NO	
BUS AMBULANCE (BPAC 1359)										
FY95 ●	GSA (WHEELED COACH) WINTER PARK, FL	ID/Q	AFMC/WR-ALC	FEB 95	MAY 95	1	78,957			
FY97	GSA (WHEELED COACH) WINTER PARK, FL	ID/Q	AFMC/WR-ALC	FEB 97	MAY 97	3	79,483	YES	NO	

D. REMARKS
 * FUNDED IN P-1 LINE 8, MODULAR AMBULANCE.
 ● FUNDED IN P-1 LINE 8, AMBULANCE BUS

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE LAW ENFORCEMENT VEHICLE					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		17	85	199	82	52	71	18
COST (In Mil)		\$.271	\$1.404	\$3.510	\$1.351	\$.867	\$1.212	\$.314

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 FY97 procurement requirement is 709 against an inventory objective of 808.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	0	0	7	106,134
FY97	0	0	15	247,680

	P-1 SHOPP LIST ITEM NO. 10	PAGE NO. 17	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/VEHICULAR EQUIPMENT				LAW ENFORCEMENT VEHICLE				MULTIPLE - SEE P5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US (BPAC 1601)	A				15	15563	233	80	16400	1312	142	16512	2345
JAPAN (BPAC 1602)	A				2	18750	38				1	19074	19
ITALY (BPAC 1605)	A							3	19500	59			
TURKEY (BPAC 1606)	A							2	16630	33			
US BI-FUEL CNG (BPAC 1607)	A										56	20464	1146
TOTALS					17		271	85		1404	199		3510

	P-1 SHOPP LIST ITEM NO. 10	PAGE NO. 18	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
FY95	GSA (FORD) ATLANTA, GA	MIPR	AFMC/WR-ALC	DEC 94	MAR 95	15	15,563			
FY96	GSA (CHEVROLET) WARREN, MI	MIPR	AFMC/WR-ALC	FEB 96	MAY 96	80	16,400			
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	FEB 97	MAY 97	142	16,512	YES	NO	
JAPAN (BPAC 1602)										
FY95	5AF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	SEP 95	APR 96	2	18,750			
FY97	5AF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	APR 97	NOV 97	1	19,074	YES	NO	
ITALY (BPAC 1605)										
FY96*	16AF (UNKNOWN)	FCA/IT	AFMC/WR-ALC	AUG 96	DEC 96	3	19,500	YES	NO	
TURKEY (BPAC 1606)										
FY96*	16AF (UNKNOWN)	FCA/TURKEY	AFMC/WR-ALC	SEP 96	JAN 97	2	16,630	YES	NO	

D. REMARKS
 * FY96 WILL BE THE FIRST TIME THE LAW ENFORCEMENT VEHICLE IS BOUGHT IN ITALY AND TURKEY.
 # FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

UNCLASSIFIED

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 BI-FUEL CNG (BPAC 1607) 97#	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	DEC 96	MAR 97	56	20,464	YES	NO		

D. REMARKS

- * FY96 WILL BE THE FIRST TIME THE LAW ENFORCEMENT VEHICLE IS BOUGHT IN ITALY AND TURKEY.
- # FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS.

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO. 10	PAGE NO. 20	Exhibit P-5a Procurement History and Planning
----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE MARCH 1996				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE ARMORED SEDAN					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	1	1	1	1	1	1
COST (In Mil)		0	\$.259	\$.287	\$.243	\$.252	\$.263	\$.274

- Under the responsibility of the Air Force Office of Special Investigations (AFOSI), nontactical Fully Armored Vehicles (FAV) 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).
- Terrorist threats are investigated and validated by US/foreign, federal and military (i.e., CIA and DoD) counter-intelligence anti-terrorism experts by providing annual threat assessments to services to support FAV requirements.
- Seven of the FAV's on hand have exceeded their life expectancy of eight years or 72,000 miles. Through factory reconditioning (i.e., engine, drive train, major components, etc.) by Mercedes-Benz, vehicle life has been extended by 4 to 5 years. 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 FAV's a second time.
- Currently, 6 of our 13 FAV's (1987 or newer) meet current DoD FAV ballistic standards. New technology introduced during the past 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.
- FY97 funding continues the USAF FAV replacement program. A replacement buy is essential to ensure all principals are provided optimum protection against terrorist activities. Based on terrorist threat analysis, Air Force FAV resources have been reduced from 15 to 13 during the past year. The total Air Force FY97 procurement requirement is 1 against an inventory objective of 10.
- Unit Cost: \$287,000.
- ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO. 11	PAGE NO. 21	
--	--	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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)										
94	USAFE (MERCEDES-BENZ, GERMANY)	FCA/FRG	AFMC/WR-ALC	SEP 95	JAN 96	2	177,186			
FY96	USAFE (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	MAY 96	SEP 96	1	259,000	YES	NO	
FY97	USAFE (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	MAY 97	SEP 97	1	287,000	YES	NO	

D. REMARKS		
NOTE: FCA = Fund Cite Authorization.		
P-1 SHOPP LIST ITEM NO. 11	PAGE NO. 22	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	136	317	234	94	54	179
COST (In Mill)		0	\$2.801	\$6.887	\$4.946	\$2.028	\$1.196	\$4.051

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. The vehicle is 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 FY97 procurement requirement is 2,559 against an inventory objective of 4,016.

2. In FY95, this item is included in Items Less Than \$2,000,000, P-1 Line 22.

3. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	57	1,179,672	8	165,568
FY97	157	3,320,707	19	401,869

	P-1 SHOPP LIST ITEM NO. 12	PAGE NO. 23	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/VEHICULAR EQUIPMENT			TRUCK, CARGO-UTILITY, 3/4T, 4X4				MULTIPLE - See P-5A.					
Weapon System Cost Elements	IDENT CODE	FY 1995			FY 1996			FY 1997				
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
US (BPAC 2061)	A						133	20696	2753	270	21151	5711
JAPAN (BPAC 2062)	A						3	16198	49	6	16554	99
US BI-FUEL CNG (BPAC 2064)	A									41	26276	1077
TOTALS							136		2801	317		6887

	P-1 SHOPP LIST ITEM NO. 12	PAGE NO. 24	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
FY94	GSA (FORD) DETROIT, MI	OPTION	AFMC/WR-ALC	FEB 94	SEP 94	7	19,630			
FY96	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	SEP 96	APR 97	133	20,696	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	270	21,151	YES	NO	
JAPAN (BPAC 2062)										
FY95*	PACAF (SUBARU) JAPAN	FCA/JAPAN	AFMC/WR-ALC	JUL 95	AUG 95	1	16,130			
FY96	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 96	JUL 96	3	16,198	YES	NO	
FY97	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 97	JUL 97	6	16,554	YES	NO	
US BI-FUEL CNG (BPAC 2064)										
FY97 **	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	41	26,276	YES	NO	

D. REMARKS

* This item was funded in P-1 Line 22, Items Less Than \$2,000,000, in FY95.

** First time buy of BI-Fuel CNG 3/4T 4X4 Cargo Truck.

NOTE: FCA = Fund Cite Authorization.

	P-1 SHOPP LIST ITEM NO. 12	PAGE NO. 25	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	257	216	42	25	177
COST (In Mil)		0	0	\$6.392	\$5.140	\$1.001	\$0.631	\$4.560

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 FY97 procurement requirement is 1,586 against an inventory objective of 3,546.

2. In FY95 and FY96, this item is included in Items Less Than \$2,000,000, P-1 Line 22.

3. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	0	0	0	0
FY97	13	308,789	0	0

	P-1 SHOPP LIST ITEM NO. 13	PAGE NO. 26	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/VEHICULAR EQUIPMENT			TRUCK, CARGO-UTILITY, 1/2T, 4X2				MULTIPLE - See P-5A.						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

S (BPAC 2071)	A										81	23753	1924
FRG (BPAC 2072)	A										39	18525	722
ITALY (BPAC 2073)	A										39	20429	797
JAPAN (BPAC 2074)	A										2	13234	26
US BI-FUEL CNG (BPAC 2076)	A										93	30991	2882
KOREA (BPAC 2077)	A										3	13234	40
TOTALS											257		6392

	P-1 SHOPP LIST ITEM NO. 13	PAGE NO. 27	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	-------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT	C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Cost Element/ FISCAL YEAR</th> <th style="width: 15%;">CONTRACTOR/ LOCATION</th> <th style="width: 10%;">CONTRACT METHOD & TYPE</th> <th style="width: 10%;">CONTRACTED BY</th> <th style="width: 8%;">AWARD DATE</th> <th style="width: 8%;">DATE OF FIRST DELIVERY</th> <th style="width: 8%;">QUANTITY</th> <th style="width: 8%;">UNIT COST</th> <th style="width: 5%;">SPECS AVAIL NOW</th> <th style="width: 5%;">SPEC REV REQ'D</th> <th style="width: 5%;">IF YES, WHEN AVAIL</th> </tr> </table>	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	
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)										
95 *	H. P. SMITH LEASING	FCA/ACC	AFMC/WR-ALC	AUG 95	AUG 95	1	5,651**			
FY95 *	GSA (HENDRIX GMC) FLINT, MI	MIPR	AFMC/WR-ALC	SEP 95	JAN 96	16	22,564			
FY96 *	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	SEP 96	JAN 97	110	16,255***	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	81	23,753	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	
ITALY (BPAC 2073)										
99	17AF (FIAT) ITALY	C/FP	AFMC/WR-ALC	SEP 89	MAR 90	7	16,798			
FY97	17AF (UNKNOWN) ITALY	C/FP	AFMC/WR-ALC	APR 97	OCT 97	39	20,429	YES	NO	

D. REMARKS

- * This item was funded in P-1 Line 22, items Less Than \$2,000,000, in FY95 AND FY96.
- ** Lease Buyout.
- *** Based on FY95 contract price, FY96 is underfunded. Quantity reduction or below threshold reprogramming may be necessary.
- # First time buy of BI-Fuel CNG 1/2T 4x2 Cargo-Utility Truck.
- First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

JAPAN (BPAC 2074)										
FY95 *	PACAF (TOYOTA) JAPAN	FCA/JPN	AFMC/WR-ALC	JUN 95	AUG 95	2	12,814			
FY96 *	PACAF (UNKNOWN) JAPAN	FCA/JPN	AFMC/WR-ALC	JUN 96	AUG 96	10	10,600***	YES	NO	
FY97	PACAF (UNKNOWN) JAPAN	FCA/JPN	AFMC/WR-ALC	JUN 97	AUG 97	2	13,234	YES	NO	
US BI-FUEL CNG (BPAC 2076)										
FY97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	FUN 97	93	30,991	YES	NO	
KOREA (BPAC 2077)										
FY97 ●	PACAF (UNKNOWN) KOREA	FCA/KOREA	AFMC/WR-ALC	JUL 97	SEP 97	3	13,234	YES	NO	

D. REMARKS

- * This item was funded in P-1 Line 22, Items Less Than \$2,000,000, in FY95 AND FY96.
- ** Lease Buyout.
- *** Based on FY95 contract price, FY96 is underfunded. Quantity reduction or below threshold reprogramming may be necessary.
- # First time buy of Bi-Fuel CNG 1/2T 4x2 Cargo-Utility Truck.
- First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK, PICKUP, 1/2T, 4X2				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		167	236	572	386	458	154	447
COST (In Mil)		\$2.198	\$2.479	\$8.678	\$5.186	\$6.011	\$2.230	\$6.614

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 FY97 procurement requirement is 3,609 against an inventory objective of 6,258.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	56	737,072	0	0
FY96	81	840,618	1	10,378
FY97	173	2,359,547	0	0

	P-1 SHOPP LIST ITEM NO. 14	PAGE NO. 30	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION				
OPAF/VEHICULAR EQUIPMENT				TRUCK, PICKUP, 1/2T, 4X2					MULTIPLE - See P-5A				
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
		S (BPAC 2111)	A				167	13162	2198	154	10378	1598	370
FRG (BPAC 2112)	A							20	14376	288	25	14598	365
ITALY (BPAC 2114)	A							21	7990	168	25	8003	200
KOREA (BPAC 2117)	A										9	9353	84
US CNG BI-FUEL (BPAC 2118)	A							41	10378	425	143	20863	2983
TOTALS					167		2198	236		2479	572		8678

	P-1 SHOPP LIST ITEM NO. 14	PAGE NO. 31	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
95	GSA (CHRYSLER) CHICAGO, IL	MIPR	AFMC/WR-ALC	SEP 95	DEC 95	167	13,162			
FY96	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	SEP 96	DEC 96	154	10,378*	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	370	13,639	YES	NO	
FRG (BPAC 2112)										
FY94	ARMY (VW) GERMANY	MIPR	AFMC/WR-ALC	JAN 94	MAR 94	70	14,475			
FY96	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 96	JUN 96	20	14,376#	YES	NO	
FY97	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	JAN 97	MAR 97	25	14,598	YES	NO	

D. REMARKS
 * BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
 # BASED ON FY94 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
 © FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF.

	P-1 SHOPP LIST ITEM NO. 14	PAGE NO. 32	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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)										
FY89	AF (FIAT) ENGLAND	MIPR	AFLC/WR-ALC	AUG 89	FEB 90	17	6,578			
FY96	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 96	FEB 97	21	7,990	YES	NO	
FY97	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 97	FEB 98	25	8,003	YES	NO	
KOREA (BPAC 2117)										
FY97 ©	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 97	SEP 97	9	9,353	YES	NO	
US CNG BI-FUEL (BPAC 2118)										
FY94	GSA (CHEVROLET) PONTIAC, MI	MIPR	AFMC/WR-ALC	JUN 94	JAN 95	29	17,571			
FY96	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 96	JAN 97	41	10,378#	YES	NO	
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 97	JAN 98	143	20,863	YES	NO	

D. REMARKS

- * BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
- # BASED ON FY94 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
- © FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF.

	P-1 SHOPP LIST ITEM NO. 14	PAGE NO. 33	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK, PICKUP, COMPACT					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		493	433	556	399	244	75	243
COST (In Mil)		\$5.855	\$4.755	\$9.775	\$4.869	\$3.032	\$0.955	\$3.162

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 FY97 procurement requirement is 3,703 against an inventory objective of 6,513.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	70	832,720	37	440,152
FY96	5	54,735	5	54,735
FY97	34	408,000	55	1,057,815

	P-1 SHOPP LIST ITEM NO. 15	PAGE NO. 34	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

IS (BPAC 2121)	A				484	11896	5758	414	10976	4544	117	12,000	1404
JAPAN (BPAC 2122)	A				9	10847	98	19	11100	211	5	11200	56
US CNG (BPAC 2124)	A										430	19233	8270
KOREA (BPAC 2125)	A										4	11250	45
TOTALS					493		5855	433		4755	556		9775

	P-1 SHOPP LIST ITEM NO. 15	PAGE NO. 35	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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)										
95	GSA (CHRYSLER) CHICAGO, IL	MIPR	AFMC/WR-ALC	SEP 95	FEB 96	590	11,897			
FY96	GSA (UNKNOWN) CHICAGO, IL	OPTION	AFMC/WR-ALC	JAN 96	JUN 96	414	11,394*			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUL 97	117	12,000	YES	NO	
4X2 JAPAN (BPAC 2122)										
FY95	PACAF (TOYOTA) JAPAN	FCA/JAPAN	AFMC/WR-ALC	JUN 95	SEP 95	9	10,847			
FY96	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 96	SEP 96	19	11,100	YES	NO	
FY97	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 97	SEP 97	5	11,200	YES	NO	
US CNG (BPAC 2124)										
FY97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUL 97	430	19,233	YES	NO	
D. REMARKS * THE JANUARY AWARD WAS FOR A UNIT COST OF \$11,394. THIS INCREASE ISN'T SHOWN ON THE P-40 OR P-5 EXHIBITS BECAUSE IT WAS POSTED AFTER THE PRESIDENT'S BUDGET CUTOFF DATE. # 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.										
				P-1 SHOPP LIST ITEM NO. 15	PAGE NO. 36	Exhibit P-5a Procurement History and Planning				

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

KOREA (BPAC 2125)										
FY97 ●	PACAF (UNKNOWN)	FCA/KOREA	AFMC/WR-ALC	JUN 97	SEP 97	4	11,250	YES	NO	

D. REMARKS

- * THE JANUARY AWARD WAS FOR A UNIT COST OF \$11,304. THIS INCREASE ISN'T SHOWN ON THE P-40 OR P-5 EXHIBITS BECAUSE IT WAS POSTED AFTER THE PRESIDENT'S BUDGET CUTOFF DATE.
- # 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.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK, MULTI-STOP, 1T, 4X2				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		436	164	419	455	187	80	64
COST (In MH)		\$9.493	\$3.671	\$9.537	\$11.077	\$4.412	\$1.943	\$1.597

1. This family group consists of commercial panel trucks with sliding front doors, double rear doors, and delivery vans with cut-off doors 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 FY97 procurement requirement is 4,382 against an inventory objective of 6,897.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	23	500,342	0	0
FY96	0	0	5	112,540
FY97	37	846,523	32	732,128

	P-1 SHOPP LIST ITEM NO. 16	PAGE NO. 38	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/VEHICULAR EQUIPMENT				TRUCK, MULTI-STOP, 1T, 4X2				MULTIPLE - SEE P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	30,118	30						
DELIVERY VAN US (BPAC 2165)	A				435	21754	9463	161	22508	3624	412	22879	9426
DELIVERY VAN JAPAN (BPAC 216C)	A							3	15818	47	7	15857	111
TOTALS					436		9493	164		3671	419		9537

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
95	GSA (CARTER CHEVY) OKARCHE, OK	MIPR	AFMC/WR-ALC	SEP 95	FEB 96	1	30,118			
DELIVERY VAN US (BPAC 2165)										
FY95	GSA (CARTER) UNION CITY, IN	OPTION	AFMC/WR-ALC	FEB 95	SEP 95	435	21,754			
FY96	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	SEP 96	APR 97	161	22,508	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	412	22,879	YES	NO	
DELIVERY VAN JAPAN (BPAC 216C)										
FY96 #	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 96	OCT 96	3	15,818	YES	NO	
97	PACAF (UNKNOWN)	FCA/JAPAN	AFMC/WR-ALC	JUN 97	OCT 97	7	15,857	YES	NO	

D. REMARKS
FIRST BUY IN JAPAN. PRICE ESTIMATE PROVIDED BY HQ PACAF BASED ON MARKET PRICE PLUS ESCALATION.
NOTE: FCA = FUND CITE AUTHORIZATION.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE TRUCK CARRYALL					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	145	133	119	81	165
COST (In Mil)		0	0	\$2.989	\$2.824	\$2.506	\$1.894	\$3.527

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 FY97 procurement requirement is 1,521 against an inventory objective of 4,050.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	0	0	0	0
FY97	45	881,721	0	0

	P-1 SHOPP LIST ITEM NO. 17	PAGE NO. 41	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
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 1995			FY 1996			FY 1997		
		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										37	17208	637
US 9 PASSENGER 4X4 (BPAC 2196)	A										9	27070	244
US 15 PASSENGER 4X2 (BPAC 219A)	A										15	22175	333
US 15 PASSENGER 4X2 BI- FUEL (BPAC 219E)	A										5	27093	135
US 7 PASS 4X2 (BPAC 219H)	A										41	17200	705
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)	A										11	20889	230
US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)	A										13	22126	288
US LOW PROFILE 4X2 BI-FUEL (BPAC 219U)	A										6	26766	161
US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V)	A										8	31988	256
TOTALS											145		2989

P-1 SHOPP LIST
ITEM NO.
17

PAGE NO.
42

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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			
97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	37	17,208	YES	NO	
US 9 PASSENGER 4X4 (BPAC 2196)										
FY94	GSA (GMC) JANESVILLE, WI	OPTION	AFMC/WR-ALC	MAR 95	NOV 95	12	26,214			
FY95 *	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	SEP 96	MAY 97	9	26,214	YES	NO	
FY96 *	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	SEP 96	MAY 97	11	23,557**	YES	NO	
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	OCT 97	9	27,070	YES	NO	
US 15 PASSENGER 4X2 (BPAC 219A)										
94	GSA (CHEVROLET) FLINT, MI	OPTION	AFMC/WR-ALC	DEC 94	MAR 95	19	21,328			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	15	22,175	YES	NO	

D. REMARKS

- * FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
- ** BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
- # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.
- © FY95 PRICE ESTIMATE PROVIDED BY GSA. BASED ON THIS ESTIMATE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.

P-1 SHOPP LIST ITEM NO. 17	PAGE NO. 43	Exhibit P-5a Procurement History and Planning
----------------------------------	----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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 BI-FUEL (BPAC 219E)										
97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	5	27,093	YES	NO	
US 7 PASSENGER 4X2 (BPAC 219H)										
FY95	GSA (CHEVROLET) OKARCHE, OK	MIPR	AFMC/WR-ALC	SEP 95	DEC 95	12	16,973			
FY96	GSA (CHEVROLET) OKARCHE, OK	OPTION	AFMC/WR-ALC	FEB 96	JUN 96	4	16,926			
FY97	GSA (CHEVROLET) OKARCHE, OK	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	41	17,200	YES	NO	
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)										
97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	11	20,889	YES	NO	
US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)										
FY97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	13	22,126	YES	NO	

D. REMARKS
 * FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
 ** BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.
 # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.
 ● FY96 PRICE ESTIMATE PROVIDED BY GSA. BASED ON THIS ESTIMATE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.

	P-1 SHOPP LIST ITEM NO. 17	PAGE NO. 44	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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 LOW PROFILE 4X2 BI-FUEL (BPAC 219U) 97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	6	26,766	YES	NO	
US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V) FY97 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	8	31,988	YES	NO	

D. REMARKS		
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.		
** BASED ON FY95 CONTRACT PRICE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.		
# FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.		
⊙ FY95 PRICE ESTIMATE PROVIDED BY GSA. BASED ON THIS ESTIMATE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.		
P-1 SHOPP LIST ITEM NO. 17	PAGE NO. 45	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK, TRACTOR, OVER 5T				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	57	38	33	44	78	75
COST (In Mil)		0	\$2.799	\$2.788	\$2.603	\$3.486	\$6.429	\$6.183

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 FY97 procurement requirement is 1,440 against an inventory objective of 2,706.

2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	0	0	6	273,456
FY97	6	428,756	0	0

	P-1 SHOPP LIST ITEM NO. 20	PAGE NO. 46	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996		
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 1995			FY 1996			FY 1997				
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
4,500 GVW US (BPAC 2331)	A						51	45576	2324	6	74323	446
55,000 GVW US (BPAC 2335)	A						1	75100	75	13	77560	1008
MISSILE SUPPORT (BPAC 2336)	A						5	79922	400	2	85308	171
39,500 GVW US (BPAC 2338)	A									17	68439	1163
TOTALS							57		2799	38		2788

	P-1 SHOPP LIST ITEM NO. 20	PAGE NO. 47	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

44,600 GVW US (BPAC 2331)										
FY95 *	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	FEB 95	APR 95	6	70,050			
FY96	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	FEB 96	MAY 96	51	62,649			
FY97	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	DEC 96	MAR 97	6	64,027	YES	NO	
55,000 GVW US (BPAC 2335)										
FY95 *	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	APR 95	JUL 95	1	73,101			
FY96	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 96	APR 96	1	79,500			
FY97	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	DEC 96	MAR 97	13	81,147	YES	NO	

D. REMARKS

* FUNDED IN ITEMS LESS THAN \$2,000,000, CARGO-UTILITY, P-1 LINE 22.
 # BASED ON THE FIRST FY96 CONTRACT PRICE, THE OTHER TWO FY96 UNITS ARE OVER BUDGETED. REPROGRAMMING TO COVER PRICE INCREASES ON LTHER VEHICLES MAY BE POSSIBLE.

	P-1 SHOPP LIST ITEM NO. 20	PAGE NO. 48	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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	68,584			
96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	APR 96	JUL 96	2	137,124#	YES	NO	
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 96	MAR 97	2	71,093	YES	NO	
39,500 GVW US (BPAC 2338)										
FY95 *	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 95	JUN 95	10	64,504			
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 96	MAR 97	17	66,596	YES	NO	

D. REMARKS
 * FUNDED IN ITEMS LESS THAN \$2,000,000, CARGO-UTILITY, P-1 LINE 22.
 # BASED ON THE FIRST FY96 CONTRACT PRICE, THE OTHER TWO FY96 UNITS ARE OVER BUDGETED. REPROGRAMMING TO COVER PRICE INCREASES ON LTHETR VEHICLES MAY BE POSSIBLE.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE CAP VEHICLES					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$.781	\$.781	\$.760	\$.746	\$.744	\$.762	\$.779

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. FY97 continues funding procurement of vehicles to support day-to-day operations.

2. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO. 21	PAGE NO. 50	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE MARCH 1996				
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,00,000 (CARGO-UTILITY)					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$13.059	\$9.180	\$10.240	\$7.415	\$5.852	\$5.851	\$15.010

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

See attached lists of Code A items.

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY95	3,005,989	72,615
FY96	834,644	301,024
FY97	1,536,553	0

	P-1 SHOPP LIST ITEM NO. 22	PAGE NO. 51	
--	---	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

ITEMS LESS THAN \$2,000,000, CARGO-UTILITY

FY 1997

Mar-96

NOMENCLATURE	NSN	QUANTITY	\$ (THOU)
TRUCK PICKUP 3/4T 4X4 (BPAC 2992002)	2320008116869	44	740
TRUCK PICKUP COMPACT 4X4 US (BPAC 2992003)	2320010878223	7	114
SEMI-TRAILER 20T 25 FOOT (BPAC 2993003)	2330008997527	2	43
SEMI-TRAILER VAN CARGO 12T (BPAC 2993006)	2330008655443	2	46
SEMI-TRAILER LOW BED 35T (BPAC 2993007)	2330010516648	1	27
TRUCK TRACTOR 15T 6X4 M-915 (BPAC 2996013)	2320011252640	1	106
TRUCK CUCV UTILITY M-1009 (BPAC 2996024)	2320011232665	22	391
TRUCK CUCV CARGO M-1008 (BPAC 2996025)	2320011232671	8	147
TRUCK CUCV SHELTER M-1028 (BPAC 2996026)	2320011275077	29	462
TRAILER HIGH MOBILITY (BPAC 2996036)	2330013886662	1	7
TRUCK CARGO M-35 SLEP (BPAC 2996037)	2320005403963	13	703
TRUCK HMMWV UTILITY M-1097A2) (BPAC 2996039)	2320013808604	41	1466
TRUCK TRACTOR 6X6 51,000 GVW (BPAC 2999001)	2320001175983	1	98
TRAILER 12T S&P (BPAC 299A006)	2330013318867	1	16
TRAILER 3-8T FLATBED (BPAC 299A010)	2330000140494	1	12
TRUCK UTILITY 4000 GVW 4X4 (BPAC 299B001)	2320009889120	5	76
TRUCK UTILITY 6000 GVW 4X4 (BPAC 299B002)	2320010795354	7	150
TRUCK UTILITY 6000 GVW 4X4 KOREA (BPAC 299B012)	2320010795354	3	78
TRUCK UTILITY 6000 GVW 4X4 BI-FUEL (BPAC 299B014)	2320010795354	16	433
TRUCK UTILITY 4000 GVW 4X4 BI-FUEL (BPAC 299B016)	2320009889120	21	435
MINOR REPLACEMENT ITEMS (BPAC 299C002)			881
TRUCK S&P 19000 GVW (BPAC 299C004)	2320010648540	1	30
TRUCK 4X2 6 PASS TRAILER TOW (BPAC 299C010)	2320010107351	11	220
TRUCK CARGO 2.5T 4X2 (BPAC 299C014)	2320007023537	7	252
TRUCK PANEL 4X2 (BPAC 299C018)	2320010132754	22	338
TRUCK PANEL 4X2 JAPAN (BPAC 299C021)	2320010132754	1	13
TRUCK STAKE & PLATFORM 4X2 (BPAC 299C026)	2320008518481	11	222
TRUCK STAKE & PLATFORM 10000 GVW (BPAC 299C027)	2320012507367	68	1463
TRUCK PANEL 4X2 BI-FUEL (BPAC 299C040)	2320010132754	52	1211
TRUCK PANEL 4X2 KOREA (BPAC 299C041)	2320010132754	2	24
TRUCK S&P 1T 4X2 JAPAN (BPAC 299C048)	2320008518481	3	36
TOTALS		404	10240

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE HMMWV, ARMORED					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	50	38	39	28	14	16
COST (In M\$)		0	\$7.170	\$7.396	\$7.544	\$5.594	\$2.805	\$2.929

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 FY97 procurement requirement is 320 against an inventory objective of 1,526.

2. This is a joint program with the US Army to provide a light 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 in support of nuclear weapon security and Air Base Defense operations.

3. ANG/AFR: N/A.

NOTE: Exhibit P-1 shows an FY96 program of \$7.1M; the correct program is \$7.2M.

	P-1 SHOPP LIST ITEM NO. 24	PAGE NO. 53	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/VEHICULAR EQUIPMENT			HMMWV, ARMORED					AM GENERAL, MISHAWAKA, IN					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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							34	194632	6617	38	194632	7396
HMMWV, LIGHT ARMORED, M1025A2 (BPAC 3202)	A							16	34563	553			
TOTALS								50		7170	38		7396

	P-1 SHOPP LIST ITEM NO. 24	PAGE NO. 54	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)**

FY95 * ①	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR	AFMC/WR-ALC	FEB 96	SEP 96	8	188,500			
FY96	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	APR 96	NOV 96	34	194,632	YES	NO	
FY97	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	FEB 97	AUG 97	38	194,632	YES	NO	

**HMMWV, ARMORED, M-1025A2
(BPAC 3202)**

FY94 *	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	MAR 96	SEP 96	6	76,170	YES	NO	
FY96	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	APR 96	OCT 96	16	34,563#	YES	NO	

D. REMARKS
 * FIRST TIME BUY OF M-1116 AND M-1025A2. UNIT PRICE ESTIMATES (FIXED PRICE) WERE PROVIDED BY US ARMY/TACOM.
 ① FUNDED IN ITEMS LESS THAN \$2,000,000, P-1 LINE 26.
 # BASED ON TACOM'S REVISED PRICE ESTIMATE, FY96 IS UNDERFUNDED. QUANTITY REDUCTION OR BELOW THRESHOLD REPROGRAMMING MAY BE NECESSARY.

	P-1 SHOPP LIST ITEM NO. 24	PAGE NO. 55	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRACTOR, TOW, FLIGHTLINE				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	152	108	83	108	60	14
COST (In Mil)		0	\$4.460	\$3.120	\$2.372	\$3.531	\$2.010	\$.480

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.

2. In FY95, this item was included in Items Less Than \$2,000,000, Special Purpose, P-1 Line 26. The total Air Force FY97 procurement requirement is 2,559 against an inventory objective of 4,409.

3. Code A.

4. Unit Price: \$28,893

5. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0	0	0
FY96	2	59,370	0	0
FY97	17	504,645	0	0

	P-1 SHOPP LIST ITEM NO. 25	PAGE NO. 56	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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)										
FY95 *	ENTWHISTLE CO. HUDSON, MA	CM-4/FP (4TH YR)	AFMC/WR-ALC	JUL 95	JUL 98	9	29,885			
96	ENTWHISTLE CO. HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 95	NOV 96	152	29,340			
FY97	ENTWHISTLE CO. HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	JAN 97	JAN 98	108	28,893	YES	NO	

D. REMARKS
 * FUNDED IN ITEMS LESS THAN \$2,000,000, SPECIAL PURPOSE, P-1 LINE 51.

	P-1 SHOPP LIST ITEM NO. 25	PAGE NO. 57	Exhibit P-5a Procurement History and Planning
--	----------------------------------	----------------	---

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (SPECIAL PURPOSE)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	0	0	0	0	0
COST (In Mil)		\$6.701	\$7.112	\$4.753	\$9.802	\$15.249	\$10.294	\$13.407

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
FY95	3,309,068	393,767
FY96	2,400,857	23,833
FY97	341,549	45,978

	P-1 SHOPP LIST ITEM NO. 26	PAGE NO. 59	
--	----------------------------------	----------------	--

UNCLASSIFIED

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

UNCLASSIFIED

FY 1997

Mar-96

NOMENCLATURE	NSN	QUANTITY	\$ (THOU)
TRUCK REFUSE LOADPACKER (BPAC 3991001)	2320008337514	1	52
TRUCK REFUSE FRONT LOAD 24CY (BPAC 3991003)	2320008976837	2	250
SEMI-TRAILER WATER DISTRIBUTOR 5500 GAL (BPAC 3994010)	3825005703417	1	40
TRAILER CHASSIS 1T MB-1 (BPAC 3995001)	2330005403715	9	34
TRUCK WRECKER 5T (BPAC 3996033)	2320013544528	3	671
TRUCK REEFER VAN 19,000 GVW (BPAC 3997001)	2320007704467	8	356
TRUCK 9T HI LIFT (BPAC 3999002)	2320005403991	1	108
TRUCK 3T HI LIFT (BPAC 3999003)	2320005403489	1	74
TRUCK MAINTENANCE 3/4T 4X4 BI-FUEL (BPAC 399A005)	2320005411714	6	169
TRUCK MAINTENANCE 3/4T 4X4 (BPAC 399A006)	2320005411714	10	208
TRUCK MAINTENANCE HI-REACH 45 FT (BPAC 399A007)	2320009955610	3	284
TRUCK PHONE MAINTENANCE STANDARD (BPAC 399A010)	2320008019193	8	158
TRUCK PHONE MAINTENANCE COMPACT (BPAC 399A011)	2320010939261	25	303
TRUCK MAINTENANCE 1T (BPAC 399A021)	2320013437375	1	19
TRUCK MAINTENANCE COMPACT (BPAC 399A023)	2320010939261	20	391
TRUCK STAKE & PLATFORM 3T (BPAC 399B001)	2320009354696	1	69
TRUCK HYDRANT HOSE R-12 (BPAC 399B002)	2320011252481	13	1469
TRACTOR INDUSTRIAL IW-70 (BPAC 399C008)	2420001138984	4	98
TOTALS		117	4753

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE 60K A/C LOADER				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		15	35	37	45	57	59	30
COST (In M\$)		\$29.475	\$42.336	\$40.296	\$50.517	\$59.660	\$60.562	\$31.652

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.

2. 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.

3. R&D funds provided four prototypes (two each from two contractors). 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 in April 1994. The inventory objective is 318 loaders; 60 are funded in FY94 thru FY96; 288 will be on hand at the end of the FY2001 funded delivery period.

4. Code A.

5. Unit Price: \$948,432.

6. ANG/AFR: N/A.

	P-1 SHOPP LIST ITEM NO. 31	PAGE NO. 61	
--	--	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
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.					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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				15	1341400	20121	35	1085171	37981	37	948432	35092
NON-RECURRING COST (BPAC 5122)	A						9303			3836			3901
DATA (BPAC 5123)	A						51			51			85
SUPPLY SUPPORT (BPAC 5124)	A									468			1218
TOTALS					15		29475	35		42336	37		40296

	P-1 SHOPP LIST ITEM NO. 31	PAGE NO. 62	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	-------------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE 60K A/C 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)										
FY95	SYSTEMS & ELECTRONICS, INC., ST LOUIS, MO	C/FPIS (2ND YEAR)	AFMC/WR-ALC	OCT 94	AUG 96	15	1,341,400			
FY96	SYSTEMS & ELECTRONICS, INC., ST LOUIS, MO	C/FPIS (3RD YEAR)	AFMC/WR-ALC	NOV 95	MAR 97	35	1,085,171			
FY97	SYSTEMS & ELECTRONICS, INC., ST LOUIS, MO	C/FPIS (4TH YEAR)	AFMC/WR-ALC	DEC 96	DEC 97	37	948,432	YES	YES	FEB 98*

D. REMARKS
 * FINAL SPECIFICATIONS WILL BE THE CONTRACTOR'S DESIGN UNIQUE SPECIFICATIONS WHICH WILL BE DELIVERED 60 DAYS AFTER PCA.
 NOTE: C/FPIS = COMPETITIVE/FIXED PRICE INCENTIVE WITH SUCCESSIVE TARGETS.
 FY97 CONTRACT AWARD MUST OCCUR NLT DEC 96 TO PREVENT PRODUCTION BREAK.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (MATERIALS HANDLING EQUIP)					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	\$2.866	\$1.725	\$2.133	\$4.981	\$4.465	\$5.013	\$3.928	

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
FY95	0	71,950
FY96	0	0
FY97	216,400	0

	P-1 SHOPP LIST ITEM NO. 32	PAGE NO. 65	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

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

FY 1997

Mar-96

NOMENCLATURE	NSN	QUANTITY	\$ (THOU)
FORKLIFT 4, ELECTRIC ARTICULA BOOM (BPAC 5991001)	3930011450120	1	85
FORKLIFT 15K DED (BPAC 5991004)	3930010113650	1	59
FORKLIFT 4K ELECTRIC ST (BPAC 5991005)	3930000539175	6	189
FORKLIFT 6K ELECTRIC ST (BPAC 5991013)	3930010471157	2	55
FORKLIFT 6K DED (BPAC 5991026)	3930010525219	13	354
FORKLIFT 4K (BPAC 5991027)	3930010130338	2	45
FORKLIFT 10K ADVERSE TERRAIN (BPAC 5991030)	3930004889695	7	648
FORKLIFT 10K STANDARD (BPAC 5991031)	3930008566897	1	47
CRANE FLOOR PORTABLE (BPAC 5992001)	3950005403299	1	16
CRANE PORTABLE FLOOR (BPAC 5992007)	3950000475287	1	1
CONVEYOR BELT TRUCK MOUNTED (BPAC 5993001)	3930000195630	5	146
MINOR REPLACEMENT ITEMS			184
WAREHOUSE TRACTOR 4K (BPAC 5994007)	3930010070115	14	277
TRAILER PALLET CARGO (BPAC 5994010)	3920004809774	5	20
BEAM HOISTING (BPAC 5994020)	3940012352568	1	7
TOTALS		60	2133

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE				
				MODIFICATIONS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In MH)		\$.200	\$ 1.310	\$ 1.849	\$.193	\$.190	\$.189	\$.188

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 primary modification program in FY97 is the 25,000 (25K) Aircraft Cargo Loader Mod. This program is to modify the recently fielded 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. In addition to the 25K loader modification, FY97 includes \$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	PY	FY95	FY96	FY97	FY98	FY99	FY00	FY01
LVV 01	25K LOADER			1.3	1.6				
--	MISC LOW COST MODS		0.2		0.2	0.2	0.2	0.2	0.2
	TOTAL		0.2	1.3	1.8	0.2	0.2	0.2	0.2

	P-1 SHOPP LIST ITEM NO. 33	PAGE NO. 67	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED
Exhibit P3A
Specific Modifications

MARCH 1998

Modification Title and No: 25K Aircraft Cargo Loader, LVV 01																						
Models of Systems Affected: Vehicles - 25K Aircraft Cargo Loader																						
Description/Justification: This modification will increase the lift height of the 25K Aircraft Cargo Loader from 13 feet to 18 feet to make it capable of loading and off-loading cargo on wide-body military and Civil Reserve Aircraft Fleet (CRAF) aircraft.																						
FY96 funds procure and install one kit. FY 97 funds will procure and install 68 kits.																						
Development Status/Major Development Milestones: CCB: Apr 95; FAA: Oct 96																						
Financial Plan: (\$ in Millions)																						
PY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TC		TOTAL					
RDT&E: None	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
Procurement																						
Kit Monthly																						
Installation Kit																						
Installation Kit Nonrecuring																						
Equipment					1	1.0	68	1.1											69	2.1		
Equipment Nonrecuring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support																						
Installation of Hardware																						
(PY) Eopt (Kits)																						
(FY95) Eopt (Kits)																						
(FY96) Eopt (1 Kit)					1	0.3														1	0.3	
(FY97) Eopt (68 Kits)							68	0.5												68	0.5	
(FY98) Eopt (Kits)																						
(FY99) Eopt (Kits)																						
(FY00) Eopt (Kits)																						
(FY01) Eopt (Kits)																						
(FY) (IC) Eopt (0 Kits)																						
Total Installation Cost					1	0.3	68	0.5												69	0.8	
Total Procurement Cost					1	1.3	68	1.6												69	2.9	
Method of Installation: Contractor Installed											Administrative Lead Time: 6 months					Production Lead Time: 3 months						
Contract Dates	FY95		FY96: Mar 96		FY97: Oct 96																	
Install Dates	FY95		FY96: Jun 96		FY97: Jan 97																	
Install for PY			FY 95		FY 96		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	TOTAL					
Input					1				21	23	24						69					
Output						1				21	23	24					69					

UNCLASSIFIED

MARCH 1996

**EXHIBIT P3N
MODIFICATION INSTALLATION SUMMARY
(TOA, Dollars in Millions)**

System/Modification: Vehicular Equipment

Mod #

Title

FY95 FY96 FY97 FY98 FY99 FY00 FY01

LVV 01

25K Aircraft Cargo Loader

1.3 1.6

Vehicle Total

1.3 1.6

ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1997

Table of Contents

ELECTRONIC & TELECOMMUNICATIONS EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
42	Theater Air Control Sys Improve	1
43	Weather Observ/Forecast	14
44	Strategic Command and Control	21
45	Cheyenne Mountain Complex	29
49	Automatic Data Processing Equipment	34
50	WWMCCS/Global Command & Control (GCCS)	58
51	Mobility Command & Control	63
52	Air Force Physical Security System	68
53	Combat Training Ranges	77
54	C3 Countermeasures	83
55	Base Level Data Auto Program	91
56	Theater Battle Mgt C2 Sys	99
58	Base Info Infrastructure	107
59	USCENTCOM	129
60	Automated Telecommunications Pgm	132
64	Space Based IR Sensor Pgm Space	136
65	Navstar GPS Space	139
66	DMSF	143
67	Nudet Detection Sys	147
68	AF Satellite Control Network	150
69	Eastern/Western Range I&M	156
70	MILSATCOM	165
71	Space Mods	181
72	Tactical C-E Equipment	202
73	Combat Search & Rescue	211
74	Radio Equipment	215
75	TV Equipment (AFRTV)	220
76	CCTV/Audiovisual Equipment	223
79	Items Less Than \$2,000,000 (Organization & Base)	229
80	Comm Elect Mods	231

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY 2001
QUANTITY								
COST (In Mil)		67.756	25.214	21.698	40.491	39.682	37.216	37.080

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 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 systems and resources to support situational awareness, joint, allied and combined forced 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 missions. GTACS also plays a major role in Theater Missile Defense (TMD) and the evolving concept of Theater Battle Management (TBM). The requirements for funding are provided in the following categories:

a. **MODULAR CONTROL EQUIPMENT (MCE):** These mobile C2 centers link with existing and planned sensors and other communications to provide the Joint Forces Air Component Commander an integrated air picture for C2 on the tactical battlefield. The MCE Product Improvement Program (P3I), begun in FY93 increases capability and includes, among other things, Automated Air Tasking Order (AATO) and workstation technology refreshment. FY97 funding provides funding for Interim Contractor Support (ICS) and MCE program support.

b. **JOINT TACTICAL INFORMATION DISTRIBUTION SYSETM (JTIDS):** This is a portion of the P3I and was restructured in Feb 93 to include the procurement of 35 JTIDS modules and the associated JTIDS Interface Boxes (JIBs). No FY97 funding is requested.

c. **OPERATIONS MODULE (OM) INTERFACE KITS:** This equipment links the JTIDS with the MCE Operations Module (OM). FY95 funding procured 41 OM interface kits out of a total Air Force requirement of 102. FY97 funding provides for program support to include kitting, storage and integration costs.

d. **AN/TPS-75 RADAR:** This radar is the sensor for the TACS. Equipment procurement is currently required to upgrade radar capability. FY96 provides funding for procurement of 12 flow meter test sets and 25 UPX-27 Identify Friend or Foe (IFF) interrogator sets. No FY97 funding is requested.

e. **ANTLQ-32 ANTI-RADIATION MISSILE (ARM) DECOY:** This is an ancillary capability to the AN/TPS-75 radar. The ARM decoy was fielded in FY95; FY97 funding will provide Interim Contractor Support (ICS) until an organic depot capability is established.

	P-1 SHOPP LIST ITEM NO. 42	PAGE NO. 1	
--	---	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE

MARCH 1996

APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

THEATER AIR CONTROL SYSTEM IMPROVEMENTS

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
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. Mapping is a key functional area critical for AFMSS operations. The Common Mapping Production System (CMPS) produces digitized map and imagery source data used by joint weapon systems and systems such as the Global Command and Control System (GCCS). CMPS permits the user to create standard mapping and imagery products, like Compressed ARC Digitized Raster Graphics (CADRG) map data and Controlled Image Base (CIB) imagery, for use by the joint services. One CMPS suite will be installed at the Defense Mapping Agency (DMA) to produce worldwide standard CADRG for all DMA customers. Other CMPS suites are being installed at worldwide Air Force theater level sites and Special Operations Forces (SOF) bases to support urgent and specialized requirements.

The current inventory objectives for AFMSS are: (a) fixed workstations - 614; (b) portable workstations - 2203; (c) Common Mapping Production Systems - 7. FY95 funding procured 92 fixed workstations and 182 portable workstations. Additionally, FY95 procured three Common Mapping Production Systems (CMPS) and completed the requirement for that system. FY96/97 includes funding for program management administrative (PMA) requirements for technical, engineering, and acquisition support for the Mission Planning System. Additionally, FY96 funding will procure 68 fixed workstations and 107 portable workstations. FY97 funding will procure 11 fixed workstations and 314 portable workstations. Through FY97, a total of 466 fixed and 603 portable workstations will have been procured.

P-1 SHOPP LIST
ITEM NO.

42

PAGE NO.

2

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

**APPROPRIATION/BUDGET ACTIVITY
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT**

**P-1 ITEM NOMENCLATURE
THEATER AIR CONTROL SYSTEM IMPROVEMENTS**

		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mill)								

3. ANG/AFR:

	QTY	ANG DOLLARS	QTY	AFR DOLLARS
FY95	-	11.192	-	4.130
FY96	-	2.903	-	2.903
FY97	-	2.797	-	2.797

P-1 SHOPP LIST
ITEM NO.

42

PAGE NO.

3

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			THEATER AIR CONTROL SYSTEM IMPROVEMENTS					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. GTACS					VAR	N/A	(46,194)	VAR	N/A	(7,685)	VAR	N/A	(4,174)
A. MODULAR CONTROL EQUIPMENT (MCE)	A												
MCE EQUIPMENT										3,110			
ICS										496			500
PROGRAM SPT							1,755			2,167			2,789
ENGINEERING SPT							2,400						
NON-RECURRING COSTS (START UP COSTS/DATA SYSTEM INTEGRATION)							12,595						
B. JTIDS KITS	A												
JTIDS TERMINALS					5	680	3,400						
JTIDS MODULES					5	368	1,840						
JTIDS INTERFACE BOX					10	110	1,100						
			P-1 SHOPP LIST ITEM NO.		PAGE NO.		Exhibit P-5 Weapon System Cost Analysis						
			42		A								

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

C. OM INTERFACE KITS	A				41	564	23,104						VAR	N/A	485
D. AN/TPS-75 RADAR NON-RECURRING FLOW MTR TEST SETS UPX-27 IFF SETS	A												(1,512)		
								12	21				135		
								25	45				252		
													1,125		
E. AN/TLQ-32 ARM DECOY ICS	A									N/A			400	N/A	400

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

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		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				VAR	N/A	(21,562)	VAR	N/A	(17,529)	VAR	N/A	(17,524)
FIXED WORKSTNS	A			92	140	12,880	68	157	10,676	11	161	1,771
PORT. WORKSTNS	A			182	43	7,826	107	43	4,601	314	43	13,502
CMPS	A			3	93	279						
ENGINEERING CHG PROPOSALS						124			966			1,152
PROG/ENGR SPT						453			1,286			1,099
TOTAL						67,756			25,214			21,698

	P-1 SHOPP LIST ITEM NO. 42	PAGE NO. 6	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

**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. MODULAR CONTROL EQUIPMENT (MCE) EQUIPMENT										
FY96	MULTIPLE ¹	OPT/FFP ¹	AFMC/ESC	JUN - JUL 96	SEP - OCT 96	VAR	N/A	YES	NO	
B. JTIDS KITS										
JTIDS TERMINALS FY95	GEC MARCONI/ ROCKWELL ²	SS/FFP	AFMC/ESC	MAR 95	AUG 96	5	680			
JTIDS MODULES FY95	NAWC/SM-ALC ³ FT MONMOUTH, NJ	OPT/FFP ⁴	AFMC/ESC	MAR 95	FEB 96	5	368			
JTIDS INTERFACE BOX FY95	NAVY/ELDYNE SAN DIEGO, CA	MIPR/OPT/ FFP ⁵	AFMC/ESC	JUL 95	JUN 97	10	110			

D. REMARKS

1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. GEC MARCONI, TOTOWA, NJ; ROCKWELL, CEDAR RAPIDS, IA
3. MIPR TO NAVAL AIR WARFARE CENTER (NAWC), INDIANAPOLIS, IN, FOR PROCUREMENT OF JM KITS TO BE ASSEMBLED AT SM-ALC.
4. OPTION TO FY93 COMPETITIVE CONTRACT WITH THE NAWC.
5. OPTION TO EXISTING NAVAL IN-SERVICE ENGINEERING-WEST (NISE-WEST) COMPETITIVE CONTRACT WITH ELDYNE CORP, SAN DIEGO, CA.
6. A TOTAL QTY OF 40 WAS PROCURED OFF THE AFMSS BLOCK "B" CONTRACT AND 52 OFF THE BLOCK "C" CONTRACT.
7. AFMSS BLOCK "B" PRODUCTION CONTRACT AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19926-91-C-0040 DEC 92.
8. AFMSS BLOCK "C" PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19926-93-C-0016, DEC 92.

P-1 SHOPP LIST
ITEM NO.
42

PAGE NO.
7

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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
C. OM INTERFACE KITS FY95	LITTON DATA SYS AGOURA HILLS, CA	SS/FFP	AFMC/SM-ALC	SEP 95	MAR 97	41	564			
FY97 PROGRAM SPT - NO ENTRY										
D. AN/TPS-75 RADAR FLOW MTR TEST SETS FY96	NORTHROP- GRUMMAN BALTIMORE, MD	C/FFP	AFMC/SM-ALC	MAR 96	AUG 97	12	21			
UPX-27 IFF SETS FY96	STUART WARNER CORP ANGIOS, MD	C/FFP	AFMC/SM-ALC	MAR 96	AUG 97	25	45			
E. AN/TLQ-32 ARM DECOY ICS - NO ENTRY										

D. REMARKS

1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. GEC MARCONI, TOTOWA, NJ; ROCKWELL, CEDAR RAPIDS, IA
3. MIPR TO NAVAL AIR WARFARE CENTER (NAWC), INDIANAPOLIS, IN, FOR PROCUREMENT OF JM KITS TO BE ASSEMBLED AT SM-ALC.
4. OPTION TO FY93 COMPETITIVE CONTRACT WITH THE NAWC.
5. OPTION TO EXISTING NAVAL IN-SERVICE ENGINEERING-WEST (NISE-WEST) COMPETITIVE CONTRACT WITH ELDYNE CORP, SAN DIEGO, CA.
6. A TOTAL QTY OF 40 WAS PROCURED OFF THE AFMSS BLOCK "B" CONTRACT AND 52 OFF THE BLOCK "C" CONTRACT.
7. AFMSS BLOCK "B" PRODUCTION CONTRACT AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19628-91-C-0040 DEC 92.
8. AFMSS BLOCK "C" PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19628-93-C-0016, DEC 92.

P-1 SHOPP LIST
ITEM NO.
42

PAGE NO.
8

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

**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
2. MISSION PLANNING SYSTEM PROG FIXED WORKSTATIONS										
FY95	LOCKHEED SANDERS	OPT/CPFF ^{6/7/8}	AFMC/ESC	NOV 94	FEB 95	92	140			
FY96	LOCKHEED SANDERS	OPT/CPFF ⁸	AFMC/ESC	JUN 96	DEC 96	68	157	YES	NO	
FY97	LOCKHEED SANDERS NASHUA, NH	OPT/CPFF ⁸	AFMC/ESC	DEC 96	JUN 97	11	161	YES	NO	
PORTABLE WORKSTATIONS										
FY95	LOCKHEED SANDERS	OPT/FFP ⁶	AFMC/ESC	NOV 94	FEB 95	182	43			
FY96	LOCKHEED SANDERS	OPT/CPFF ⁸	AFMC/ESC	APR 96	OCT 96	107	43	YES	NO	
FY97	LOCKHEED SANDERS NASHUA, NH	OPT/CPFF ⁸	AFMC/ESC	DEC 96	JUN 97	314	43	YES	NO	

D. REMARKS

1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. GEC MARCONI, TOTOWA, NJ; ROCKWELL, CEDAR RAPIDS, IA
3. MIPR TO NAVAL AIR WARFARE CENTER (NAWC), INDIANAPOLIS, IN, FOR PROCUREMENT OF JM KITS TO BE ASSEMBLED AT SM-ALC.
4. OPTION TO FY93 COMPETITIVE CONTRACT WITH THE NAWC.
5. OPTION TO EXISTING NAVAL IN-SERVICE ENGINEERING-WEST (NISE-WEST) COMPETITIVE CONTRACT WITH ELDYNE CORP, SAN DIEGO, CA.
6. A TOTAL QTY OF 40 WAS PROCURED OFF THE AFMSS BLOCK "B" CONTRACT AND 92 OFF THE BLOCK "C" CONTRACT.
7. AFMSS BLOCK "B" PRODUCTION CONTRACT AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19829-91-C-0040 DEC 92.
8. AFMSS BLOCK "C" PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19829-93-C-0016, DEC 92.

P-1 SHOPP LIST
ITEM NO.
42

PAGE NO.
9

Exhibr P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)		25.686	7.054	13.944	14.458	19.320	29.982	28.851

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 with the exception of Special Operations Command which is appropriated in Defense Agencies. 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 Automated Weather Distribution System (AWDS) Pre-Planned Product Improvement (P3I) which upgrades AWDS systems at weather units worldwide; 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; and the Automated Surface Observation System (ASOS).

- 1. AUTOMATED WEATHER DISTRIBUTION SYSTEM (AWDS) PRE-PLANNED PRODUCT IMPROVEMENTS (P3I):** Procures hardware and associated software necessary to complete the addition of separate functional capabilities to the AWDS system. Required new capabilities include interoperability with other command and control/support systems, addition of a remote briefing capability, and a product preparation capability. Procurement of upgraded processing and remote briefing capability began in FY94. The number of improvements per system vary dependent upon basic system configuration and mission need. FY95 completes AWDS P3I procurement with the purchase of satellite receiver equipment.
- 2. SATELLITE DATA HANDLING SYSTEM (SDHS) UPGRADE:** This funding procures replacements for logistically unsupportable end items in the existing SDHS system installed in the early 1980s. It provides additional storage/processing capabilities, new sources of satellite data, improved satellite ingest and display, new components for the Defense Meteorological Satellite Program (DMSP) satellite reconstruction site (Site 3), three additional forecast terminals, and additional mass storage. Replacement of these unsupportable end items will extend the system's expected life and improve timeliness of products distributed to operational units via the AWDS. FY95 funding completed the requirement.
- 3. 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 Manual Observing System (MOS) and the Tactical Forecast System (TFS). The MOS is a single-person portable observing system containing essential basic observing equipment. 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

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 14	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)								

the need for special training. The TFS will replace large, error prone systems with dissimilar components. FY97 funds begin procurement of TFS to provide deployed commanders with reliable weather information impacting critical combat operations.

4. **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 Central (AFGWC) (Offutt AFB, NE) to provide improved climatological support to DoD customers worldwide. This program will provide 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 begins in FY96 by replacing AFCCC computer hardware/software. FY97 funds will replace OL-A computer hardware/software and upgrade the AFGWC centralized data base.

5. **HYPERCHANNEL REPLACEMENT:** The HYPERchannel is a proprietary high capacity local area network (LAN) at the Air Force Global Weather Central (AFGWC) (Offutt AFB, NE) which provides data communications between AFGWC's mainframe computer systems and peripheral devices. Requested funding will procure the hardware and associated software to replace the existing computer-to-computer communications links which 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 which will severely impair 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). Procurement of this upgrade begins in FY97.

6. **WEATHER INFORMATION PROCESSING SYSTEM EXPANSION (WIPSE):** This program purchases a Weather Information Processing System (WIPS) processor capability necessary to meet increased requirements for cloud depiction and analysis data for data-sparse locations worldwide. WIPS is the AFGWC front-end processor necessary to provide theater war fighters with critical cloud depiction information. FY95 provided the necessary funding for this requirement.

7. **AUTOMATED SURFACE OBSERVATION SYSTEM (ASOS):** The program procures hardware to meet FY95 fixed weather observation system requirements for Air Force and Army towered and non-towered facilities. The House Appropriations Committee (HAC), as confirmed by the Appropriations Conference Committee, directed the Air Force to participate in the National Weather Service's ASOS program. FY95 funding procured 15 systems. Reference directive language in FY95 HAC Report #103-562, page 18, as sustained by the Appropriations Conference Committee. No FY97 funding requested.

P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 15
----------------------------------	----------------

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

8. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		0.300	-		0.100
FY96	-		0.000	-		0.000
FY97	-		0.398	-		0.000

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 16	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. AWDS P3I PRIME MISSION EQ TECH DATA ENGR/PROG MGT	A				VAR	N/A	(14,858)						
							12,123						
							881						
							1,854						
2. SDHS UPGRADE	A				VAR	N/A	2,828						
3. TOFS PRIME MISSION EQ TECHNICAL DATA ENG/PROGRAM MGT	A										VAR	N/A	(4,965)
													4,002
													480
													483
4. AFCCC-R	A							VAR	N/A	7,054	VAR	N/A	6,485
HYPERCHANNEL REPLACEMENT PRIME MISSION EQ TECHNICAL DATA ENG/PROG MGT	A										VAR	N/A	(2,494)
													1,868
													312
													314

	P-1 SHOPP LIST ITEM NO. 43	PAGE NO. 17	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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. AWDS P31 PRIME MISSION EQUIPMENT FY95	GTE/CONTEL WESTLAKE VILLAGE, CA	OPT/FFP ¹	AFMC/ESC	SEP 95	SEP 96	VAR	N/A ²			
2. SDHS UPGRADE FY95	HUGHES CORP AURORA, CO	OPT/CPFF ³	HQ AWS	JAN 95	MAR 97	VAR	N/A ⁴			
3. TOFS PRIME MISSION EQUIPMENT FY97	UNKNOWN	C/CPFF	AFMC/ESC	JAN 97	APR 97	VAR	N/A ⁴	NO	YES	MAY 96
4. AFCCC-R FY96	HUGHES CORP	OPT/FPIF ⁵	AFMC/ESC	JUN 96	SEP 96	VAR	N/A ⁴	YES	NO	
FY97	HUGHES CORP OMAHA, NE	OPT/FPIF ⁵	AFMC/ESC	OCT 96	JAN 97	VAR	N/A ⁴	YES	NO	

REMARKS

1. OPTION TO FY92 SOLE SOURCE CONTRACT TO GTE/CONTEL.
2. THE NUMBER OF IMPROVEMENTS PER SYSTEM VARY DEPENDING ON BASIC SYSTEM CONFIGURATION AND MISSION NEED.
3. OPTION TO FY94 COMPETITIVE CONTRACT AWARDED TO HUGHES CORPORATION.
4. UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
5. OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
6. UNIT COSTS VARY BECAUSE OF MULTIPLE TYPES OF EQUIPMENT BEING PROCURED.
7. OPTION TO FY 92 TO DEPT OF COMMERCE BASIC CONTRACT WITH AAI CORP, HUNT VALLEY, MD.
8. NUMBER OF SYSTEMS BEING PROCURED.

P-1 SHOPP LIST
ITEM NO.

43

PAGE NO.

19

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
5. HYPERCHANNEL REPLACEMENT FY97	UNKNOWN	C/CPFF	HQ AWS	DEC 96	MAR 97	VAR	N/A ⁴	NO	YES	JUL 96
WIPSE FY95	UNISYS MCLEAN, VA	C/FP	HQ AWS	DEC 94	FEB 95	VAR	N/A ⁶			
7. ASOS FY95	DOC/AAI CORP HUNT VALLEY, MD	OPT/MIPR ⁷	HQ AWS	DEC 95	JUL 96	15 ⁸	N/A ⁶			

D. REMARKS

1. OPTION TO FY92 SOLE SOURCE CONTRACT TO GTE/CONTEL.
2. THE NUMBER OF IMPROVEMENTS PER SYSTEM VARY DEPENDING ON BASIC SYSTEM CONFIGURATION AND MISSION NEED.
3. OPTION TO FY94 COMPETITIVE CONTRACT AWARDED TO HUGHES CORPORATION.
4. UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
5. OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
6. UNIT COSTS VARY BECAUSE OF MULTIPLE TYPES OF EQUIPMENT BEING PROCURED.
7. OPTION TO FY 92 TO DEPT OF COMMERCE BASIC CONTRACT WITH AAI CORP, HUNT VALLEY, MD.
8. NUMBER OF SYSTEMS BEING PROCURED.

P-1 SHOPP LIST
ITEM NO.

43

PAGE NO.

20

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE STRATEGIC COMMAND AND CONTROL				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	7.509	57.180	23.382	26.446	15.394	24.227	25.785

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/communications upgrades to systems supporting the National Military Command System (NMCS), and US Strategic Command's (USSTRATCOM) ground mobile force management/execution command and control system, procures computer systems essential for the B-2 Weapon System to maintain mission ready status, and replaces/upgrades computer and communications equipment for the B-1B Technical Support Center. The increase in funding from FY95 to FY96 was due to Department of Defense (DoD) action that deferred procurement of B-2 ground support equipment from FY95 to FY96.

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. The FY95 TRICOMS funds replaced outdated workstation computers. FY96 funding provides further upgrades to TRICOMS servers, workstations, processors, printers and plotting equipment. FY97 funds will procure additional required servers, storage devices and associated support equipment.

2. **NATIONAL MILITARY COMMAND SYSTEM (NMCS) SUPPORT:** This program provides support for critical communications and crisis management systems for the NMCS. FY95 funding supported the NMCC's (National Military Command Center) Crisis Management ADP System (CMAS) which provides key decision-makers, e.g. the Secretary of Defense and the Chairman of the Joint Chiefs of Staff, with time-sensitive, integrated operations and intelligence. FY95 funding permitted CMAS to reach its initial operating capability. No FY97 funding is requested.

3. **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. **MULTI-MEDIA NETWORK SYSTEM:** Prior year funding procured hardware upgrades to the existing system which dates to the inception of the B-2 program. FY96 funding procures a network control center and associated communications system for a network hub at Whiteman AFB, MO. Three video teleconferencing systems will be purchased to facilitate weapon system management with Oklahoma City Air Logistics Center (ALC), Sacramento ALC and San Antonio ALC. No FY97 funding is requested.

P-1 SHOPP LIST
ITEM NO.
44

PAGE NO.
21

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

STRATEGIC COMMAND AND CONTROL

		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)								

b. **IMPROVED TECH DATA SYSTEM (ITDS):** ITDS is a system which receives, distributes, and manages B-2 technical orders at the B-2 beddown location (Whiteman AFB, MO), Wright-Patterson AFB, OH, Oklahoma ALC, and Air Combat Command (Langley AFB, VA). ITDS supports maintenance, administrative, and support personnel who require access to B-2 technical orders in performance of their job. The system displays technical data primarily through electronic means. FY96 funding procures computer hardware, a computerized logistics system converter, program documentation, program support, and installation of local area network connectivity at Oklahoma City ALC. FY97 funding will procure additional hardware and program documentation and provides for continued program support.

c. **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, San Antonio ALC and Northrup Grumman Corp in CA. FY96/97 funds will provide upgrades to these locations through purchase of commercial off-the-shelf (COTS) hardware (workstations, scanners, plotters, printers) and associated software.

d. **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 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; it assists engineers in analyzing and designing operational flight programs. FY96/97 funds will procure 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.

e. **ONBOARD TEST SYSTEM (OBTS) SWITCHING EQUIPMENT:** Funding provides critical electronic integration between the onboard test system (OBTS) ground processor (OGP) and the integrated technical data system (ITDS) local area network. OBTS will allow technicians computer access to vital fault data obtained during aircraft flights. FY96/97 funding procures computer and associated support equipment for the OBTS system.

4. **B-1B TECHNICAL SUPPORT CENTER (TSC):** The TSC, located at Tinker AFB, OK, consists of communications, computers, and associated equipment that provide a quick response engineering support capability for B-1B problem analysis and resolution. The TSC tracks composite damage and repair, fuel leak

P-1 SHOPP LIST
ITEM NO.
44

PAGE NO.
22

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE STRATEGIC COMMAND AND CONTROL				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

information, and engineering dispositions, and displays that information on a B-1B TSC workstation. In addition, the TSC provides a real-time communications link among the depot, Air Combat Command, B-1B operating bases, and contractors in support of repair/problem resolution. FY95 funds procured equipment upgrades, e.g., computers, processors, workstations, terminal printers, disk/tape drives, plotters, scanner, etc., required to ensure the B-1B remains in a combat-ready status. No FY97 funding requested.

5. **CINCSTRAT MOBILE ALTERNATE HEADQUARTERS (CMAH):** CMAH is a Joint Staff directed ground mobile force management and execution command and control (C2) system. It consists of Electromagnetic Pulse (EMP) protected platforms and communications systems, built on the Modular Building Block C2 suite standard configuration, and associated equipment. It provides an austere force management capability during SIOP trans/post-attack periods. The CMAH, mounted in a truck transportable configuration, supports USSTRATCOM's mobile force management C2 needs. Prior year funds procured hardware upgrades directed to satisfy the Joint Staff mission baseline requirements. FY95 funds procured hardware upgrades to satisfy the Joint Staff mission baseline requirements that will provide higher headquarters Remote Operating Equipment (ROE) integration into EMP shelters, low frequency/very low frequency receive capability, and open systems architectural upgrades. No FY97 funding requested.

P-1 SHOPP LIST
ITEM NO.
44

PAGE NO.
23

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		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	2,271	VAR	N/A	1,779	VAR	N/A	3,666
2. NMCS SUPPORT CRISIS MGT ADP SYS	A				VAR	N/A	2,033						
3. B-2 SUPPORT								VAR	N/A	(55,401)	VAR	N/A	(19,716)
a. MULTI-MEDIA NETWORK SYSTEM	A									1,594			
b. ITDS	A									41,123			10,006
c. EDS	A									3,321			1,690
d. WSSC	A									9,328			7,985
e. OBTS SWITCHING EQ	A									35			35
4. B-1B TECHNICAL SUPPORT CENTER	A				VAR	N/A	976						

	P-1 SHOPP LIST ITEM NO. 44	PAGE NO. 24	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	-----------------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

5. CINCSTRAT MOBILE ALTERNATE HQ	A				VAR	N/A	2,229						
TOTAL							7,509			57,180			23,382

	P-1 SHOPP LIST ITEM NO. 44	PAGE NO. 35	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	GENERAL DYNAMICS	OPTION 1	HQ STRATCOM	OCT 94	FEB 95	VAR	N/A 2			
FY96	GENERAL DYNAMICS	OPTION 1	HQ STRATCOM	DEC 95	MAR 96	VAR	N/A 2			
FY97	GENERAL DYNAMICS BELLEVUE, NE	OPTION 1	HQ STRATCOM	OCT 96	FEB 97	VAR	N/A 2	YES	NO	
2. NATIONAL MILITARY CMD SYS SPT										
CRISIS MGT ADP SYSTEM (CMAS)										
FY95	WACC 3 MULTIPLE	MIPR 4	11SUW	JAN 95 4	MAR 95 4	VAR	N/A 2			
3. B-2 SUPPORT										
A. MULTI-MEDIA NETWORK SYSTEM										
FY96	NORTHROP B-2 DIV SACRAMENTO, CA	OPTION 5	AFMC/ASC	FEB 96	JUL 96	VAR	N/A 6			
B. IMP TECHNICAL DATA SYS (ITDS)										
FY96	NORTHROP B-2 DIV	OPT/FPIF 7	AFMC/OC-ALC	AUG 96	DEC 96	VAR	N/A 2	YES	NO	
FY97	NORTHROP B-2 DIV SACRAMENTO, CA	OPT/FPIF 7	AFMC/OC-ALC	MAR 97	SEP 97	VAR	N/A 2	YES	NO	

D. REMARKS

BECAUSE OF SPACE LIMITATIONS, THE FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST
ITEM NO.

44

PAGE NO.

26

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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. ENGINEERING DATA SYSTEM (EDS)										
FY96	MULTIPLE	OPTIONS ⁸	AFMC/OC-ALC	APR 96	MAY 96	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	OPTIONS ⁸	AFMC/OC-ALC	JAN 97	APR 97	VAR	N/A ²	YES	NO	
D. WPN SYS SUPPORT CENTER (WSSC)										
FY96	MULTIPLE	OPTIONS ⁸	AFMC/OC-ALC	JUN 96	AUG 96	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	OPTIONS ⁸	AFMC/OC-ALC	MAR 97	JUL 97	VAR	N/A ²	YES	NO	
E. OBTS SWITCHING EQ										
FY96	UNKNOWN	C/FP	HQ ACC	APR 96	JUL 96	VAR	N/A ²	YES	NO	
FY97	UNKNOWN	OPTION/FP	HQ ACC	JAN 97	APR 97	VAR	N/A ²	YES	NO	
4. B-1B TECHNICAL SUPPORT CENTER										
FY95	MULTIPLE	OPTIONS ⁸	AFMC/OC-ALC	AUG 95	SEP 95	VAR	N/A ²			
5. CINCSTRAT MOBILE ALT HQ (CMAH)										
FY95	DEPT OF ENERGY SANDIA NATL LABS ALBUQUERQUE, NM	MIPR/FP	HQ STRATCOM	SEP 95	JAN 96	VAR	N/A ²			

D. REMARKS

BECAUSE OF SPACE LIMITATIONS, THE FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST
ITEM NO.

44

PAGE NO.

27

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				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

FOOTNOTES:

1. Option to July 89 competitive contract awarded to General Dynamics.
2. Varying unit costs due to multiple types of equipment being procured.
3. WACC: Washington Area Contracting Center.
4. Funds executed through the WACC using various existing government contracts. Above award/delivery dates represent the date of first award and delivery.
5. Option to FY83 competitive contract.
6. Unit costs vary because multiple types of equipment are procured for specific site configurations.
7. Option to FY93 sole source contract awarded Apr 93.
8. Options to numerous acquisitions off the GSA schedule. Award/delivery dates reflect date of first award and delivery.

D. REMARKS BECAUSE OF SPACE LIMITATIONS, THE FOOTNOTES APPEAR AT THE END OF THIS P-5A.		
P-1 SHOPP LIST ITEM NO. 44	PAGE NO. 28	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			CHEYENNE MOUNTAIN COMPLEX					
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)		14.920	8.607	3.083	.740	1.201	2.818	2.987

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. In FY89, Congress directed all of the CMC modernization efforts be consolidated into one program called Cheyenne Mountain Upgrade (CMU). It encompasses the modernization of the CMU program application software and purchase of commercial off-the-shelf hardware and software. The CMU program: (1) provides 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) 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 NORAD command center, alternate missile warning center, and alternate air 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):

INTERIM CONTRACTOR SUPPORT (ICS): FY95-97 funding provides Interim Contractor Support (ICS) for Granite Sentry hardware maintenance until user organic capability is in place in FY98.

2. AF SPACE COMMAND (AFSPC) COMMAND AND CONTROL: FY95 funds procured miscellaneous off-the-shelf computers in support of command and control activities. Examples of these requirements are a large screen display system, a computerized briefing system for data in the Space Command Center and a Cheyenne Mountain security net. No FY97 funding requested.

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 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) Management Subsystem (CMS), (4) Defense Information System Network (DISN) hardware support, (5) administrative communications support for Peterson East and Falcon AFB, and (6) command-unique communications equipment to support the Defense

	P-1 SHOPP LIST ITEM NO. 45	PAGE NO. 29	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE
CHEYENNE MOUNTAIN COMPLEX

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

Message System (DMS) architecture. FY95-97 funding procures communications equipment for downward-directed and command initiatives, procures communications consoles to support Land Mobile Radio (LMR) nets, and provides funding for DISN and other bulk-bandwidth initiatives. Additionally, FY96 funding will procure administrative telephone switch expansions at Falcon AFB and other AFSPC sites and provide funding for base infrastructure requirements at multiple AFSPC sites.

4. **CINC MOBILE ALTERNATE HEADQUARTERS (CMAH):** This program upgrades the US Commander-in-Chief Space Command/Commander-in-Chief NORAD (USCINCSpace/CINC NORAD) Mobile Alternate Headquarters system to meet critical mission requirements such as contingency backup to Cheyenne Mountain TW/AA systems. FY95 funding provides for replacement of the existing Communications Support Processor/Modular Architecture for the Exchange of Intelligence (CSP/MAXI) subsystem with an upgraded Automated Message Handling System to accommodate multi-level security and purchase of the initial portion of a multimedia communications shelter (MMCS), a second MILSTAR terminal, and an upgraded Nuclear Planning and Execution System (NPES II). No FY97 funding requested.

5. **CHEYENNE MOUNTAIN TRAINING SYSTEM (CMTS):** The CMTS is a full mission simulator that will provide 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. FY95 funds procured additional mission hardware needed to upgrade the simulation facility for the NORAD Command Center, Missile Warning Center, Air Defense Operations Center and Space Defense Operations Center (Space Control Center). Additionally, FY95 also procured equipment for the Cheyenne Mountain Integrated Test and Exercise (ITEX) capability for the Ballistic Missile Defense Wargaming Interface. FY96 funding will procure the final phase of space training hardware. No FY97 funding requested.

P-1 SHOPP LIST
ITEM NO.
45

PAGE NO.
30

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		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) INTERIM CONTRACTOR SPT (ICS)	A				VAR	N/A	(1,492)	VAR	N/A	(3,372)	VAR	N/A	(2,620)
							1,492			3,372			2,620
2. AFSPC COMMAND & CONTROL	A				VAR	N/A	181						
3. TW/AA COMM NETWORK & AFSPC TELECOMMUNICATIONS	A				VAR	N/A	569	VAR	N/A	2,667	VAR	N/A	463
4. CINC MOBILE ALTERNATE HQS (CMAH)	A				VAR	N/A	4,141						
5. CHEYENNE MTN TRAINING SYSTEM (CMTS)	A				VAR	N/A	8,537	VAR	N/A	2,568			
TOTAL							14,920			8,607			3,083

	P-1 SHOPP LIST ITEM NO. 45	PAGE NO. 31	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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 (ICS) - NO ENTRY										
AFSPC COMMAND & CONTROL FY95	MULTIPLE ¹	C/FP	HQ AFSPC	FEB 95 ²	APR 95 ²	VAR	N/A ³			
3. TW/AA COMM NETWORK AND AFSPC TELECOMMUNICATIONS										
FY95	MULTIPLE ¹	OPT/FP ⁴	HQ AFSPC	MAR 95 ²	JUL 95 ²	VAR	N/A ³			
FY96	MULTIPLE ¹	OPT/FP ⁴	HQ AFSPC	FEB 96 ²	JUL 96 ²	VAR	N/A ³			
FY97	MULTIPLE ¹	OPT/FP ⁴	HQ AFSPC	MAR 97 ²	AUG 97 ²	VAR	N/A ³	YES	NO	
4. CINC MOBILE ALTERNATE HQS (CMAH)										
FY95	DOE, SANDIA NATL LABS	MIPRO/FP ⁵	AFMC/SM-ALC	JAN 95	JUN 95	VAR	N/A ⁶			
FY95	ALBUQUERQUE, NM									
	MULTIPLE ¹	C/FP	AFMC/SM-ALC	FEB 95 ²	JUN 95 ²	VAR	N/A ⁶			
5. CHEYENNE MTN TRAINING SYS (CMTS)										
FY95	LORAL SYSTEMS	OPTION ⁷	HQ AFSPC	DEC 94	MAY 95	VAR	N/A ⁶			
FY96	LORAL SYSTEMS	OPTION ⁷	HQ AFSPC	DEC 95	MAY 96	VAR	N/A ⁶			
	COLORADO SP, CO									

D. REMARKS

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

P-1 SHOPP LIST
ITEM NO.

45

PAGE NO.

32

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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

FOOTNOTES:

1. Contractor Examples: Inel Corp, Idaho Falls, ID, and Martin Marietta Corp, Denver, CO.
2. Award and delivery dates represent date of first contract award and first delivery.
3. Different types of equipment being procured result in varying unit costs.
4. Options to various Defense Electronics Commercial Communications Office (DECCO) competitive fixed price contracts awarded in 1989.
5. Option to Department of Energy/Sandia National Labs competitive fixed price contract with Lockheed-Martin, Albuquerque, NM, awarded Dec 91.
6. Different configurations/types of equipment result in varying unit costs.
7. Option to prior year firm fixed price contract at Electronic Systems Center, Hanscom AFB MA, with Loral Systems, Colorado Springs, CO.

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.		
P-1 SHOPP LIST ITEM NO. 45	PAGE NO. 33	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)		42.345	31.857	17.791	25.965	22.626	22.215	22.740

The FY97 request 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. Over 3000 personnel slots have been deleted based on savings produced by an Air Force Materiel Command (AFMC) restructure and modernizing some of its logistics programs with the Productivity Enhancement program a major contributor. Implementation of the optical disk technology with the Automated Records Management System (ARMS) program reduced personnel requirements by 101 authorizations and is providing the capability to efficiently and economically meet mission requirements through the next decade. Consolidation and standardization efforts through Corporate Information Management (CIM) initiatives will reduce both personnel requirements and support costs. Many programs are continued implementations of efforts begun in previous years. 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. New equipment will support software engineering, development, and testing of operational weapon system software and complete the upgrade and integration of various systems. Funds will support a standard system infrastructure, allowing major commands to purchase computer equipment capabilities and quality networking.

11th SUPPORT WING (11SPTW)

1. **AIR STAFF DEPARTMENTAL SYSTEMS:** No FY97 funding is requested.
2. **HEADQUARTERS MAINFRAME SYSTEMS SUPPORT:** No FY97 funding is requested.
3. **NMCC OPERATIONS BRIEFING STAFF RE-ENGINEERING PROJECT:** No FY97 funding is requested.
4. **DEFENSE STANDARDIZATION PROGRAM:** No FY97 funding is requested.
5. **GULF WAR ILLNESS PROJECT:** No FY97 funding is requested.

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 34	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

AIR COMBAT COMMAND (ACC)

- 6. **BASE OPERATIONS:** FY97 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 air crew 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.
- 7. **COMBAT AIR:** No FY97 funding is requested.
- 8. **JOB ORDER COST ACCOUNTING SYSTEM (JOCAS):** No FY97 funding is requested.
- 9. **ACC COMMAND & CONTROL INFORMATION PROCESSING SYSTEM (C2IPS):** No FY97 funding is requested.

AIR EDUCATION AND TRAINING COMMAND (AETC)

- 10. **ADVANCED TRAINING SYSTEM (ATS):** The 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 systems, inter- and intra-building local area networks, printers, scanners, and associated peripheral equipment to equip four technical training centers and the headquarters. AETC incurred a personnel reduction of 323 positions to fund the implementation of ATS. The reduction started in FY93 (60 positions) using a phased approach. Lack of funding will severely reduce the technical abilities of ATS and impair AETC's ability to provide quality graduates in sufficient numbers to support Air Force requirements. Prior year funds provided 1000 desktop computers and associated equipment toward an Initial Operational Capability (IOC) at Keester AFB, MS. FY97 funds will provide computer support for IOC at Sheppard AFB, TX 882nd medical training wing as well as providing an initial increment of desktop computers and associated equipment for technical wings at Sheppard, Lackland and Goodfellow AFBs.

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 35	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

11. **AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) COMPUTER INFRASTRUCTURE:** No FY97 funding is requested.

12. **AWACS MODELING AND SIMULATION TRAINING SYSTEM:** No FY97 funding is requested.

13. **SUPPORT FOR TRAINING TECHNOLOGY APPLICATIONS:** 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 continue the acquisition of interactive 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 funds will continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality.

AIR FORCE ACADEMY

14. **AIR FORCE ACADEMY (AFA) COMPUTER SUPPORT:** FY97 funds continue purchase and phased implementation of the USAFA local area network and provide for the Cadet Administrative Management Information System (CAMIS). This program contains specialized software that provides accurate, timely and relevant information in support of admissions, active cadets, graduates, the preparatory school and various DoD agencies that associate with the Academy. In addition, FY97 funds also provide communications/computer support to fixed and mobile microcomputers, advanced workstations, peripherals, network applications, and software essential to Academy's academic education and support missions.

AIR FORCE MATERIEL COMMAND (AFMC)

15. **BASE OPERATIONS:** No FY97 funding is requested

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 36	
--	---	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

16. **COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS):** CEMS provides essential information in support of Air Force engine management worldwide. The CEMS central data base is hosted on Amdahl computers located at the Oklahoma City Air Logistics Center, OK. CEMS, Increment IV, provides engine trending and diagnostics (ETD) at base level and runs on mini/micro computers. It also provides the ability to pass time-temperature-cycle data from aircraft engine monitoring systems into the Core Automated Maintenance System (CAMS). CEMS IV base activations are growing over time as newer aircraft with engine monitoring systems are fielded or modified, e.g., KC-135R. Approximately three quarters of CEMS users (245 of 325) have direct access to the central data base. Equipment is needed to support CEMS in order to provide access for more users and interface to other systems (especially to CAMS). FY97 funds provide for continued CEMS IV base activations (8 bases), miscellaneous equipment in support of CEMS direct line reporting and interfaces to CAMS, e.g., modems, communication software, serial cards for microcomputers, cables and similar equipment.

17. **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 four different domains or tasks: (1) Software Technology Support Center (STSC); (2) Extendable Integration Support Environment (EISE); (3) Readiness, which includes the Automated Software Control Center (SCC) and the Automated Computer Program Identification Number (ACPIN); and (4) the Wright Research and Development Center (WRDC) which provides research and development for ESIP. Funds are required to procure equipment for software tool evaluation of hard, real-time modules and components. This new equipment will support software engineering, development, and test of operational weapon system software. It will complete the upgrade and integration of the ACPIN and SCC systems that automate the identification, stocking, reproduction, and issuance of weapon system software, engineering data and products. Standard configuration off-the-shelf hardware does not fulfill the requirements dictated by these functions. FY97 funds will continue acquisition of a wide range of special configurations of mini/micro computers and commercial/peculiar hardware devices essential for weapon system support.

18. **F-117A COMPUTER SUPPORT:** FY97 funding will continue 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.

19. **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 cancelled, leaving only the LOGDIS project. There are

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 37	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mill)								

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 funding will upgrade existing hardware and replaces office automation software with another product capable of running on both existing hardware and upgraded hardware.

20. **PRODUCTIVITY ENHANCEMENT:** No FY97 funding is requested.

21. **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. FY97 funding will purchase terminals for the classified systems users and additional direct access storage devices for classified and unclassified systems.

22. **TARGET MATERIALS PRODUCTION PROGRAM:** FY97 funds acquire 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 air crew mission planning and execution. Without this equipment, air crews worldwide will lack the necessary intelligence data for mission planning thus subjecting aircrews and aircraft to increased risk and decreased effectiveness.

23. **DIGITAL IMAGE PROCESSING:** No FY97 funding is requested.

AIR FORCE PERSONNEL CENTER (AFPC)

24. **AUTOMATED RECORDS MANAGEMENT SYSTEM (ARMS):** No FY97 funding is requested.

25. **PERSONNEL DATA SYSTEM 90 (PDS-90):** This project acquires hardware and associated software to replace the inadequate and obsolete equipment which provides worldwide personnel management support of active Air Force, Air National Guard, Air Force Reserve, and civilian personnel at the

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 38	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

Air Staff, HQ AFPC, and the Major Command/Field Operating Agencies. PDS-90 serves all aspects of the personnel "life cycle" including personnel planning, programming, hiring, utilization, separation, and retirement. Replacement of current equipment is necessary to reduce hardware maintenance costs, achieve productivity enhancement, and ensure continued responsiveness to functional user requirements. FY97 funds will add additional archival capability and replace communications front end processors.

26. **REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT:** See CIM Initiatives Section below.

AIR FORCE NEWS CENTER (AFNEWS)

27. **AIR FORCE NEWS CENTER (AFNEWS) COMPUTER SYSTEM:** No FY97 funding is requested.

AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)

28. **AFOSI GLOBAL COMPUTER NETWORK (AGCN):** Continues the AFOSI phased program to meet its automation needs to significantly increase the timely exchange of critical information 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 Air Force field commanders. FY97 funds will purchase a global network monitoring system and replacements for aging multi-user systems at the larger AFOSI detachments.

AIR MOBILITY COMMAND (AMC)

29. **REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT:** See CIM Initiatives Section below.

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 39	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

AIR NATIONAL GUARD (ANG)

30. **JOINT RECRUITING INFORMATION SUPPORT SYSTEM:** See CIM Initiatives Section below.

UNITED STATES AIR FORCES IN EUROPE (USAFE)

31. **INTELLIGENCE AUTOMATIC DATA PROCESSING:** Continues a USAFE initiative to establish an interface between the theater-level intelligence analysis and production centers and tactical units. This allows USAFE units to access intelligence data throughout the European theater to support execution of combat/peacekeeping operations. FY97 funds will continue to purchase the workstations and peripheral equipment needed to fulfill this requirement.

32. **WARRIOR PREPARATION CENTER (WPC):** The WPC provides senior battle commanders and their staff the opportunity to train for the operational level of war using interactive computer simulations that replicate, as closely as possible, the real-world environment. This training opportunity has also been extended to our NATO allies. The robust exercise schedule consists of six to ten exercises per year, including some worldwide exercises involving up to 1,500 personnel. FY97 funds will continue acquisition of satellite communications, mainframe computer systems, peripheral equipment, additional simulation workstations and terminals. This equipment will allow additional exercises, reduce resource contention, optimize existing performance, and enhance overall exercise execution. The main areas of enhancement will include rapid updating of information to lower-echelon controllers, simulation play through the combination of graphics display and screen order input, and time dated unit status. Failure to obtain the equipment needed to enhance computer-assisted exercise scenarios will impact the Air Force's ability to follow the Air Force Chief of Staff and the USAFE Commander in Chief's direction to reduce field maneuver damage, lower flying sortie rates, and reduce training costs while increasing the war fighting capability of air, land, and sea forces.

AIR FORCE SPACE COMMAND (AFSPC)

33. **REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT:** See CIM Initiatives Section below.

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 40	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

US STRATEGIC COMMAND (USSTRATCOM)

- 34. **HQ INFORMATION & TRAINING SYSTEM:** No FY97 funding is requested.

AIR FORCE OPERATIONAL TEST & EVALUATION CENTER (AFOTEC)

- 35. **OFFICE AUTOMATION:** No FY97 funding is requested.

CORPORATE INFORMATION MANAGEMENT (CIM) INITIATIVES

REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: This project provides resources required to support the Regionalization of the Air Force's civilian personnel operations. The Nov 1993 the Secretary of Defense directed the Services and DoD agencies 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 civilian personnel employees through the application of servicing ratios. The Air Force must deliver regionalized services on time since manpower reductions have been levied. In conjunction with the development and deployment of a modern standard data system, the regionalization of civilian personnel services will provide streamlined civilian personnel delivery afforded by more efficient and effective organizational structures and business process improvements. The equipment/systems being purchased will 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 administered by Air Force Space Command and located at the Air Force Academy in Colorado Springs, CO. It services approximately 8,000 employees at seven locations. The other center is administered by Air Mobility Command and located at Scott AFB, IL. It provides service to approximately 13,000 employees at 11 locations. FY95 funds provided for the computer hardware needed to standup the two centers and also provided initial start-up costs for the main Air Force center at Randolph AFB, TX. The proof-of-concept centers will phase down by the end of FY97 and all operations will be phased to the Air Force Personnel

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 41	
--	----------------------------------	----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

Center (AFPC) at Randolph AFB. The AFPC center will provide support to all Air Force civilians by FY99. FY96 buys equipment to continue standing up the AFPC center. FY97 funds will continue support for the AFPC center and procure computer hardware to include microcomputers, servers, printers, storage devices, networking support, and associated peripheral devices, as well as providing equipment for Civilian Personnel Offices at base level. The equipment will support electronic records management systems, several functional process improvements, and electronic management of official personnel folders. It is estimated that streamlining, reengineering, and automation will save approximately \$72M a year.

Note: Additional details on Civilian Regionalization can be found in the Operations & Maintenance, Defense-Wide (O&M,D-W) budget submission.

JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS): A comprehensive CIM review of military recruiting functional requirements and existing processes determined that the most significant improvements in these processes require standardization of data and the application of up-to-date information technology at recruiting offices. The development and implementation of a comprehensive standard recruiting and entrance processing system (JRISS), in conjunction with standard personnel data elements, is critical in the Personnel and Readiness migration strategy to move to one-time data entry of core military personnel data. Standardizing automation and data at these initial entry stages will yield major benefits throughout the entire military personnel life cycle. It will also eliminate duplicative system development and modernization efforts. To realize these benefits requires timely implementation of JRISS. The FY96 request provides funding for the application of a standard, modern database at recruiting offices. No FY97 funding is requested.

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
FY95	-	0.000	-	0.000
FY96	-	1.490	-	0.000
FY97	-	0.000	-	0.000

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 42	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1SPTW					VAR	N/A	(9,659)			(9,136)			
1. Air Staff Departmental Systems	A						4,533			5,682			
2. HQS Mainframe Systems Support	A						3,759			3,454			
3. NMCC Ops Brief Staff Reengineering							340						
4. Defense Standardization							300						
5. Gulf War Illness Project							727						
ACC					VAR	N/A	(1,133)	VAR	N/A	(373)	VAR	N/A	(264)
6. Base Operations	A						196			373			264
7. Combat Air	A						501						
8. Job Order Cost Accounting System							137						
9. ACC C2IPS	A						299						

P-1 SHOPP LIST
ITEM NO.
49

PAGE NO.
43

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE
MARCH 1996

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.

B. WEAPON MODEL/SERIES/ POPULAR NAME

C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

AUTOMATIC DATA PROCESSING EQUIPMENT

See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
AETC					VAR	N/A	(7,253)	VAR	N/A	(6,113)	VAR	N/A	(4,201)
10. ATS	A						1,487			3,763			2,801
11 AFIT Computer Infrastructure	A						593			529			
12. AWACS Modeling & Simulation Train Sys	A						3,353						
13. Spt for Training Technology Applications	A						1,820			1,821			1,400
USAFA													
14. AFA Computer Spt	A				VAR	N/A	1,484	VAR	N/A	1,798	VAR	N/A	1,318

P-1 SHOPP LIST ITEM NO.
49

PAGE NO.
44

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
AFMC					VAR	N/A	(12,443)	VAR	N/A	(5,010)	VAR	N/A	(3,511)
15. Base Operations	A						1,454						
16. CEMS	A						379			211			154
17. ESIP	A						2,793			1,777			1,645
18. F-117A Computer Spt	A						735			366			275
19. LOGDIS	A												401
20. Productivity Enh	A						5,722			1,264			
21. WSMIS	A						225			777			561
22. Target Materials Production Program	A						965			615			475
23. Digital Image Processing							170						
AFPC					VAR	N/A	(4,893)	VAR	N/A	(6,019)	VAR	N/A	(7,324)
24. ARMS	A						1,172						
25. PDS-90	A						1,521			655			644
26. Regionalization of Civ Pers Spt	A						2,200			5,364			6,680

P-1 SHOPP LIST
ITEM NO.
49

PAGE NO.
45

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
AFNEWS													
27. AFNEWS Comp Sys	A				VAR	N/A	51						
AFOSI													
28. AGCN	A							VAR	N/A	198	VAR	N/A	190
AMC													
29. Regionalization of Civ Pers Spt	A				VAR	N/A	3,181						
ANG													
30. JRISS	A							VAR	N/A	1,490			
USAFE													
31. Intel ADP	A				VAR	N/A	(929) 265	VAR	N/A	(984) 320	VAR	N/A	(983) 320
32. Warrior Prep Center	A						664			664			663
AFSPC													
33. Regionalization of Civ Pers Spt	A				VAR	N/A	1,319						

P-1 SHOPP LIST
ITEM NO.
49

PAGE NO.
46

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT				See Manufacturing Information on P-5A						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

USSTRATCOM													
34. Hq Info & Trng System	A							VAR	N/A	537			
AFOTEC													
35. Office Automation	A							VAR	N/A	199			
TOTAL							42,345			31,857			17,791

	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 17	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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. AIR STAFF DEPARTMENTAL SYS FY95 FY96	MULTIPLE MULTIPLE	OPT/FP 5 OPT/FP 5	11SPTW 11SPTW	NOV 94 MAY 96	JAN 95 JUL 96	VAR 6 VAR 6	N/A 6 N/A 6	YES	NO	
2. HQS MAINFRAME SYS SPT FY95 FY96	GRUMAN DATA SYS GRUMAN DATA SYS	OPT/FP 3 OPT/FP 3	11SPTW 11 SPTW	OCT 94 MAY 96	JAN 95 AUG 96	VAR 6 VAR 6	N/A 6 N/A 6	YES	NO	
3. NMCC OPS BRIEF STAFF RE-ENG FY95	MULTIPLE	C/FP	11SPTW	MAY - SEP 95	JUN - OCT 95	VAR 6	N/A 6			
4. DEFENSE STANDARDIZATION FY95	JIL INFO ARLINGTON, VA	SMALL BUS. SET ASIDE	11SPTW	APR 96	JUL 96	VAR 6	N/A 6	YES	NO	
5. GULF WAR ILLNESS PROJECT FY95	ZENITH CORP; PRC CORP; AMTECH WASHINGTON, DC	OPT/FP 5	11SPTW	APR 96	MAY 96	VAR 6	N/A 6	YES	NO	
D. REMARKS				OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication HSC: Human Systems Center ESC: Electronic Systems Center WPCC: Wright-Patterson Contracting Center WRAMC: Walter Reed Army Medical Center SMC: Space & Missile Systems Center						
1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSCRC 6 - Quantities and costs vary based on location and configuration.				P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 48	Exhibit P-5a Procurement History and Planning				

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

ACC 6. BASE OPERATIONS FY95 FY96 FY97 7. COMBAT AIR FY95 8. JOB ORDER COST ACCT SYSTEM FY95 9. ACC C2IPS FY95	MULTIPLE MULTIPLE MULTIPLE INFOTECH DEV INC WAKEFIELD, MA MULTIPLE CSC MORRISTOWN, NJ	OPT/FP ⁵ OPT/FP ⁵ OPT/FP ⁵ C/FP C/FP C/FP	HQ ACC HQ ACC HQ ACC AFMC/ESC HQ ACC HQ ACC	MAR 95 MAY 96 MAY 97 AUG 95 JAN 96 MAR 96	JUN 95 AUG 96 AUG 97 DEC 95 FEB 96 JUN 96	VAR ⁶ VAR ⁶ VAR ⁶ VAR ⁶ VAR ⁶ VAR 	N/A ⁶ N/A ⁶ N/A ⁶ N/A ⁶ N/A ⁶ N/A ⁶	YES YES YES YES YES YES	NO NO NO YES YES YES	
--	--	---	--	--	--	---	--	--	---	--

D. REMARKS 1 - Option to the respective FY82 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRC 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center	HSC: Human Systems Center ESC: Electronic Systems Center WPCC: Wright-Patterson Contracting Center WRAMC: Walter Reed Army Medical Center SMC: Space & Missile Systems Center
	P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 49	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

AETC										
10. ATS										
FY95	MULTIPLE	OPT/FP ⁵	HQ AETC	APR 95	JUL 95	VAR ⁶	N/A ⁶			
FY96	MULTIPLE	C/FP	HQ AETC	JAN 96	MAY 96	VAR ⁶	N/A ⁶			
FY97	UNKNOWN	C/FP	HQ AETC	NOV 96	APR 97	VAR ⁶	N/A ⁶	YES	NO	
11. AFIT COMPUTER INFRASTRUCTURE										
FY95	MULTIPLE	OPT/FP ⁵	HQ AETC	JAN 95	MAR 95	VAR ⁶	N/A ⁶			
FY96	UNKNOWN	C/FP	HQ AETC	APR 96	JUN 96	VAR ⁶	N/A ⁶	YES	NO	
12. AWACS MODELING/SIM TRAINING										
FY95	SWRI SAN ANTONIO, TX	C/FP	HQ AETC	SEP 95	AUG 96	VAR ⁶	N/A ⁶			
13. SUPPORT FOR TRNG TECH APL										
FY95	MULTIPLE	OPT/FP ⁵	HQ AETC	MAR 95	MAY 95	VAR ⁶	N/A ⁶			
FY96	MULTIPLE	C/FP	HQ AETC	JAN 96	MAR 96	VAR ⁶	N/A ⁶			
FY97	UNKNOWN	C/FP	HQ AETC	JAN 97	MAR 97	VAR ⁶	N/A ⁶	YES	NO	

D. REMARKS	1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts. 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRCR 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3906 CS: 3906 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center	HSC: Human Systems Center ESC: Electronic Systems Center WPCC: Wright-Patterson Contracting Center WRAMC: Walter Reed Army Medical Center SMC: Space & Missile Systems Center
-------------------	---	---	--	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996			
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 FRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
USAFA											
14. AFA COMPUTER SPT											
FY95	MULTIPLE	OPT/FP ⁵	USAFA	JAN 95	MAR 95	VAR ⁶	N/A ⁶				
FY96	MULTIPLE	C/FP	USAFA	DEC 95	JAN 96	VAR ⁶	N/A ⁶				
FY97	UNKNOWN	C/FP	USAFA	NOV 96	JAN 97	VAR ⁶	N/A ⁶	YES	NO		
AFMC											
15. BASE OPERATIONS											
FY95	LOGICON TECH SAN PEDRO, CA	C/FP	HQ AFMC	AUG 95	DEC 95	VAR ⁶	N/A ⁶				
	EDS HERNDON, VA	C/FP	AFMC/SSG	SEP 95	OCT 95	VAR ⁶	N/A ⁶				
16. CEMS											
FY95	ARMY/SAIC SAN DIEGO, CA	C/FP/MIPR	AFMC/SA-ALC	FEB 95	MAR 95	VAR ⁶	N/A ⁶				
FY96	ARMY/SAIC SAN DIEGO, CA	C/FP/MIPR	AFMC/SA-ALC	FEB 96	APR 96	VAR ⁶	N/A ⁶				
FY97	UNKNOWN	C/FP	AFMC/SA-ALC	NOV 96	MAR 97	VAR ⁶	N/A ⁶	YES	NO		
D. REMARKS											
1 - Option to the respective FY92 contracts.			2 - Option to the respective FY90 contracts.			3 - Option to the respective FY88 contracts.			4 - Option to the respective FY91 contracts.		
5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRC			6 - Quantities and costs vary based on location and configuration.			ASC: Aeronautical Systems Center			CSC: Communications Systems Center		
						DECCO: Defense Commercial Communication			OC-ALC: Oklahoma City Air Logistics Center		
						OO-ALC: Ogden Air Logistics Center			SA-ALC: San Antonio Air Logistics Center		
						SM-ALC: Sacramento Air Logistics Center			SSG: Standard Systems Group		
						MSG: Materiel Systems Group			WACC: Washington Area Contracting Center		
						3908 CS: 3908 Contracting Squadron			HSC: Human Systems Center		
						ESC: Electronic Systems Center			WPCC: Wright-Patterson Contracting Center		
						WRAMC: Walter Reed Army Medical Center			SMC: Space & Missile Systems Center		
				P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning					
				49	51						

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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. ESIP	FY95	LOCKHEED-SANDERS NASHUA, NH	C/FP	AFMC/SM-ALC	SEP 95	DEC 95	VAR ⁶	N/A ⁶		
	FY96	FILENET CORP SALT LAKE CITY, UT	OPT/FFP ⁵	AFMC/SM-ALC	JUN 96	JUL 96	VAR ⁶	N/A ⁶	YES	NO
	FY97	UNKNOWN	C/FP	AFMC/SM-ALC	DEC 96	MAR 97	VAR ⁶	N/A ⁶	YES	NO
18. F-117A COMPUTER SUPPORT	FY95	TOSHIBA AMERICA IRVINE, CA	C/FP	AFMC/SM-ALC	AUG 95	SEP 95	VAR ⁶	N/A ⁶		
	FY96	SAIC SACRAMENTO, CA	OPT/FFP ⁵	AFMC/SM-ALC	JUN 96	DEC 96	VAR ⁶	N/A ⁶	YES	NO
	FY97	UNKNOWN	C/FP	AFMC/SM-ALC	JUN 97	DEC 97	VAR ⁶	N/A ⁶	YES	NO
19. LOGDIS	FY97	BATTELLE COLUMBUS, OH	OPT/DIQ ⁵	AFMC/MSG	DEC 96	MAR 97	VAR ⁶	N/A ⁶	YES	NO

D. REMARKS 1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSCRC 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3906 CS: 3906 Contracting Squadron OO-ALC: Ogdan Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center HSC: Human Systems Center ESC: Electronic Systems Center WPCC: Wright-Patterson Contracting Center WRAMC: Walter Reed Army Medical Center SMC: Space & Missile Systems Center
---	---	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	-------------------------------

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

20. PRODUCTIVITY ENHANCEMENT										
FY95	SAT & T TECH GREENSBORO, NC	C/FP	AFMC/WPCC	SEP 95	DEC 95	VAR ⁶	N/A ⁶			
FY96	BATTELLE COLUMBUS, OH	OPT/IDIQ ⁵	AFMC/MSG	APR 96	JUL 96	VAR ⁶	N/A ⁶	YES	NO	
21. WSMIS										
FY95	HSF INC MCLEAN, VA	C/FP/IDIQ	AFMC/ASC	OCT 95	DEC 95	VAR ⁶	N/A ⁶			
FY96	SYNERGY WASHINGTON DC	OPT/FP ⁵	AFMC/ASC	JUN 96	AUG 96	VAR ⁶	N/A ⁶	YES	NO	
FY97	SYNERGY WASHINGTON DC	OPT/FP ⁵	AFMC/ASC	NOV 96	FEB 97	VAR ⁶	N/A ⁶	YES	NO	
22. TARGET MATERIALS PROD PROG										
FY95	GEO DYNAMICS ALEX, VA	C/IDIQ	AFMC/OO-ALC	MAY 95	AUG 95	VAR ⁶	N/A ⁶			
FY96	GTE WEST LAKE, CA	C/FP	AFMC/OO-ALC	NOV 95	APR 96	VAR ⁶	N/A ⁶			
FY97	UNKNOWN	C/FP	AFMC/OO-ALC	NOV 96	APR 97	VAR ⁶	N/A ⁶	YES	NO	

D. REMARKS	1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts. 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRCR 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center	HSC: Human Systems Center ESC: Electronic Systems Center WPCC: Wright-Patterson Contracting Center WRAMC: Walter Reed Army Medical Center SMC: Space & Missile Systems Center
-------------------	---	---	--	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

23. DIGITAL IMAGE PROCESSING	FY95	MULTIPLE	C/FP	AFMC/SMC	NOV 95	JAN 96	VAR ⁶	N/A ⁶		
AFPC										
24. ARMS	FY95	CENTEL RESTON, VA	OPT/FP ¹	HQ AFPC	NOV 94	JAN 95	VAR ⁶	N/A ⁶		
25. PDS-90	FY95	MULTIPLE	OPT/FP ⁵	HQ AFPC	NOV 94	APR 95	VAR ⁶	N/A ⁶		
	FY96	MULTIPLE	OPT/FP ⁵	HQ AFPC	NOV 95	APR 96	VAR ⁶	N/A ⁶		
	FY97	MULTIPLE	OPT/FP ⁵	HQ AFPC	NOV 96	APR 97	VAR ⁶	N/A ⁶	YES	NO
26. REGIONALIZATION OF CIV PERS SPT	FY95	MULTIPLE	OPT/FP ⁵	HQ AFPC	SEP 95	DEC 95	VAR ⁶	N/A ⁶		
	FY96	MULTIPLE	OPT/FP ⁵	HQ AFPC	NOV 95	JAN 96	VAR ⁶	N/A ⁶		
	FY97	MULTIPLE	OPT/FP ⁵	HQ AFPC	NOV 96	JAN 97	VAR ⁶	N/A ⁶	YES	NO

D. REMARKS

1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSCRC 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center
--	---	--

HSC: Human Systems Center
 ESC: Electronic Systems Center
 WPCC: Wright-Patterson Contracting Center
 WRAMC: Walter Reed Army Medical Center
 SMC: Space & Missile Systems Center

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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
AFNEWS 27. AFNEWS COMPUTER SYSTEM FY95	GTS CHANTILLY, VA	OPT/FP ¹	AFMC/SA-ALC	JAN 95	APR 95	VAR ⁶	N/A ⁶			
AFOSI 28. AGCN FY96	TCC BOSTON, MA and COMTECH ROCKVILLE, MD	OPT/FP ⁵	HQ AFOSI	MAR 96 - SEP 96	MAY 96 - NOV 96	VAR ⁶	N/A ⁶			
FY97	TCC BOSTON, MA	OPT/FP ⁵	HQ AFOSI	DEC 96	FEB 97	VAR ⁶	N/A ⁶	YES	NO	
AMC 29. REGIONALIZATION OF CIV PERS SPT FY95	MULTIPLE	OPT/FP ⁵	HQ AMC	MAY 95	AUG 95	VAR ⁶	N/A ⁶			
ANG 30. JRISS FY96	UNKNOWN	C/FP	HQ ANG	JUN 96	OCT 96	VAR ⁶	N/A ⁶	YES	NO	
D. REMARKS										
1 - Option to the respective FY82 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRC 6 - Quantities and costs vary based on location and configuration.			ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication			OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center				
				P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning				
				49	55					

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

USAFE										
31. INTEL ADP										
FY95	MULTIPLE	C/FP	HQ USAFE	OCT 95	JAN 96	VAR ⁶	N/A ⁶			
FY96	MULTIPLE	C/FP	HQ USAFE	NOV 95	MAR 96	VAR ⁶	N/A ⁶			
FY97	UNKNOWN	C/FP	HQ USAFE	NOV 96	MAR 97	VAR ⁶	N/A ⁶	YES	NO	
32. WARRIOR PREP CENTER										
FY95	DIA (GTE)	OPT/MIPR ¹	HQ USAFE	MAR 95	AUG 95	VAR ⁶	N/A ⁶			
FY96	DIA (GTE)	OPT/MIPR ¹	HQ USAFE	MAR 96	AUG 96	VAR ⁶	N/A ⁶			
FY97	DIA (GTE) W.LAKE VILLAGE, CA	OPT/MIPR ¹	HQ USAFE	FEB 97	MAY 97	VAR ⁶	N/A ⁶	YES	NO	
AFSPC										
33. REGIONALIZATION OF CIV PERS SPT										
FY95	MULTIPLE	OPT/FP ⁵	HQ AFSPC	JUL 95	NOV 95	VAR ⁶	N/A ⁶			
USSTRATCOM										
HQ INFO & TRNG SYSTEM										
FY96	MULTIPLE	C/FP	HQ STRATCOM	JUN 96	SEP 96	VAR ⁶	N/A ⁶	YES	NO	

D. REMARKS

1 - Option to the respective FY92 contracts. 2 - Option to the respective FY90 contracts. 3 - Option to the respective FY88 contracts. 4 - Option to the respective FY91 contracts 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRC 6 - Quantities and costs vary based on location and configuration.	ASC: Aeronautical Systems Center CSC: Communications Systems Center DECCO: Defense Commercial Communication	OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron OO-ALC: Ogden Air Logistics Center SA-ALC: San Antonio Air Logistics Center SM-ALC: Sacramento Air Logistics Center SSG: Standard Systems Group MSG: Materiel Systems Group WACC: Washington Area Contracting Center
---	---	--

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

AFOTEC 35. OFFICE AUTOMATION FY96	MULTIPLE	C/FP	HQ AFOTEC	MAY 96	AUG 96	VAR ⁶	N/A ⁶	YES	NO	
---	----------	------	-----------	--------	--------	------------------	------------------	-----	----	--

D. REMARKS

- 1 - Option to the respective FY92 contracts.
- 2 - Option to the respective FY90 contracts.
- 3 - Option to the respective FY88 contracts.
- 4 - Option to the respective FY91 contracts.
- 5 - Options to multiple standard contracts including DT IV, ULANA, Super-Mini, SMSRC
- 6 - Quantities and costs vary based on location and configuration.

ASC: Aeronautical Systems Center
 CSC: Communications Systems Center
 DECCO: Defense Commercial Communication

OC-ALC: Oklahoma City Air Logistics Center 3908 CS: 3908 Contracting Squadron
 OO-ALC: Ogden Air Logistics Center HSC: Human Systems Center
 SA-ALC: San Antonio Air Logistics Center ESC: Electronic Systems Center
 SM-ALC: Sacramento Air Logistics Center WPCC: Wright-Patterson Contracting Center
 SSG: Standard Systems Group WRAMC: Walter Reed Army Medical Center
 MSG: Materiel Systems Group SMC: Space & Missile Systems Center
 WACC: Washington Area Contracting Center

P-1 SHOPP LIST ITEM NO. 49	PAGE NO. 57	Exhibit P-5a Procurement History and Planning
----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)		18.419	5.137	10.165	7.376	6.034	6.052	6.059

The focus of the WWMCCS/GCCS program is to provide common Air Force infrastructure necessary to pass Air Force command and control (C2) data between commands, their components, and the joint C2 system: WWMCCS/Global Command and Control System (WWMCCS/GCCS). These efforts support a more flexible open-systems C2 architecture necessary to move away from the outmoded WWMCCS mainframe approach. It provides Automated Data Processing (ADP) equipment for two command and control (C2) programs within the Air Force. The first program, the Air Force Command and Control Network (AFC2N) provides the hardware and communications backbone, with extensive use of commercial off-the-shelf (COTS) technology that adheres to the AFC4 (Air Force command, control, communications and computer) building codes and standards. The second program, Air Force Global Command and Control System extends GCCS capabilities to required Air Force sites.

1. AIR FORCE COMMAND & CONTROL NETWORK (AFC2N): AFC2N provides local area networks (LANs) required to upgrade the Air Force command and control (C2) infrastructure by providing a common open system architecture network environment compatible with joint war planning and deployment software. The communications infrastructure of the Major Command (MAJCOM) C2 sites will be modernized by installing network bridges, gateways, digital service units, communications servers, hubs, repeaters, cabling/connectors, crypto gear, routers, modems, enhanced power supplies, fiber optic transceivers, ethernet management modules, and flash memory cards. FY95 funds provided MAJCOM upgrades, C2 upgrades to remote sites and throughput upgrades for multiple Air Force bases: Hq Air Combat Command (12), Hq Air Force Materiel Command (7), Hq Pacific Air Forces (4), Hq US Space Command (6), Hq US Transportation Command (4), Hq US Air Forces in Europe (5), and Hq US Special Operations Command (1). FY96 funds upgrade command and control remote sites for Hq US Special Operations Command (7), Hq US Transportation Command (9), Hq US Space Command (5), Hq Air Force Materiel Command (6) and Hq Pacific Air Forces (10). FY97 funds will upgrade command and control remote sites for Hq Air Mobility Command (8), Hq Air Force Materiel Command (8), Hq Air Combat Command (12), Hq US Air Forces in Europe (10), Hq US Space Command (10), Hq US Central Command (6), and Hq Air Education and Training Command (6), and will provide throughput upgrades to satisfy GCCS data transfer requirements.

2. GLOBAL COMMAND AND CONTROL SYSTEM (GCCS): This funding provides servers, workstations, and associated peripherals to extend GCCS processing capability to 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 command and control communications and computer systems to modernize logistically unsupportable MAJCOM command and control systems to capitalize on AFC2N and GCCS improvements. FY95 funds provided hardware for 28 remote sites (Hq Pacific Air Forces (8), Hq US Air Forces in Europe (6), Hq Air Combat Command (3), Hq Air Mobility Command (2), and other (9)) required to meet Air Force GCCS initial operational capability (IOC). FY96 funds provide communications and computer systems at MAJCOM headquarters and subordinate units. FY97 funds will continue communications and computer upgrades for Hq Air Mobility Command, Hq Air Force Materiel Command, Hq Air Combat Command, Hq US Air Forces in Europe, Hq US Space Command, Hq US Central Command, Hq Air Education and Training Command, and Hq Pacific Air Forces.

	P-1 SHOPP LIST ITEM NO. 50	PAGE NO. 58	
--	----------------------------------	----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE

MARCH 1996

APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mill)							

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		0.000	-		0.130
FY96	-		0.000	-		0.000
FY97	-		1.164	-		0.463

P-1 SHOPP LIST
ITEM NO.
50

PAGE NO.
59

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	B. WEAPON MODEL/SERIES/ POPULAR NAME WWMCCS/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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. AFC2N MAJCOM UPGRADES	A				VAR	N/A	(7,316)	VAR	N/A	(3,615)	VAR	N/A	(4,737)
LAN/REMOTE SITES	A						1,965			3,615			2,267
THROUGHPUT UPGRADES	A						2,800						2,470
							2,551						
2. GCCS MODERNIZATION	A				VAR	N/A	11,103	VAR	N/A	1,522	VAR	N/A	5,428
TOTAL							18,419			5,137			10,165

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE WWMCCS/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										
MAJCOM UPGRADES										
FY95	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	DEC 94	APR 95	VAR ²	N/A ²			
LAN/REMOTE SITES										
FY95	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	DEC 94	APR 95	VAR ²	N/A ²			
FY96	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	OCT 95	DEC 95	VAR ²	N/A ²			
FY97	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	OCT 96	DEC 96	VAR ²	N/A ²	YES	NO	
THROUGHPUT UPGRADES										
FY95	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	DEC 94	APR 95	VAR ²	N/A ²			
FY97	MULTIPLE ¹	OPTION ¹	AFMC/ESC-38EIW	OCT 96	DEC 96	VAR ²	N/A ²	YES	NO	

D. REMARKS

- 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.
- PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.
- OPTION TO DISA INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT WITH SUN MICRO SYSTEMS.
- CONTRACTOR EXAMPLES: CISCO, SAN JOSE, CA; SUN MICRO SYS, INC, MOUNTAINVIEW, CA; MOTOROLA, SUNNYVALE, CA; NETWORK EQ TECHNOLOGIES, VIENNA, VA; AND ELECTRO SPACE INC, RICHARDSON, TX.
- OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT IDIQ CONTRACTS; AND OPTIONS TO VARIOUS CONTRACTS THROUGH DISA.
- OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY.
- 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	61	

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE WWMCCS/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. GCCS										
	FY95	SUN MICRO SYS MOUNTAINVIEW, CA	MIPR/OPT ³	AFMC/ESC	AUG 95	AUG 95	VAR ²	N/A ²		
	FY96	MULTIPLE ⁴	MIPR/OPT ⁵	AFMC/ESC	JAN 96 ⁶	APR 96 ⁶	VAR ²	N/A ²		
	FY97	WORLD WIDE TECHNOLOGY ST LOUIS, MO	MIPR/OPT ⁶	AFMC/ESC	NOV 96	JAN 97	VAR ²	N/A ²	YES	NO
	FY97	MULTIPLE ⁴	MIPR/OPT ⁵	AFMC/ESC	JAN 97 ⁷	APR 97 ⁷	VAR ²	N/A ²	YES	NO

REMARKS		
<p>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.</p> <p>2. PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.</p> <p>3. OPTION TO DISA INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT WITH SUN MICRO SYSTEMS.</p> <p>4. CONTRACTOR EXAMPLES: CISCO, SAN JOSE, CA; SUN MICRO SYS, INC, MOUNTAINVIEW, CA; MOTOROLA, SUNNYVALE, CA; NETWORK EQ TECHNOLOGIES, VIENNA, VA; AND ELECTRO SPACE INC, RICHARDSON, TX.</p> <p>5. OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT IDIQ CONTRACTS; AND OPTIONS TO VARIOUS CONTRACTS THROUGH DISA.</p> <p>6. OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY.</p> <p>7. AWARD AND DELIVERY DATES REPRESENT THE DATES OF FIRST AWARD AND DELIVERY OF EQUIPMENT.</p>		
P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
50	62	

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MOBILITY COMMAND AND CONTROL				
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In M\$)		8.061	.937	4.605	3.311	1.500	2.259	1.686

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 backbone for base-wide multi-media connectivity to accomplish AMC's tasks. Whether in peace or war, the Ground Digital Communications Terminal (GDCT) program will provide the AMC Combat Control teams lightweight portable digital communications message processors capable of digital burst transmission for communication with Tanker Airlift Control Elements, Air Mobility Elements and other services over the tactical air control (TACs) in combat. The Objective Wing Command Post (OWCP) program will standardize and upgrade all wing level C4 systems. Under the Tactical C2 program, Combat Control Teams will be provided with new and enhanced communications systems to receive and relay command and control information at the furthest element of AMC's command and control structure. The reorganization and restructuring of the mission of Combat Control Forces dictates the transfer of AMC/CCT programs to the Air Force Special Operations Command (AFSOC). Following are specific details of FY95-97 AMC procurement:

GLOBAL COMMAND AND CONTROL (C2) ARCHITECTURE: These funds continue AMC's integrated upgrade of command and control systems directly supporting AMC global airlift and refueling mission. The present systems rely on twenty year old equipment and even older technology.

a. **GROUND DIGITAL COMMUNICATIONS TERMINALS (GDCT):** Hand-held digital, data burst communications devices provide a lightweight tactical message handling terminal for tactical point-to-point data communications for AFSOC Special Tactics Teams. FY95 and FY97 funding continues procurement begun with prior year funding. The total requirement is for 130 GDCTs, 100 GDCTs will have been procured through FY97.

b. **OBJECTIVE WING COMMAND POST (OWCP):** Standardizes and upgrades 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 command and control 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.

c. **LOCAL AREA NETWORK (LAN):** FY95 funding provided each AMC base and enroute location with the capability necessary for each to function as an integral part of a command-wide networking infrastructure to provide users and decision-makers with real time access to electronic information -- anytime, anywhere throughout the world. FY96 funding continues procurement of network equipment for each AMC base and enroute locations for a command-wide networking infrastructure. FY97 and subsequent funding has been transferred to the Air Force Operations and Maintenance (O&M) Appropriation in accordance with the new DoD expense/investment policy.

	P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 63	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MOBILITY COMMAND AND CONTROL				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

d. **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) to provide C2 to the furthest reaching elements of Air Force Special Operations Command (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. FY95 funds purchased 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; (3) Multiband, Multimode Beacons (MMB), which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations; and (4) Enhanced Manpack UHF Terminals (EMUT) for portable satellite communications where STT personnel must deploy to their objective areas. FY97 funding continues this procurement.

e. **BASE COMMAND, CONTROL COMMUNICATIONS AND COMPUTER (C4) INFRASTRUCTURE:** This program provides a high throughput, fiber backbone for basewide multimedia connectivity and replaces the present copper cable, which cannot support the high speed bandwidth required, with present and future communications requirements. FY95 funds purchased fiber optic cable, fiber optic interface devices and test/diagnostic equipment. Fourteen bases are scheduled for improvement of C4 multimedia connectivity beginning in FY95. FY95 funds completed McConnell AFB, KS, Fairchild AFB, WA, Grand Forks AFB, ND, and McChord AFB, WA. This program continues in FY96/FY97 under the Air Force Base Information Infrastructure effort in P-1 line # 58.

	P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 64	
--	----------------------------------	----------------	--

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

GLOBAL C2 ARCHITECTURE					VAR	N/A	(8,061)	VAR	N/A	(937)	VAR	N/A	(4,605)
a. GDCT	A						1,044						750
b. OWCP	A						500						2,370
c. LAN	A						2,579			937			
d. TAC C2 PROGRAM	A						1,290						1,485
e. BASE C4 INFRASTRUCTURE	A						2,648						
TOTAL							8,061			937			4,605

	P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 65	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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. GROUND DIGITAL COMM TERMINALS (GDCT)										
FY95	LITTON ¹ LONGMONT, CO	C/FFP	HQ AFSOC	FEB 95 ²	SEP 95 ²	VAR ³	N/A ³			
FY97	UNKNOWN	C/FFP	HQ AFSOC	JUN 97	DEC 97	VAR ³	N/A ³	YES	NO	
B. OBJECTIVE WING COMMAND POST (OWCP)										
FY95	MULTIPLE	C/FP	HQ AMC	DEC 95	JAN 96	VAR	N/A ⁵			
FY97	SEIMANS ROLM VIENNA VA	OPT/FFP ⁴	HQ AMC	FEB 97	JUL 97	VAR	N/A ⁵	NO	YES	APR 96
C. LOCAL AREA NETWORK (LAN)										
FY95	MULTIPLE	OPTION/FP ⁶	HQ AMC	MULTI	MULTI	VAR	N/A ⁷			
FY96	MULTIPLE	OPTION/FP ⁶	HQ AMC	MULTI	MULTI	VAR	N/A ⁷	YES	NO	
D. TACTICAL C2										
FY95	MULTIPLE	OPTION/FP ⁸	HQ AFSOC	MULTI ⁸	MULTI ⁸	VAR	N/A ⁹			
FY97	MULTIPLE	OPTION/FP ⁸	HQ AFSOC	MULTI ⁸	MULTI ⁸	VAR	N/A ⁹	YES	NO	

D. REMARKS

- EXAMPLES OF CONTRACTORS: LITTON, LONGMONT, CO AND CODAR, LONGMONT, CO. LITTON IS THE MAJOR CONTRACTOR.
- REPRESENTS DATE OF FIRST AWARD AND DELIVERY.
- PROCURES VARYING DCT EQUIPMENT ITEMS (DCT, DCT GATEWAYS) RESULTING IN VARYING UNIT COSTS.
- OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SEIMANS ROLM, VIENNA, VA.
- UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
- UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
- UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
- UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
- PROCURES A VARIETY OF BRIDGES, REPEATERS, ROUTERS, TEST EQUIPMENT, ETC.

P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 66	Exhibit P-5a Procurement History and Planning
----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				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

E. BASE C4 INFRASTRUCTURE										
FY95	MULTIPLE	OPTION/FP ⁶	HQ AMC	MULTI ⁸	MULTI ⁸	VAR	N/A ⁷			

D. REMARKS

1. EXAMPLES OF CONTRACTORS: LITTON, LONGMONT, CO AND CODAR, LONGMONT, CO. LITTON IS THE MAJOR CONTRACTOR.
2. REPRESENTS DATE OF FIRST AWARD AND DELIVERY.
3. PROCURES VARYING DCT EQUIPMENT ITEMS (DCT, DCT GATEWAYS) RESULTING IN VARYING UNIT COSTS.
4. OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SEIMANS ROLM, VIENNA, VA.
5. UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
6. UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
7. UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
8. UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
9. PROCURES A VARIETY OF BRIDGES, REPEATERS, ROUTERS, TEST EQUIPMENT, ETC.

P-1 SHOPP LIST ITEM NO. 51	PAGE NO. 67	Exhibit P-5a Procurement History and Planning
--	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)		24.272	15.076	14.316	15.229	18.222	19.030	19.444

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, and to provide tactical sensors and communications equipment for air base defense forces. Base closure plans are incorporated into the Air Force Physical Security program. In the event a location is identified for realignment or closure, affected project funding is diverted to other unfunded program requirements. FY95-97 funds will be used to procure the following equipment:

1. AIR BASE DEFENSE:

a. **COMMUNICATIONS:** FY95 funds procured Scope Shield II radios for security police mobility forces that defend deployed Air Force assets. Scope Shield II equipment provides multi-channel, multi-band, secure voice capability, and interoperability with other Services and host nation forces. Deficiencies of existing systems were highlighted in Desert Storm (limited interoperability and insufficient range). The total security police requirement is 5,065 handheld radios, 1,419 vehicle adapters, 330 base station radios, 495 repeaters, and accessories. Scope Shield procurement ended in FY95.

b. **SENSORS:** FY96/97 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 current Air Force requirement is for 92 squad kits, 207 flight kits, and 34 headquarters kits to support two major regional conflicts. Procurement begins in FY96 where funding buys out the total current Air Base Defense requirement for handheld thermal imagers (207 devices). FY97 funds begin a new contract to procure (1) 18 squad sensor kits (each kit containing two active, two passive, two telescopic infrared (IR), and one breakwire sensors; seven comm modules and associated support equipment); (2) 39 flight kits (each kit containing six passive, six active, six IR, two magnetic, two breakwire and one microwave sensors, 23 comm modules and associated support equipment); and (3) six headquarters kits (each kit containing one desktop, three laptop annunciators, one map scanning CD ROM and tape drive, and print capability with associated support equipment).

AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: These funds will provide for new intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to replace older generation sensors that are no longer supportable. If the older sensors are not replaced during the next two-three years, significant security deficiencies will exist at weapon storage areas with ALCMs. FY95 commenced installation at Barksdale AFB, LA. FY96/97 funding provides for equipment integration and upgrades at Minot AFB, ND and Fairchild AFB, WA.

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 miniature intrusion detection systems (MIDS) 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.

	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 68	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

FY95 funded security upgrades at Aviano AB, Italy. FY96/97 will begin to fund portable security equipment to be used in the Pacific and European theaters to respond to changing and evolving threat scenarios.

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 ten years, on the average, depending on environmental conditions, type of sensor, and availability of spare parts. Previously, the Air Force base physical security projects (Flightline Security, Perimeter Sensors, Aircraft Shelter Sensors, Tactical Sensors, and Entry Control/Command and Control Systems) were separately contracted or performed by government engineering and installation teams. The Air Force now has a single contract to survey, design, install, integrate, and deliver turn-key security systems at fixed sites encompassing exterior, interior, and command and control functions. The funds for this effort will now be centrally managed to support the single contract and better respond to changing operations requirements and priorities.

Beginning in FY96, the Base Physical Security Systems procurement funds are displayed in two categories on P-5 budget documentation: Flightline Security (4.a.) and Fixed-Site Security (4.f.). Funding for Perimeter Sensors (4.b.), Aircraft Shelter Sensors (4.c.) and Entry Control/Command and Control Systems (4.e.) has been combined under the category Fixed-Site Security (4.f.). Tactical Sensor (4.d.) funds have been merged with funding for Air Base Defense Sensors (1.b.) for better execution of resources.

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. FY95 funds procured sensor equipment for projects at Barkedale AFB, LA and Malmstrom AFB, MT. In FY96 the Air Force begins procurement of flightline security equipment as part of a new Tactical Automated Security Systems (TASS) contract. TASS will include a variety of sensors to meet a broad range of intrusion detection needs (perimeter, tactical, flightline). Flightline sensors include the use microwave technology with tunable frequencies for world-wide deployment. The FY96 funds procure an initial quantity of 23 TASS thermal imagers programmed for distribution to Pacific Air Force, US Air Forces Europe and Hq Air Combat Command. FY97 funds will provide additional upgrades to PACAF flightline security systems at two far east locations.

	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 69	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

b. **PERIMETER SENSORS:** FY95 funding continued upgrades of perimeter detection equipment for nuclear weapon storage areas and key command and control facilities. Equipment now in use, including Small, Permanent Communications and Display Segment (SPCDS), was fielded in the 1970s and is at the end of its service life. FY95 funded projects to replace perimeter sensors around weapon storage areas at Barksdale AFB, LA and Malmstrom AFB, MT. FY 96 and beyond funding is programmed under Fixed Site security (paragraph 4.f.)

c. **AIRCRAFT SHELTER SENSORS:** Funds procure and install interior security alarms for overseas aircraft shelters. FY95 funds support projects at Aviano AB, Italy. For FY96 and beyond, aircraft shelter sensor upgrades will be programmed under Fixed-Site Security (paragraph 4.f.).

d. **TACTICAL SENSORS:** Air base forces require electronic sensors and assessment devices to detect intrusions into areas surrounding deployed Air Force resources. Current capability is limited. The equipment is a force multiplier and avoids deployment of large numbers of security police to reach the required level of detection and response capability. Limited quantities of thermal imagers and sensors were procured in FY95. Beginning in FY96, the Air Force has restructured the tactical sensor program, and funding for tactical sensor kits has been merged with dollars for Air Base Defense (paragraph 1.b.) for better visibility and management of funds.

e. **ENTRY CONTROL/COMMAND AND CONTROL SYSTEMS:** Funds procure Advanced Entry Control System (AECS) equipment to automate entry and exit control of personnel and vehicles in/out of weapon storage facilities, flightline areas, key command and control facilities, and other sensitive areas. FY95 funds supported AECS installation and test and evaluation at the Base Intrusion Security System (BISS) test facility (Eglin AFB, FL). Beginning in FY96 AECS funding has been merged under Item 4.f. below.

f. **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 ten years on average, depending on environmental conditions, types of sensor and availability of spare parts. Projects are prioritized by Major Commands and Hq USAF. The Systems Program Office conducts site surveys, determines appropriate hardware and software solutions, manages installation contracts, and conducts security systems test and turnover to users. FY96 funds a WSA (weapon storage area) upgrade at Dyess AFB, TX, completes area upgrades for Whiteman AFB, MO, and installs and operationally tests an Automated Entry Control System (AECS) at Malmstrom AFB, MO. Additionally, funds have been programmed for four video

	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 70	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

storage systems to correct an assessment deficiency identified at four WSA locations within CONUS. FY97 will fund WSA upgrades and AECS installations at F.E. Warren AFB, WY, and integration of additional area docks into the entry control system at Whiteman AFB.

5. **MINUTEMAN SQUADRON SECURITY:** Funds procure intrusion detection systems to replace older generation sensors that are no longer supportable. If older sensors are not replaced as they age, security deficiencies will occur at Minuteman missile warhead locations. FY95 funds supported security equipment integration and test at an operational missile facility at Malmstrom AFB, MT. FY96/97 funds will purchase equipment upgrades at Malmstrom AFB, MT, F.E. Warren AFB, WY, and Grand Forks AFB, ND.

6. **ANG/AFR:**

		ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS	
FY95	-	3.800	-	0.600	
FY96	-	2.700	-	1.080	
FY97	-	1.180	-	0.330	

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

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/ POPULAR NAME AIR FORCE PHYSICAL SECURITY SYSTEM					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. AIR BASE DEFENSE													
a. COMMUNICATIONS	A				VAR	N/A	12,652						
b. SENSORS	A							VAR	N/A	5,147	VAR	N/A	6,831
2. ALCM SECURITY SYS	A				VAR	N/A	252	VAR	N/A	1,234	VAR	N/A	1,263
3. ANTITERRORISM	A				VAR	N/A	50	VAR	N/A	908	VAR	N/A	874
4. BASE PHYS SEC SYS					VAR	N/A	(11,203)	VAR	N/A	(7,670)	VAR	N/A	(4,831)
a. FLIGHTLINE SEC	A						2,451			575			789
b. PERIMETER SENSORS	A						3,452						
c. A/C SHELTER SENSORS	A						887						
d. TACTICAL SENSORS	A						954						
e. ENTRY CONTROL/ CMD & CONTROL SYS	A						3,459						
f. FIXED-SITE SECURITY	A									7,095			4,042
5. MINUTEMAN SQD SEC	A				VAR	N/A	115	VAR	N/A	117	VAR	N/A	517
TOTAL							24,272			15,076			14,316

	P-1 SHOPP LIST ITEM NO. 52	PAGE NO. 72	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
A. COMMUNICATIONS										
FY95	RACAL COMM ROCKVILLE, MD	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR	N/A ³			
B. SENSORS										
FY96	MAGNAVOX MAHWAH, NJ	C/FFP	AFMC/ESC	FEB 96	AUG 96	VAR ²	N/A ³			
FY97	UNKNOWN	C/FFP	AFMC/ESC	JAN 97	MAY 97	VAR ²	N/A ³	YES	NO	
2. ALCM SECURITY SYSTEMS										
FY95	MULTIPLE ⁴	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
FY96	MULTIPLE ⁴	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
FY97	UNKNOWN	C/FFP	AFMC/ESC	FEB 97	JUN 97	VAR ⁵	N/A ³	YES	NO	
3. ANTITERRORISM										
FY95	MULTIPLE ⁶	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
FY96	MULTIPLE ⁶	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
FY97	MULTIPLE ⁶	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	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.
52

PAGE NO.
73

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
4. BASE PHYSICAL SECURITY SYSTEMS										
A. FLIGHTLINE SECURITY										
FY95	MULTIPLE ⁸	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
FY96	MAGNAVOX MAHWAH N.J.	C/FP	AFMC/ESC	FEB 96	AUG 96	VAR ⁵	N/A ³			
FY97	UNKNOWN	C/FP ⁷	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³	YES	NO	
B. PERIMETER SENSORS										
FY95	MULTIPLE ⁸	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
C. AIRCRAFT SHELTER SENSORS										
FY95	MULTIPLE ⁸	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			
D. TACTICAL SENSORS										
FY95	DOE/SANDIA LABS ALBUQUERQUE, NM	MIPR ⁹	AFMC/ESC	FEB 95	AUG 95	VAR ⁵	N/A ³			
E. ENTRY CONTROL/COMMAND & CONTROL SYSTEM										
FY95	SYS PLAN CORP ARLINGTON, VA	DEL ORD ¹	AFMC/ESC	MULTI	MULTI	VAR ⁵	N/A ³			

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.
74

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

F. FIXED SITE SECURITY										
FY96	SYS PLAN CORP	OPTION 10	AFMC/ESC	MULTI	MULTI	VAR 5	N/A 3			
FY97	SYS PLAN CORP ARLINGTON, VA	OPTION 10	AFMC/ESC	MULTI	MULTI	VAR 5	N/A 3	YES	NO	
5. MINUTEMAN SQUADRON SECURITY										
FY95	MULTIPLE 8	DEL ORD 1	AFMC/ESC	MULTI	MULTI	VAR 5	N/A 3			
FY96	MULTIPLE 8	DEL ORD 1	AFMC/ESC	MULTI	MULTI	VAR 5	N/A 3			
FY97	MULTIPLE 8	DEL ORD 1	AFMC/ESC	MULTI	MULTI	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. 52	PAGE NO. 75
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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.
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: International Creative Data Industries, Bethel, CT.
5. Various types and quantities of physical security equipment are site dependent. Systems are composed of multiple sensors, sensor assessment and command.
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, 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 typically involved in Base Physical Security System contracts: Perimeter Products, Mountain View, CA; Burrel Corp, Lancaster, PA; Kohu Inc., San Diego, CA; SMF Systems Corp, San Francisco, CA; and International Creative Data Industries, Inc., Bethel, CT.
9. Funds are MIPR'd from DoD to the Dept Of Energy (DOE)/Sandia National Laboratories to accomplish technology transfer of developed tactical sensor work for control and communications (C3) equipment.
10. Option to a five-year FY93 delivery order contract with Systems Planning Corp, Arlington, VA., prime contractor for fixed site security installations.

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

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT TRAINING RANGES				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		14.107	2.065	11.364	13.375	14.691	18.513	34.273

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 which increases the capacity to 100 aircraft will not begin until the outyears. In the interim, Nellis AFB, recipient of the first MDS in 1986, will be upgraded under the Nellis Air Combat Training System (NACTS).

1. AIR COMBAT TRAINING SYSTEMS

a. NELLIS AIR COMBAT TRAINING SYSTEM (NACTS): Formerly called the Joint Air Combat Training System, NACTS was rescoped to upgrade Nellis AFB, NV only. The rescope deleted Navy participation, the transportable variant, and the Computer Generated Threat System (CGTS). The upgrade will provide an enhanced capability to train aircrews in air-to-air and air-to-ground combat and electronic warfare by increasing the number of possible participants from 36 to 100 which is more consistent with real-world scenarios. Global Positioning System (GPS) will be used for tracking via the current multi-lateration system. FY95 funding procured the Nellis AFB NACTS hardware, to include computers, display and debriefing systems, remote site equipment, towers, secure communications and system interfaces, and will complete this requirement. No FY97 funding requested.

b. NELLIS BACKBONE UPGRADE: This program will upgrade the Nellis Digital Microwave Communication System (NDMCS). FY97 funds will replace aging NDMCS fiber optic cable and procure 12 boresight video links and Unmanned Threat Emitter (UMTE) pointing capability. The system will provide a superior telecommunications platform for moving sensitive and classified video and communications data. Additionally, the system will support NACTS with additional data communications bandwidth.

c. RANGE AIRSPACE MANAGEMENT SYSTEM (RAMS): RAMS at Nellis AFB, NV, is a real-time system to collect Time Space Position Information (TSP) and record, process and display this information on independently controlled consoles. FY93 funds were used to procure and install the basic system. FY95 funds will upgrade the system to provide mission essential safety of flight requirements which were identified during operational testing and evaluation. The modernized system will allow Blackjack and Red Flag operations to record mission data and compartmentalize sorties, dramatically improving range safety. No FY97 funding is requested.

	P-1 SHOPP LIST ITEM NO. 53	PAGE NO. 77	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

COMBAT TRAINING RANGES

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

d. **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. FY95 funds procured ADDS units for the Goldwater Range and Measurement Debriefing System (GRMDS) at Luke AFB, AZ. FY97 funds will procure one special access ADDS for each Air Force F-15 squadron.

e. **TYNDALL RANGE EXPANSION:** Expansion of over-water instrumented range area is required to facilitate training with the Advanced Medium Range Air-to-Air Missile (AMRAAM). Tyndall AFB, FL trains all F-15 air-to-air pilots in the USAF. The upgrade to the training range is critical to viability of initial qualification training of F-15 pilots. The upgrade will expand current range coverage by six times through use of existing GPS technology at a cost lower than the traditional multi-lateration system. FY96 funds are being used to procure ground system hardware and installation necessary for system interface with the Global Positioning System and will complete the expansion program. No FY97 funds requested.

f. **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 is upgrading the Range Data Management System (RMDS) capabilities at Fort Irwin, CA, from 700 to 2000 ground participants with potential growth to 4000. 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.

g. **ALPENA AIR NATIONAL GUARD (ANG) TRAINING RANGE:** This Congressional interest 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 autonomous of a ground/lake base infrastructure. 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 be used to purchase ground equipment including computers, a display and debriefing station, antennas and communication links.

P-1 SHOPP LIST
ITEM NO.
53

PAGE NO.
78

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

COMBAT TRAINING RANGES

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

2. ANG/AFR:

	QTY	ANG DOLLARS	QTY	AFR DOLLARS
FY95	-	-	-	-
FY96	-	-	-	-
FY97	-	4.000	-	-

P-1 SHOPP LIST
ITEM NO.
53

PAGE NO.
79

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

AIR COMBAT TRNG SYS					VAR	N/A	(14,107)	VAR	N/A	(2,065)	VAR	N/A	(11,364)
a. NACTS	A						12,107						
b. NELLIS BACKBONE UPGRADE	A												1,000
c. RAMS	A						500						
d. ADDS	A						1,500						1,232
e. TYNDALL RANGE EXP	A									2,065			
f. NTC/AW	A												5,132
g. ALPENA TRNG RANGE	A												4,000
TOTAL							14,107			2,065			11,364

	P-1 SHOPP LIST ITEM NO. 53	PAGE NO. 80	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

**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
AIR COMBAT TRAINING SYSTEMS										
A. NELLIS AIR COMBAT TRNG SYS (NACTS)										
FY95	CUBIC DEFENSE SAN DIEGO, CA	OPT/FPIF ¹	AFMC/ASC	NOV 95	JUN 98	VAR	N/A ²			
B. NELLIS BACKBONE UPGRADE										
FY97	LORAL LAS VEGAS, NV	SS/FFP	AFMC/ASC	JAN 97	MAY 97	VAR	N/A ²	YES	NO	
C. RAMS										
FY95	COMPTTECK FED SYS BUFFALO, NY	OPT/FFP ³	AFMC/ASC	MAR 96	OCT 96	VAR	N/A	YES	NO	
D. ADVANCED DISPLAY & DEBRIEFING SYSTEM (ADDS)										
FY95	APPLIED DATA TECHNOLOGY SAN DIEGO, CA	OPT/FFP ⁴	AFMC/ASC	SEP 95	OCT 95	VAR	N/A ²	YES	NO	
FY97	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	MAY 97	VAR	N/A ²	YES	NO	

D. REMARKS

- OPTION TO FY94 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.
- MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.
- OPTION TO FY93 FIRM FIXED CONTRACT WITH COMPTTECK.
- OPTION TO FY92 FIRM FIXED PRICE CONTRACT TO APPLIED DATA TECHNOLOGY.

P-1 SHOPP LIST
ITEM NO.

53

PAGE NO.

81

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
E. TYNDALL RANGE EXPANSION FY96	CUBIC DEFENSE SAN DIEGO, CA	OPT/FPIF ¹	AFMC/ASC	MAR 96	MAR 97	VAR	N/A ²			
F. NTC/AW FY97	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	SEP 98	VAR	N/A ²	NO	YES	JUN 96
G. ALPENA TRNG RANGE FY97	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	FEB 99	VAR	N/A ²	NO	YES	MAY 96

D. REMARKS

1. OPTION TO FY84 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.
2. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.
3. OPTION TO FY83 FIRM FIXED CONTRACT WITH COMPECK.
4. OPTION TO FY92 FIRM FIXED PRICE CONTRACT TO APPLIED DATA TECHNOLOGY.

P-1 SHOPP LIST
ITEM NO.
53

PAGE NO.
82

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 ITEM NOMENCLATURE C3 COUNTERMEASURES						
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)		5.388	7.496	9.128	7.219	7.103	7.720	8.508

Air Force Electronic Combat (EC) is a mission performed by aerospace forces to control selected parts of the electromagnetic spectrum in support of the four basic aerospace roles: aerospace control, force application, force enhancement, and force support. EC includes Electronic Warfare (EW), elements of Command and Control Warfare (C2W) strategy, and operations such as Suppression of Enemy Air Defenses (SEAD), all supported by intelligence. EW involves actions to protect friendly electromagnetic capabilities as well as actions to neutralize or destroy the enemy's electromagnetic capabilities. C2W is the integrated use of EW, psychological operations, physical destruction, military deception, and operations security to deny information to influence, degrade or destroy adversary C2 capabilities while protecting our own systems against such activities. As such, C2W is the military strategy which implements Information Warfare (IW). The Air Intelligence Agency (AIA) is responsible for supporting the combat commander with equipment, manpower, procedures, and training to perform the EC mission and support his C2W strategy. Elements of the program are addressed individually below.

1. **AIR FORCE INFORMATION WARFARE CENTER (AFIWC) SUPPORT:** AFIWC is the in-house consultant to operational commanders and Air Force agencies on Electronic Combat (EC) and Information Warfare/Command and Control Warfare (IW/C2W) from concept formulation to combat evaluation. Specifically, AFIWC provides operational commands with concept and systems analyses to assist in determining if EC and IW/C2W needs can best be satisfied by a change in doctrine, new tactics or training, procurement of additional equipment already in production, modifications to existing equipment or by new systems acquisition. AFIWC also provides technical assistance to the Air Force in developing EC and IW/C2W analysis and strategy. AFIWC provides EC and IW/C2W support for combat preparation, planning and operations, and actively provides analytical support to EC systems acquisition. AFIWC also has responsibility for IW/C2W command and control protect projects such as Communications Security (COMSEC) which procures equipment to monitor friendly unsecured telecommunications to provide USAF commanders an Operations Security (OPSEC) vulnerability assessment of their units. The current program procures a limited number of advanced Telecommunications Systems Analysis Positions (TSAP) which will provide the capability to monitor voice, data, facsimile, and video in one convenient package. Additionally, AFIWC supports the RED FORCE program which procures upgraded communications jammers used to train aircrews, combat controllers, and communications specialists to operate in a stressed (jamming) environment. Simulator validation funding procures support equipment which provides simulator analysis used to ensure accurate replication of real world threat systems. Information Warfare (IW) is a JCS (Chairman Joint Chiefs of Staff) and CSAF (Chief of Staff, Air Force) directed program to develop a Command and Control Warfare (C2W) capability, a military application to "decapitate the enemy's command structure from its body of combat forces". IW supports production of products for use in waging IW/C2W warfare to achieve information dominance and victory on the battlefield. Constant Web (CW) is the Air Force Command, Control and Communications Countermeasures (C3CM) operational support system which provides force-level C3CM intelligence data analysis and support to the Joint Intelligence Center, Air Force, Navy, Army, and Marine units, and wartime planning staffs.

	P-1 SHOPP LIST ITEM NO. 54	PAGE NO. 83	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE C3 COUNTERMEASURES				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

FY95/96/97 funds procure equipment in support of (a) Automated Data Processing upgrades, (b) SENSOR ARROW upgrades, (c) Modeling and Simulation, (d) COMSEC Assessment upgrades, (e) RED FORCE, (f) TSAP, (g) Simulator Validation, (h) CONSTANT WEB, and (i) Information Warfare. FY97 funding will procure equipment for increased Information Warfare (IW) offensive and defensive capability and increased modeling and simulation capabilities.

2. JOINT COMMAND AND CONTROL WARFARE CENTER (JC2WC): The JC2WC provides unified, joint, component, and subordinate commanders with technical assistance, analytical support and advice for planning and executing electronic warfare (EW) and command and control warfare (C2W) in military operations. This program provides predictive analysis and post event mission analytic support to US forces involved in contingency operations. The JC2WC analyzes and correlates all-source data on both friendly and threat forces involved in contingency operations. This data is used as input into sophisticated EW 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. Analysis results in a complete assessment of C2W options and effectiveness predictions. FY95 funding provided upgrades to the EC analyst network including procurement of high resolution, advanced technology, three dimensional graphics workstations required to work with modeling software supporting near-real-time force and unit level planning. Funding also procured a Combat Analysis System to include a massive parallel processor necessary to access the large volumes of terrain, atmospheric and weather data involved; procured communications equipment critical to Field Commander support capability; automated support for EW/C2W training simulations; and procured equipment required to provide operational test support for the Services, Joint Staff and DoD test agencies. FY96/97 funds will continue the modernization and upgrade programs.

	P-1 SHOPP LIST ITEM NO. 54	PAGE NO. 84	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C3 COUNTERMEASURES					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	(3,517)	VAR	N/A	(5,465)	VAR	N/A	(7,551)
a. ADP UPGRADES	A						153			194			210
b. SENSOR ARROW UPGRADES	A						888						
c. MODELING AND SIMULATION	A						313			474			519
d. COMSEC ASSESSMENT UPGRADES	A						466			334			425
e. RED FORCE	A						347			334			425
f. TSAP EQUIPMENT	A						1,200			1,365			1,193
g. SIMULATOR VALIDATION	A						150						
h. CONSTANT WEB	A									494			320
i. INFORMATION WARFARE	A									2,270			4,459

	P-1 SHOPP LIST ITEM NO. 54	PAGE NO. 85	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C3 COUNTERMEASURES					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	(1,871)	VAR	N/A	(2,031)	VAR	N/A	(1,577)
a. EC ANALYST NETWORK	A						626			406			517
b. COMBAT ANALYSIS SYSTEM	A						100			180			230
c. FIELD COMMANDERS SUPPORT	A						615			665			180
d. COMPUTERIZED TRAINING SIMULATION	A						130			180			175
e. EW TEST SUPPORT	A						400			600			475
TOTAL							5,388			7,496			9,128

	P-1 SHOPP LIST ITEM NO. 54	PAGE NO. 86	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
B. SENSOR ARROW UPGRADES										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
C. MODELING AND SIMULATION										
FY95	SILICON GRAPHICS MOUNTAIN VIEW, CA	SS/FP	HQ AIA	DEC 94	JAN 95	VAR	N/A ²			
FY96	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
D. COMSEC ASSESSMENT UPGRADES										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	

REMARKS

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

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.

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. 54

PAGE NO.
87

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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. RED FORCE										
FY95	LORAL/RAYTHEON ³	OPTION ³	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	LORAL/RAYTHEON ³	OPTION ³	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	LORAL/RAYTHEON ³	OPTION ³	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
F. TSAP EQUIPMENT										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
G. SIMULATOR VALIDATION										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
H. CONSTANT WEB										
FY96	MULTIPLE	OPT/FP ⁴	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	OPT/FP ⁴	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
I. INFORMATION WARFARE										
FY96	MULTIPLE	OPT/FP ⁴	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	
FY97	MULTIPLE	OPT/FP ⁴	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES	NO	

D. REMARKS

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

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.

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.

54

PAGE NO.

88

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	DIAMULTIPLE ⁵	MIPR/OPT ⁵	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	DIAMULTIPLE ⁵	MIPR/OPT ⁵	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES		NO
FY97	DIAMULTIPLE ⁵	MIPR/OPT ⁵	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES		NO
B. COMBAT ANALYSIS SYSTEM										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES		NO
FY97	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES		NO
C. FIELD COMMANDERS SUPPORT										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²			
FY96	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ²	YES		NO
FY97	MULTIPLE	OPT/FP	HQ AIA	MULTI ¹	MULTI ¹	VAR	N/A ³	YES		NO

D. REMARKS

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

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.

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.

54

PAGE NO.

89

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				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										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2			
FY96	MULTIPLE	OPT/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO	
FY97	MULTIPLE	OPT/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO	
E. EW TEST SUPPORT										
FY95	MULTIPLE	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2			
FY96	MULTIPLE	OPT/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO	
FY97	MULTIPLE	OPT/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:

AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.

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. 54

PAGE NO.

90

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	31.414	26.665	22.385	29.919	21.519	21.948	22.351	

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 and Base Level Systems Modernization 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 Reach-Global Power 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 the Standard Base Level Support-Fact-Of-Life (SBL-S-FOL) through computer systems support for the Air Force Installations worldwide. During both peace and wartime contingencies, active duty, guard, and reserve 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. FY97 funding will provide maintenance and support of hardware and communications interfaces. Furthermore, the inability to resolve system software problems could make the entire standard base-level computer support 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 required 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 procure servers to begin the process of regionalizing WIMS/SIMS/BCAS. FY97 funds will buy additional servers and communications equipment.

3. AIR EDUCATION AND TRAINING COMMAND (AETC) WANG REPLACEMENT: This program will provide 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. Included in this effort is the transition from Wang proprietary mini-computers to open systems architecture, and also the construction 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

	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 91	
--	----------------------------------	----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

necessary communications between each site, major command, HQ USAF, and other functions. This program procures computer hardware and network software needed to satisfy the LAN/WAN requirement and mission objects. FY96 funds will procure network communications interfaces, a limited amount of communications infrastructure, network servers and associated software that are not part of any other initiative. No FY97 funding is requested.

4. CARGO MOVEMENT OPERATIONS SYSTEM (CMOS): This program supports the FY87 Joint Chiefs of Staff (JCS) direction and the FY89 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. Increment I has been implemented at 77 active duty Air Force, 92 Air National Guard (ANG) and 13 Air Force Reserve (AFRES) locations. Increment II, which adds the automated deployment capability, is being implemented at all of the above locations with additional sites at the Air Logistics Centers. Capable of supporting routine and surge requirements, CMOS automates base shipping and deployment processes, produces movement documentation, and furnishes timely information to Major Commands (MAJCOMs), transportation component commands, and the joint deployment community. As the Air Force source movement information system, CMOS is a major contributor to system in-transit visibility and control over cargo and passenger movement. CMOS successfully completed Qualification Operational Test and Evaluation (QOT&E) in December 1993 and a Milestone III Decision in February 1994. CMOS began worldwide system implementation of Increment I in February 1994. Increment II is currently being fielded. FY96 funds are buying 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. No FY97 funds are requested.

5. COMBAT AMMUNITION SYSTEM (CAS): CAS enhances Air Force combat capability through automating munitions activities worldwide. CAS provides the framework for effective munitions logistics command and control at each level of combat direction or execution from the field unit through the Joint Staff. CAS is an independent, standard, and interactive communications-computer system comprised of dedicated, secure minicomputers and microcomputers. The components are integrated both horizontally and vertically at four levels: Air Logistics Centers/Air Staff (CAS-A); Base (CAS-B); Command (CAS-C); and Deployable (CAS-D). CAS will be used by all activities responsible for operations involving ammunition assets or the support of those operations, including the air reserve components. Prior year funding provided hardware and installation of CAS computers. FY95 funding procured hardware for installation of remaining CAS computers and modernization of some terminals already installed. No FY97 funds are requested.

	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 92	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

6. BASE LEVEL SYSTEMS MODERNIZATION (BLSM): The BLSM 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 will modernize approximately 36 computer application systems consisting of 13 plus million lines of code encompassing 12 different functional areas. The modernized systems will provide the following: greater functionality for the users; interoperability and easier interfaces with other systems through enhanced data sharing and standardization; systems that can be modified easier and faster to meet changing mission requirements; and systems that can be ported to various hardware/software platforms in an open systems environment. BLSM postures the standard computer systems for movement to the open systems environment. This program will increase the operational readiness of all base-level Automated Data Systems (ADS) supporting critical war fighting weapon systems, reduce logistics support costs, improve productivity, and provide critical decision-making information at the point of attack for operational commanders. FY97 funding for BLSM will be used to provide full implementation hardware for the three technical lead ADSs (Air Force Operations Resource Management System, Manpower Data System, and Logistics Module (LOGMOD-B)) at the RPCs and base level, and the tools necessary to modernize the remaining systems in the Standard Base Level Computer environment.

7. 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. It addresses critical needs in managing USAF fuels; reduces the current two percent error rate in a \$4 billion annual fuels budget; reduces the risk of loss of life and property; reduces USAF fuels management manpower; and provides accurate information for war planning, which increases the USAF's ability to respond to threats. It will eliminate 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 will also provide 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 will collect fuel transactions and inventory data at base level for service stations (Automated Fuels Service Stations), storage tanks (Automatic Tank Gauging), and aircraft refueling (Aircraft Data-Collection/Fuel Dispensing System). In addition FAMS sustains an information management system to support all users. At the Air Force level, FAMS will enhance the aviation fuel tracking/billing system. FY97 funds will continue to implement capabilities at base and Air Staff level while implementing hardware devices at all sites. FY97 funds will also continue procurement/installation of approximately 2022 Automatic Tank Gauging (ATG) devices in USAFE, CONUS, and PACAF and Aircraft Data Collection (ADC) devices for approximately 10,000 aircraft and metering devices for fuel dispensing systems/equipment.

	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 93	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION PROGRAM				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

8. INFORMATION PROCESSING MANAGEMENT SYSTEMS (IPMS): FY96 funding continues 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 will provide 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 include central processors, storage devices, and front-end processors. The funds will replace the older, more expensive mainframe with a more cost-effective, maintainable hardware platform. IPMS is installed at the Standard Systems Center and provides remote access to users throughout the Air Force. No FY97 funding is requested.

9. BASE LEVEL DATA AUTOMATION CONVERSION SUPPORT: This program procures equipment needed to migrate base level Air Force data automation systems to standard Air Force systems. FY95 funding procured hardware for the Manpower & Personnel (MANPER) & Logistics Feasibility Capability (LOGFAC) software code conversion & testing and the Command Manpower Data System (CMD5) at Gunter AFB, AL, to transition from the World Wide Mobile Command & Control System to the Global Command & Control System (GCCS). No FY97 funds are requested.

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

	QTY	ANG DOLLARS	QTY	AFR DOLLARS
FY95	-	7.271	-	1.872
FY96	-	2.952	-	0.634
FY97	-	1.727	-	0.350

	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 94	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		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	4,681	VAR	N/A	5,941	VAR	N/A	5,184
2. WIMS/SIMS/BCAS	A							VAR	N/A	1,976	VAR	N/A	5,685
3. AETC WANG REPL	A							VAR	N/A	2,237			
4. CMOS	A				VAR	N/A	372	VAR	N/A	183			
5. CAS	A				VAR	N/A	4,060						
6. BLSM	A				VAR	N/A	12,833	VAR	N/A	11,516	VAR	N/A	8,196
7. FAMS	A				VAR	N/A	8,355	VAR	N/A	4,052	VAR	N/A	3,320
8. IPMS	A				VAR	N/A	574	VAR	N/A	760			
9. BASE LEVEL DATA AUTO CONVERSION SUPPORT	A				VAR	N/A	539						
TOTAL							31,414			26,665			22,385

	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 95	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	-----------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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										
FY95	UNISYS MONTGOMERY, AL	OPTION/FP ¹	AFMC/ESC-SSG	NOV 94	VAR ²	VAR	N/A ³			
FY96	UNKNOWN	C/FP	AFMC/ESC-SSG	APR 96	VAR ²	VAR	N/A ³	YES	NO	
FY97	UNKNOWN	C/FP	AFMC/ESC-SSG	NOV 96	VAR ²	VAR	N/A ³	YES	NO	
2. WIMS/SIMS/BCAS										
FY96	UNKNOWN	C/FP	AFMC/ESC-SSG	AUG 96	NOV 96	VAR	N/A ³	YES	NO	
FY97	UNKNOWN	C/FP	AFMC/ESC-SSG	MAR 97	JUN 97	VAR	N/A ³	YES	NO	
3. AETC WANG REPL										
FY96	ELECT SYSTEMS RICHMOND, VA	C/FP	HQ AETC	MAR 96	JUN 97	VAR	N/A ³			
4. CMOS										
FY96	PRC CORP RESTON, VA	OPTION/FP ⁴	AFMC/ESC-SSG	NOV 94	DEC 94	VAR	N/A ³			
FY96	INTERMIC CORP, EVERETT, WA	OPTION/FP ⁵	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A ³	YES	NO	

D. REMARKS

- EQUIPMENT PURCHASED FROM SIX YEAR FY91 PHASE IV SOLE SOURCE FOLLOW-ON UNISYS CONTRACT.
- DELIVERY ORDERS AND DATES CONTINGENT UPON IMPLEMENTATION SCHEDULE.
- QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.
- OPTION TO THE FY92 SUPER MINI-COMPUTER CONTRACT.
- OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGIES CONTRACT
- OPTION TO THE FY89 AF STANDARD MULTI-USER SMALL COMPUTER REQUIREMENTS CONTRACT (SMSCRC).
- OPTION TO THE RESPECTIVE FY88 SOFTWARE SUPPORT CONTRACT
- OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESSELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTECH (GERMANY)

ESC/SSG: ELECTRONIC SYSTEMS CENTER/STANDARD SYSTEMS GROUP
 AFC4A: AF COMMAND, CONTROL, COMMUNICATIONS & COMPUTER AGENCY
 AETC: AIR EDUCATION AND TRAINING COMMAND
 SA-ALC: SAN ANTONIO AIR LOGISTICS CENTER

P-1 SHOPP LIST
ITEM NO.
55

PAGE NO.
96

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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. CAS	FY95	AT&T GREENSBORO, NC	OPTION/FP ⁶	AFMC/ESC-SSG	OCT 94	JAN 95	VAR	N/A ³		
	BASE LVL SYS MODERNIZATION									
	FY95	HARRIS CORP MONTGOMERY, AL	OPTION/FP ⁷	AFMC/ESC-SSG	JAN 95	MAY 95	VAR	N/A ³		
	FY96	UNKNOWN	C/FP	AFMC/ESC-SSG	MAY 96	AUG 96	VAR	N/A ³	YES	NO
	FY97	UNKNOWN	C/FP	AFMC/ESC-SSG	NOV 96	JAN 97	VAR	N/A ³	YES	NO
7. FAMS										
	FY95	MULTIPLE	OPTION/FP ⁸	AFMC/SA-ALC	NOV 94	JAN95	VAR	N/A ³		
	FY96	MULTIPLE	OPTION/FP ⁸	USAFE & AFMC/ SA-ALC	APR 96	JUN 96	VAR	N/A ³	YES	NO
	FY97	MULTIPLE	OPTION/FP ⁸	USAFE & AFMC/ SA-ALC	NOV 96	JAN 97	VAR	N/A ³	YES	NO
8. IPMS										
	FY95	UNISYS	OPTION/FP ¹	AFMC/ESC-SSG	NOV 94	JAN 95	VAR	N/A ³		
	FY96	UNISYS MONTGOMERY, AL	OPTION/FP ¹	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A ³	YES	NO

D. REMARKS

<ol style="list-style-type: none"> 1. EQUIPMENT PURCHASED FROM SIX YEAR FY91 PHASE IV SOLE SOURCE FOLLOW-ON UNISYS CONTRACT. 2. DELIVERY ORDERS AND DATES CONTINGENT UPON IMPLEMENTATION SCHEDULE. 3. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE. 4. OPTION TO THE FY92 SUPER MINI-COMPUTER CONTRACT. 5. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGIES CONTRACT 6. OPTION TO THE FY96 AF STANDARD MULTI-USER SMALL COMPUTER REQUIREMENTS CONTRACT (SMSCRC). 7. OPTION TO THE RESPECTIVE FY88 SOFTWARE SUPPORT CONTRACT 8. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (MO, ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTECH (GERMANY) 	<p>ESC/SSG: ELECTRONIC SYSTEMS CENTER/STANDARD SYSTEMS GROUP AFC4A: AF COMMAND, CONTROL, COMMUNICATIONS & COMPUTER AGENCY AETC: AIR EDUCATION AND TRAINING COMMAND SA-ALC: SAN ANTONIO AIR LOGISTICS CENTER</p>
--	--

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

9. BASE LEVEL DATA AUTO CONVERSION SUPPORT FY95	UNISYS MONTGOMERY, AL	OPTION/FP 1	AFMC/ESC	SEP 95	DEC 95	VAR	N/A			
---	--------------------------	-------------	----------	--------	--------	-----	-----	--	--	--

D. REMARKS 1. EQUIPMENT PURCHASED FROM SIX YEAR FY91 PHASE IV SOLE SOURCE FOLLOW-ON UNISYS CONTRACT. 2. DELIVERY ORDERS AND DATES CONTINGENT UPON IMPLEMENTATION SCHEDULE. 3. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE. 4. OPTION TO THE FY92 SUPER MINI-COMPUTER CONTRACT. 5. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGIES CONTRACT 6. OPTION TO THE FY89 AF STANDARD MULTI-USER SMALL COMPUTER REQUIREMENTS CONTRACT (SMSCRC). 7. OPTION TO THE RESPECTIVE FY88 SOFTWARE SUPPORT CONTRACT 8. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTECH (GERMANY)	ESC/SSG: ELECTRONIC SYSTEMS CENTER/STANDARD SYSTEMS GROUP AFC4A: AF COMMAND, CONTROL, COMMUNICATIONS & COMPUTER AGENCY AETC: AIR EDUCATION AND TRAINING COMMAND SA-ALC: SAN ANTONIO AIR LOGISTICS CENTER
--	---

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT C2 SYSTEM				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	31.436	51.485	47.966	31.692	22.495	23.286	23.770

The Theater Battle Management (TBM) Command and Control (C2) Systems procurement line (formerly named Constant Watch) acquires state-of-the-art equipment to satisfy requirements for automated support of C2 functions at both force and wing levels worldwide. TBM encompasses two principal constituent activities: (1) the Contingency Theater Automated Planning System (CTAPS), and (2) the Wing Command and Control System (WCCS). CTAPS provides upgraded shelters and essential computer and communications equipment for Air Operations Centers (AOC), supporting fixed and deployed contingency air operations under a Joint Forces Air Component Commander (JFACC), and the Air Support Operations Centers (ASOC), which are mobile systems that are collocated at US Army Corps level. These capabilities replace cumbersome manual processes and directly support the JFACC in planning and executing the theater air campaign down to the unit level. WCCS similarly provides workstations and local area networks to give wing level commanders and battle staffs a timely and accurate composite picture of wing resources. WCCS supports effective decision-making to increase sortie generation capability.

1. CONTINGENCY THEATER AUTOMATED PLANNING SYSTEM (CTAPS): CTAPS provides a joint standard for Air Tasking Order (ATO) planning and the execution capability of the Air Operations Center (AOC). It permits the Joint Forces Air Component Commander (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 Air Support Operations Center (ASOC) is the critical link to engaged forces and automates the immediate air request process. ASOC moves with the Army Corps and ties the Forward Air Controller (FAC) to the combat operations cell of the AOC. This automation effort enhances the speed and accuracy of responses to Army air support requirements. FY95 funds accelerated the fielding of mission essential AOC Government Furnished Equipment (GFE) hardware at selected US Air Force Europe (USAFE), Pacific Air Forces (PACAF), and CONUS sites. AOC GFE consists of commercial off-the-shelf (COTS) workstations/servers, network equipment and initial software licenses necessary to operate CTAPS. Additionally, FY95 procured 24 communications interface upgrade kits for the Mobile Air Operations Center (procured in this line with prior year funding) that will provide the communications connectivity necessary for joint worldwide operations. FY96 funds (1) continue AOC GFE procurement at CONUS, USAFE and PACAF sites; (2) procure 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) and procure CTAPS GFE for the AF Special Operations Command (AFSOC). FY97 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 in Peoria, IL; (2) begin technical upgrades for all fielded CTAPS workstations; and (3) procure additional CTAPS GFE for AFSOC. FY95-97 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.

	P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 99	
--	----------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT C2 SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

2. **WING COMMAND AND CONTROL SYSTEM (WCCS):** This program provides the Wing Commander a composite picture of wing resources to facilitate sortie generation and reporting. WCCS is the Theater Battle Management Command and Control (C2) system that receives and disseminates C2 information from the theater level down to the wing and unit levels. FY95 funding procures a full complement of equipment for Seymour Johnson AFB, North Carolina, Whiteman AFB, Missouri and Aviano AB, Italy. FY96 funding procures a full complement of equipment for Osan AB, Korea, Langley AFB, Virginia, and a partial complement of equipment for an Air Force Special Operations Command (AFSOC) contingents at Kadena AB, Japan and Osan, Korea. FY97 funding procures a full complement of equipment for Incirlik AB, Turkey, Shaw AFB, South Carolina, and AFSOC at Hurlburt Field, Florida, and a partial complement of equipment for an AFSOC contingent at RAF Mildenhall, United Kingdom. Additionally, FY95-97 funding provides for Type I Training and engineering/program support for WCCS implementation/deployment efforts.

3. **ANG/AFR:**

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	-	0.000	-	0.585
FY96	-	0.175	-	0.400
FY97	-	0.175	-	0.400

	P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 100	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 C2 SYSTEM					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. CTAPS					VAR	N/A	(15,717)	VAR	N/A	(37,011)	VAR	N/A	(32,614)
AOC	A												
a. AOC GFE							11,883			10,828			
b. TECH. UPGR/WKSTNS													12,294
c. TYPE 1 TRAINING							1,071			750			750
d. ENG SUPPORT							1,552			4,099			3,623
ASOC	A												
a. ASOC SHELTERS								7	30	210	5	31	155
b. INTEGRATION & ASSY								7	852	5,967	5	865	4,330
c. ASOC WORKSTNS								VAR	N/A	13,395	VAR	N/A	9,673
d. OTHER GFE								VAR	N/A	1,442	VAR	N/A	1,305
AFSOC GFE	A							VAR	N/A	320	VAR	N/A	484
COMM INTERFACE UPGRADE KITS	A				24	50	1,211						

	P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 101	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/ POPULAR NAME THEATER BATTLE MANAGEMENT C2 SYSTEM					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

2. WCCS	A					(15,719)			(14,474)			(15,352)
a. USAF COMMAND & CONTROL (C2) SYS MODERNIZATION						4,991						2,336
b. PACAF C2 SYSTEM MODERNIZATION									5,702			
c. ACC C2 SYSTEM MODERNIZATION						10,528			5,402			4,536
d. AFSOC MODERNIZATION									593			5,780
e. TYPE I TRAINING						200			400			200
f. ENGR/PROGRAM SPT									2,377			2,500
TOTAL						31,436			51,485			47,966

	P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 102	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

B. APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE

THEATER BATTLE MANAGEMENT C2 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. CTAPS										
ASOC										
A. AOC GFE										
FY95	SUN MICRO SYS/ MT VIEW, CA	OPT/DIQ ¹	AFMC/ESC	JAN 95	JUN 95	VAR	N/A ²			
FY 95	IDI CORP WAKEFIELD, MA	OPT/DIQ ³	AFMC/ESC	MAY 95	JUN 95	VAR	N/A ²			
FY96	UNKNOWN	OPT/DIQ ⁴	AFMC/ESC	APR 96	MAY 96	VAR	N/A ²	YES	NO	
B. TECHNICAL UPGRADES/WKSTNS										
FY97	UNKNOWN	OPT/DIQ ⁴	AFMC/ESC	OCT 96	NOV 96	VAR	N/A ²	YES	NO	
ASOC										
A. ASOC SHELTERS										
FY96	LORAL CMD & CNTL	OPT/FFP ⁵	AFMC/ESC	JUN 96	JUL 96	7	30	YES	NO	
FY97	LORAL CMD & CNTL C-SPRINGS, CO	OPT/FFP ⁵	AFMC/ESC	OCT 96	NOV 96	5	31	YES	NO	
B. INTEGRATION & ASSY										
FY96	LORAL CMD & CNTL	OPT/FP ⁵	AFMC/ESC	MAY 96	JUN 96	7	852	YES	NO	
FY97	LORAL CMD & CNTL C-SPRINGS, CO	OPT/FP ⁵	AFMC/ESC	JAN 97	FEB 97	5	885	YES	NO	
C. ASOC WORKSTNS										
FY96	UNKNOWN	OPT/DIQ ⁴	AFMC/ESC	APR 96	MAY 96	VAR	N/A ²	YES	NO	
FY97	UNKNOWN	OPT/DIQ ⁴	AFMC/ESC	OCT 96	NOV 96	VAR	N/A ²	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST
ITEM NO.

56

PAGE NO.

103

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT C2 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

D. OTHER GFE										
FY 96	UNKNOWN	OPT/IDIQ ⁶	AFMC/ESC	APR 96	MAY 96	VAR ⁷	N/A ⁷	YES	NO	
FY 97	UNKNOWN	OPT/IDIQ ⁶	AFMC/ESC	OCT 96	NOV 96	VAR ⁷	N/A ⁷	YES	NO	
AFSOC GFE										
FY 96	UNKNOWN	OPT/IDIQ ⁴	AFMC/ESC	APR 96	MAY 96	VAR ⁸	VAR ⁸	YES	NO	
FY 97	UNKNOWN	OPT/IDIQ ⁴	AFMC/ESC	OCT 96	NOV 96	VAR ⁸	VAR ⁸	YES	NO	
COMM INTERFACE UPGRADE KITS										
FY95	ARMY/CECOM GTE CORP NEEDHAM, MA	MIPR/OPT/FFP	AFMC/ESC	JUN 95	SEP 95	24 ⁹	50			
2. WCCS										
A. USAFE C2 SYS MODERNIZATION										
FY95	SUN MICRO SYS HAMPTON, VA	OPT/IDIQ ¹⁰	AFMC/ESC	NOV 94	MAR 95	VAR	N/A ¹¹			
FY 95	IDI CORP WAKEFIELD, MA	OPT/IDIQ ³	AFMC/ESC	MAY 95	JUN 95	VAR	N/A ¹¹			
FY97	UNKNOWN	OPT/IDIQ ⁴	AFMC/ESC	OCT 96	MAR 97	VAR	N/A ¹¹	YES	NO	

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

P-1 SHOPP LIST ITEM NO. 56	PAGE NO. 104	Exhibit P-5a Procurement History and Planning
----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE

THEATER BATTLE MANAGEMENT C2 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
B. PACAF C2 SYS MODERNIZATION FY96	SYLVEST MGT SYS LANHAM, MD	OPT/DIQ 12	AFMC/ESC	OCT 95	NOV 95	VAR	N/A 11			
C. ACC C2 SYS MODERNIZATION FY96	SUN MICRO SYS HAMPTON, VA	OPT/DIQ 10	AFMC/ESC	OCT 94	MAR 95	VAR	N/A 11			
FY 95	IDI CORP WAKEFIELD, MA	OPT/DIQ 3	AFMC/ESC	MAY 95	JUN 95	VAR	N/A 11			
FY96	SYLVEST MGT SYS LANHAM, MD	OPT/DIQ 12	AFMC/ESC	MAR 96	APR 96	VAR	N/A 11			
FY97	UNKNOWN	OPT/DIQ 4	AFMC/ESC	OCT 96	MAR 97	VAR	N/A 11	YES	NO	
D. AFSOC MODERNIZATION FY96	UNKNOWN	OPT/DIQ 4	AFMC/ESC	APR 96	MAY 96	VAR	N/A 11	YES	NO	
FY97	UNKNOWN	OPT/DIQ 4	AFMC/ESC	OCT 96	MAR 97	VAR	N/A 11	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST
ITEM NO.
56

PAGE NO.
105

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

B. APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE

THEATER BATTLE MANAGEMENT C2 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. Option to standard workstations contract (C/FFP indefinite delivery/indefinite quantity (ID/IQ)) awarded Jan 91 to Sun Microsystems.
2. Varying unit costs due to number/types of equipment being procured for specific sites.
3. Option to prior year NETCAP contract #F19628-90-d0018 administered by AF Materiel Cmd/Electronics Systems Center (AFMC/ESC), Hanscom AFB, MA.
4. Option to new AFMC/ESC ID/IQ contract for standard workstations scheduled for award in 2nd Quarter/FY96.
5. Option to Theater Battle Mgt R&D contract for Integration & Development awarded in Oct 95 to Loral Command & Control Systems, Colorado Springs, CO.
6. Equipment will be procured through both the new standard workstations contract (Ref footnote 4) and off the GSA schedule.
7. Other GFE includes various support equipment such as peripheral devices, local area networks, printers, communications security equipment, etc. Unit costs vary because of multiple types of equipment being procured:
8. Eight workstations will be procured for the AFSOC along with associated support equipment. Unit costs vary.
9. Number of kits procured.
10. Option to FY91 AFCAC 306 ID/IQ Contract #F19630-91-00005 with Sun Microsystems.
11. Procures various workstations and servers for site specific configurations resulting in various unit costs.
12. Option to AFMC/ESC Sun Workstation and peripheral contract (F196-28-95-c-0222) which fills hardware requirements prior to award of new workstation contract in footnote 4.

D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

P-1 SHOPP LIST
ITEM NO.

56

PAGE NO.

106

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In MM)		43.436	58.906	125.741	111.063	115.204	124.893	123.631

Base Information Infrastructure (BII) fulfills the Air Force's portion of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII). Funding is allocated through several programs to modernize the information transport capability at active duty, Air National Guard (ANG) and Air Force Reserve (AFR) bases worldwide. 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 capacity 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 includes the following components: (1) Digital Switching Systems; (2) Information Transport Systems; (3) CITS Management Subsystem (CMS); (4) Base Network Control Center (BNCC); and (5) Base Information Protect (BIP). Details of each program are outlined below.

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.

Current ANG base infrastructure upgrade efforts meet the criteria of a centrally managed program. FY97 ANG funds previously transferred to the Air Force Operations and Maintenance (O&M) have been reprogrammed back into Other Procurement Air Force for management and execution.

COMBAT INFORMATION TRANSPORT SYSTEMS (CITS)

1. **DIGITAL SWITCHING SYSTEMS (DSS):** DSS 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. FY95/97 funds continue switching systems procurements at multiple Air Force bases.

2. **INFORMATION TRANSPORT SYSTEMS (ITS):** 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 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

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 107	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

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 (desktop computers) to the off-base long haul demarcation point. FY97 DoD Defense Planning Guidance has directed the Air Force to implement ITS at sixty percent of its bases through the year 2001. FY95/96/97 funds continue ITS procurement at multiple Air Force bases.

3. COMBAT INFORMATION TRANSPORT SYSTEM (CITS) MANAGEMENT SUBSYSTEM (CMS): CMS 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. CMS enables the more efficient management of digital switching systems and information transport systems to improve maintenance and operational performance of mission-critical assets. FY95/97 provides funding to install CMS at six and ten Air Force locations, respectively.

4. AIR NATIONAL GUARD (ANG) TELECOMMUNICATIONS SYSTEMS: FY95-97 funds provide new and upgraded Digital Switching Systems (DSS) PBX, and Information Transport Systems (ITS) to migrate toward Asynchronous Transfer Mode (ATM) data (networks; voice, video, imagery, and telemetry systems; and base information protection (BIP) 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.

5. BASE NETWORK CONTROL CENTER (BNCC): FY97 funds procure a network management system for each 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 BNCC 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 security management of base systems from the user's desktop to the off-base long-haul demarcation point. The BNCC 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. FY97 funds begin the procurement of various network management tools at 23 Air Force locations.

6. 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 provide funding for proof-of-concept and engineering integration activities at Langley Air Force Base, Virginia. FY97 funds begin procurement of BIP tools at 22 Air Force locations.

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

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

7. **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 #55 requires connectivity from base civil engineering units to the RPCs. This connectivity will allow CE to continue operation as they transition from proprietary hardware to the DoD-mandated open systems environment. Earlier regionalization efforts for other base activities were accomplished as part of DMRD 924. FY96/97 will begin funding to connect the civil engineers to the RPCs.

8. **AERONAUTICAL SYSTEMS CENTER (ASC) TELEPHONE SWITCH:** FY96 funds will procure a new remote electronic phone switch to support the 1200 new users scheduled to occupy the ASC Acquisition Management Complex Phase II buildings in the Jun-Aug 96 timeframe. 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 FY97 funds are requested.

9. **ANG/AFR:**

	ANG	AFR
	QTY	DOLLARS
	QTY	DOLLARS
FY95	-	13.205
FY96	-	20.512
FY97	-	21.280

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 109	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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

Weapon System Cost Elements	IDENT CODE	FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

CITS													
1. DIGITAL SWITCH SYS (DDS)				VAR	N/A	(21,785)	VAR	N/A	(2,249)	VAR	N/A	(18,373)	
SITE SURVEYS (NORTH AMERICA, PACIFIC & EUROPE)	A			3	N/A	76							
TYPE I TRAINING	A					571							
ENGINEERING CHANGE PROPOSALS	A					50							
USAF ACADEMY CO						43							
IZMIR AB TURKEY	A					1,374							
VANCE AFB OK	A					6,666							
SHAW AFB SC	A					8,005							

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 110	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

CAMP FOSTER JAPAN	A						5,000						
INCIRLIK AB TURKEY	A								1,379				
HURLBURT FIELD FL	A								870				
LANGLEY AFB VA	A												771
CHARLESTON AFB SC	A												3,812
TRAVIS AFB CA	A												3,004
EGLIN AFB FL	A												717
WESTOVER AFB MA	A												991
VANDENBERG AFB CA	A												717
RANDOLPH AFB TX	A												717

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 111	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

SEYMOUR-JOHNSON AFB NC	A												3,499
GRAND FORKS AFB ND	A												1,067
AVIANO AB ITALY	A												915
POPE AFB NC	A												717
HOMESTEAD AFB FL	A												1,446
2. INFORMATION TRANSPORT SYSTEMS (ITS)					VAR	N/A	(5,479)	VAR	N/A	(24,344)	VAR	N/A	(40,770)
SITE SURVEYS (REGIONAL DISTRIBUTION SYSTEM)	A				4	N/A	534						
MILITARY CONTRACT	A						1,945						1,470

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 112	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	-----------------	---

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/ POPULAR NAME BASE INFORMATION INFRASTRUCTURE					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
REQUIREMENTS (MCR) SHAW AFB SC	A						3,000							
LANGLEY AFB VA	A									8,346				
CHARLESTON AFB SC	A									3,000				
MT HOME AFB ID	A									2,000				
INCIRLIK AB TURKEY	A									2,498				
KADENA AB JAPAN	A									4,100				
HURLBURT FLD FL	A									4,400				
TRAVIS AFB CA	A													7,135
EGLIN AFB FL	A													7,628
WESTOVER AFB MA	A													2,196

P-1 SHOPP LIST
ITEM NO.
58

PAGE NO.
113

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

VANDENBERG AFB CA	A												3,225	
RANDOLPH AFB TX	A												2,009	
SEYMOUR-JOHNSON AFB NC	A												5,298	
GRAND FORKS AFB ND (PHASES 1)	A												1,456	
AVIANO AB ITALY (PHASES 1&2)	A												6,076	
POPE AFB NC	A												4,277	
3. CITS MANAGEMENT SUBSYSTEM (CMS)	A				6 ¹	N/A	2,967					10 ¹	N/A	4,910

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 114	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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

Weapon System Cost Elements	IDENT CODE	FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

4. ANG TELECOMMUNICATIONS SYSTEMS	A				VAR	N/A	13,205	VAR	N/A	20,512	VAR	N/A	21,280
5. BASE NETWORK CONTROL CENTER (BNCC)	A										23 ¹	N/A	14,950
6. BASE INFORMATION PROTECT (BIP)	A							1 ¹	N/A	930	22 ¹	N/A	16,930
7. CE RPC CONNECTIVITY								VAR	N/A	8,891	VAR	N/A	8,528
8. ASC TELE SWITCH	A							VAR	N/A	1,980			
TOTAL							43,436			58,906			125,741

¹ Number of Locations

	P-1 SHOPP LIST ITEM NO. 58	PAGE NO. 115	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

COMBAT INFO TRANSPORT SYS (CITS)										
1. DIGITAL SWITCHING SYSTEMS										
FY96										
SITE SURVEYS	ARMY GTE GOVT SYS NEEDHAM, MA	MIPR/OPT/ FFP ¹	AFMC/ESC	AUG 95	VAR ²	3	N/A ³			
TYPE I TRAINING	ARMY GTE GOVT SYS	MIPR/OPT/ FFP ¹	AFMC/ESC	AUG 95	N/A	N/A	571			
ENGINEERING CHANGE PROPOSALS	ARMY GTE GOVT SYS	MIPR/OPT/ FFP ¹	AFMC/ESC	AUG 95	JAN 96	N/A	50			
USAF ACADEMY CO	ALCATEL ATLANTA, GA	C/FFP	AFMC/ESC	JUN 95	VAR ⁴		43			
IZMIR, TURKEY	NETAS GAZIOSMANPASA BULGARIA	C/FFP	AFMC/ESC	JUN 95	VAR ⁴		1,374			
VANCE AFB OK	ARMY GTE GOVT SYS	MIPR/OPT/ FFP ¹	AFMC/ESC	AUG 95	VAR ⁴		6,666			
SHAW AFB SC	ARMY GTE GOVT SYS	MIPR/OPT/ FFP ¹	AFMC/ESC	AUG 95	VAR ⁴		8,005			

D. REMARKS
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 116	Exhibit P-5a Procurement History and Planning
----------------------------------	-----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

CAMP FOSTER JAPAN FY96	NORTHERN TELCOM FEDERAL SYS RICHARDSON TX	C/FFP	AFMC/ESC	APR 95	VAR ⁴		5,000			
INCIRLIK AB TURKEY	NTFS RICHARDSON, TX	OPT/FFP ⁵	AFMC/ESC	JUN 96	VAR ⁴		1,379	YES	NO	
HURLBURT AFB FL FY97	NORTHERN TELCOM	C/FFP	AFMC/ESC	MAY 96	VAR ⁴		870	YES	NO	
LANGLEY AFB, VA	ARMY GTE GOVT SYS NEEDHAM, MA	MIPR/OPT/FFP ¹	AFMC/ESC	NOV 96	VAR ⁴		771	YES	NO	
CHARLESTON AFB SC	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	NOV 96	VAR ⁴		3,812	YES	NO	
TRAVIS AFB CA	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	DEC 96	VAR ⁴		3,004	YES	NO	
EGLIN AFB FL	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	DEC 96	VAR ⁴		717	YES	NO	

D. REMARKS
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

WESTOVER AFB MA	ARMY GTE GOVT SYS NEEDHAM, MA	MIPR/OPT/FFP ¹	AFMC/ESC	JAN 97	VAR ⁴		991	YES	NO	
VANDENBERG AFB CA	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	JAN 97	VAR ⁴		717	YES	NO	
RANDOLPH AFB TX	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	FEB 97	VAR ⁴		717	YES	NO	
SEYMOUR-JOHNSON AFB NC	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	FEB 97	VAR ⁴		3,499	YES	NO	
GRAND FORKS AFB ND	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	MAR 97	VAR ⁴		1,067	YES	NO	
AVIANO AB ITALY	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	MAR 97	VAR ⁴		915	YES	NO	
POPE AFB NC	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	APR 97	VAR ⁴		717	YES	NO	
HOMESTEAD AFB FL	ARMY GTE GOVT SYS	MIPR/OPT/FFP ¹	AFMC/ESC	APR 97	VAR ⁴		1,446	YES	NO	

D. REMARKS NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. .118	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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. INFO TRANSPORT SYS (ITS)										
FY96										
SITE SURVEYS	GTE SERVICES FREDERICK, MD	OPT/FFP ⁶	AFMC/ESC	APR 95	VAR ²	4	VAR ³			
MIL CONTRACT REQ 17	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	APR 95	MAY 95		1,945			
SHAW AFB, SC	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	APR 96	VAR ⁴		3,000	YES	NO	
FY96										
LANGLEY AFB VA	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	DEC 95	VAR ⁴		8,346			
CHARLESTON SC	FEDSIM WASH DC	OPT/FFP ⁷	AFMC/ESC	DEC 95	VAR ⁴		3,000			
MT HOME AFB ID	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	FEB 96	VAR ⁴		2,000			
INCIRLIK AB TURKEY	UNKNOWN	TBD ⁸	AFMC/ESC	AUG 96	VAR ⁴		2,498	YES	NO	
KADENA AB JAPAN	HQ PACAF- ORGANIC	WORK PROJECT	AFMC/ESC	NOV 95	VAR ⁵		4,100			
HURLBURT AFB FL	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	MAR 96	VAR ⁵		4,400			

D. REMARKS
 NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
 DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

FY97										
MIL CONTRACT REQ ⁹	GTE SERVICES	OPT/FFP ⁶	AFMC/ESC	NOV 96	DEC 96	N/A	1,470	YES	NO	
TRAVIS AFB CA	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	NOV 96	VAR ⁴		7,135	YES	NO	
EGLIN AFB FL	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	NOV 96	VAR ⁴		7,628	YES	NO	
WESTOVER AFB MA	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	DEC 96	VAR ⁴		2,196	YES	NO	
VANDENBERG AFB CA	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	DEC 96	VAR ⁴		3,225	YES	NO	
RANDOLPH AFB TX	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	JAN 97	VAR ⁴		2,009	YES	NO	
SEYMOUR JOHNSON AFB NC	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	JAN 97	VAR ⁴		5,298	YES	NO	
GRAND FORKS AFB ND (PHASE 1)	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	FEB 97	VAR ⁴		1,456	YES	NO	
AVIANO AB ITALY (PHASE 1& 2)	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	FEB 97	VAR ⁴		6,076	YES	NO	
POPE AFB NC	UNKNOWN	OPT/FFP ¹⁰	AFMC/ESC	MAR 97	VAR ⁴		4,277	YES	NO	

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 120	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

3. CITS MANAGEMENT SUBSYSTEM (CMS)										
FY95	ANSTEC FAIRFAX VA	C/FFP 11	AFMC/ESC	JUN 95 ¹²	AUG 95	6	VAR ³			
FY97	ANSTEC	OPT/FFP 11	AFMC/ESC	OCT 96 ¹²	JUN 97	10	VAR ³	YES	NO	
4. ANG TELECOMMUNICATIONS SYSTEMS										
FY96										
ELLINGTON ANGB TX (SWITCH)	TENMARK NASHVILLE TN	OPTION/FP 13	ANG/SM-ALC	FEB 95	APR 95		240			
SPRINGFIELD ANGB IL (SWITCH)	TENMARK	OPTION/FP 13	ANG/SM-ALC	APR 95	JUN 95		235			
CONVENTRY ANGB RI (SWITCH)	AT&T INGLEWOOD CO	OPTION/FP 14	ANG/SM-ALC	JAN 95	MAR 95		235			
SMALL ANGB SWITCH UPGRADES	AT&T	OPTION/FP 14	HQ ANG	NOV 94	JUL 95	29 ¹⁵	47			
ANG-WIDE NETWORK MANAGEMENT	PRESIDIO LANHAM, MD	OPTION/FP 16	HQ ANG	NOV 94	JUL 95	86 ¹⁵	72			

D. REMARKS
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 121	Exhibit P-5a Procurement History and Planning
--	----------------------------------	-----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				.C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

WARRIOR NETWORK	AT&T FEDERAL SYS SILVER SPRING MD	OPT/FFP 17	HQ ANG	MAY 95	JUL 95	138 ¹⁵	33			
MC GEE-TYSON TN WARNET UPLINK	AT&T FEDERAL SYS	OPT/FFP 17	HQ ANG	MAY 95	JUL 95		386			
FY96										
BOISE ANGB ID	AT&T INGLEWOOD CO	OPT/FP 14	HQ ANG	APR 96	JUL 96		650	YES	NO	
SIoux CITY IA	AT&T	OPT/FP 14	HQ ANG	APR 96	JUL 96		150	YES	NO	
FRESNO ANGB CA	TENMARK NASHVILLE TN	OPT/FP 13	ANG/SM-ALC	MAR 96	MAY 96		150			
KULLIS ANGB AK	AT&T	OPT/FP 14	HQ ANG	JUL 96	SEP 96		465	YES	NO	
SIoux FALLS ANGB SD	TENMARK	OPT/FP 13	ANG/SM-ALC	APR 96	JUN 96		150	YES	NO	
YEAGER ANGB WV	TENMARK	OPT/FP 13	ANG/SM-ALC	APR 96	JUN 96		150	YES	NO	
FT SMITH ANGB AR	TENMARK	OPT/FP 13	ANG/SM-ALC	MAY 96	JUL 96		150	YES	NO	
GREATER PEORIA IL	TENMARK	OPT/FP 13	ANG/SM-ALC	JUN 96	AUG 96		150	YES	NO	

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 122	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	-------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

HENSLEY ANGB TX	TENMARK NASHVILLE, TN	OPT/FP 13	ANG/SM-ALC	JUL 96	SEP 96		150	YES	NO	
PORTLAND IAP OR	AT&T INGLEWOOD, CA	OPT/FP 14	HQ ANG	SEP 96	NOV 96		240	YES	NO	
MAUI ANG HI	AT&T	OPT/FP 14	HQ ANG	APR 96	JUL 96		73	YES	NO	
ALPENA ANGB MI	AT&T	OPT/FP 14	HQ ANG	APR 96	JUL 96		152	YES	NO	
ANG SMALL SWITCH UPGRADES	AT&T	OPT/FP 14	HQ ANG	APR 96	JUL 96	74 15	18	YES	NO	
ANG-WIDE VOICE/VIDEO WIRE FIBER CONVERSION	DICHROMA FALLS CHURCH VA	OPT/FP 7	HQ ANG	APR 97	AUG 97	8 15	279	YES	NO	
ANG-WIDE LAN COMP BUY	PRESIDIO LANHAM, MD	OPT/FP 16	HQ ANG	MAR 96	JUL 96	70 15	63			
ANG ROUTER	PRESIDIO	OPT/FP 16	HQ ANG	MAR 96	JUL 96	60 15	17			

D. REMARKS
 NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
 DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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-WIDE IMAGING SYSTEM	AMERIND INC. ALEXANDRIA, VA	OPT/FP 18	HQ ANG	MAR 96	SEP 96	10 15	400			
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	C/FFP	HQ ANG	MAR 96	SEP 96	86 15	14			
ANG-WIDE DEPLOYABLE NETWORK BNCC	DIEZ LAKE RIDGE, VA	C/FFP	HQ ANG	FEB 96	JUN 96		206			
WARRIOR NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP 17	HQ ANG	MAY 96	JUL 96	86 15	31	YES	NO	
ANDREWS ANGB MD WARNET UPLINK	AT&T FEDERAL SYS	OPT/FFP 17	HQ ANG	MAY 96	JUL 96		405	YES	NO	
TYNDALL AFB FL WARNET UPLINK	AT&T FEDERAL SYS	OPT/FFP 17	HQ ANG	MAY 96	JUL 96		405	YES	NO	
FY97										
ANG-WIDE IMAGING SYSTEM	AMERIND INC. ALEXANDRIA, VA	OPT/FP 18	HQ ANG	JAN 97	AUG 97	22 15	400	YES	NO	
ANG-WIDE LAN COMP BUY	PRESIDIO LANHAM, MD	OPT/FP 16	HQ ANG	FEB 97	AUG 97	86 15	56	YES	NO	

D. REMARKS
 NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 124	Exhibit P-5a Procurement History and Planning
--	----------------------------------	-----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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-WIDE VOICE/VIDEO WIRE FIBER CONVERSION	DICHROMA FALLS CHURCH, VA	OPT/FP 7	HQ ANG	MAR 97	AUG 97	18 15	84	YES	NO	
ANG SMALL SWITCH UPGRADES	AT&T INGLEWOOD, CA	OPTION/FP 14	HQ ANG	JAN 97	JUN 97	75 15	21	YES	NO	
ANG SMALL SWITCH UPGRADES	TENMARK NASHVILLE, TN	OPTION/FP 13	ANG/SM-ALC	JAN 97	JUN 97	43 15	34	YES	NO	
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	C/FFP	HQ ANG	DEC 96	FEB 97	86 15	10	YES	NO	
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRINGS, MD	OPTIONS/FP 17	HQ ANG	JAN 97	MAR 97	86 15	23	YES	NO	
ANG-WIDE DEPLOYABLE NETWORK BNCC	DIEZ LAKE RIDGE, VA	C/FFP	HQ ANG	JUN 97	AUG 97		276	YES	NO	

D. REMARKS
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

BASE NET CONTROL CTR (BNCC) FY97	UNKNOWN	C/FFP	AFMC/ESC	JAN 97 ¹²	APR 97	23 ¹⁹	N/A ³	YES	NO
6. BASE INFORMATION PROTECT FY96 FY97	UNKNOWN UNKNOWN	C/DIQ OPT/DIQ	AFMC/ESC AFMC/ESC	MAY 96 JAN 97	JAN 97 APR 97	1 ¹⁹ 22 ¹⁹	N/A ³ N/A ³	YES YES	NO NO
7. CE RPC CONNECTIVITY FY96 FY97	MULTIPLE ²⁰ MULTIPLE ²⁰	C/FFP C/FFP	HQ AFCESA ²¹ HQ AFCESA ²¹	JAN 96 ²⁰ JAN 97 ²⁰	MAR 96 ²⁰ MAR 97 ²⁰	VAR VAR	N/A ³ N/A ³	YES	NO
8. ASC TELEPHONE SWITCH FY96	NTFS RICHARDSON TX	OPT/FP ⁵	AFMC/SM-ALC	FEB 96	APR 96		1980		

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 126	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

REMARKS: (FOOTNOTE)

1. Option to FY91 Army contract awarded to GTE Government Systems, Needham, MA.
2. The contractor will normally perform a site survey of the base programmed for the following year in order to facilitate delivery order award in that year.
3. Unit costs are site dependent.
4. Delivery dates range 12-24 months after order is placed.
5. Option off Scope Dial contract administered by Sacramento ALC, McClellan AFB, CA.
6. 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.
7. Option off GSA schedule.
8. Awaiting verification of Host Nation (HN) approval. Contract method and type will be determined after HN approval.
9. Military Contract Requirements (MCR) are non-recurring charges required to adapt off-the-shelf equipment for military requirements such as multi-level precedence preemption required for command and control
10. 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 organic capability.
11. The Air Force awarded an eight-year, 8A (Small Business) requirements contract in Jun 95 to ANSTEC, Fairfax, VA, for a turnkey hardware/software integrated CMS.
12. Award date reflects date of earliest order placement. Subsequent systems will be ordered throughout the year.
13. Option to regionalized GSA competitive contract for switches with Tennmark, Nashville, TN.
14. GSA schedule 58, Part IV, is a contract negotiated annually by GSA with AT&T.
15. Number of ANG locations.
16. The ANG awarded a 5-year 8a (Small Business) contract on 30 Sep 93 to procure local area network (LAN) components and install LANs at the ANG Readiness Center, Andrews ANGB, MD, and other ANG locations throughout the United States and US territories.
17. 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 will provide information distribution network capability to support videoteteletraining ,e.g., distant learning, and video teleconferencing ,e.g., staff meeting/town hall, services throughout the ANG.
18. The ANG awarded a 5-year 8A (Small Business) contract in Mar 94 to procure automated information system services and hardware/software items to include automated management and imagery systems.

D. REMARKS			
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 127	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION 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

19. Number of locations being upgraded.

20. 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.

21. AFCESA: Air Force Civil Engineer Support Agency.

D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO 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. 58	PAGE NO. 128
--	------------------------

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE USCENTCOM				
		FY 1995	FY 1996	FY 1997	FY 1198	FY 1999	FY2000	FY 2001
QUANTITY								
COST (In Mil)		2.790	3.279	2.298	2.764	3.230	4.652	4.756

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:** FY95/96 funds procure essential CINCCENT command and control systems in support of deployed forces as well as garrison-based contingency and peacetime operations. Funding provides for modernization of the Command Automation System (CAS) which includes integration and implementation of the Global Command and Control System (GCCS), and the upgrade and modernization of the Modern Aids to Planning Program (MAPP). FY97 and subsequent funding has been transferred to the Air Force Operations and Maintenance (O&M) Appropriation in accordance with the new DoD expense/investment policy.

2. **JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE):** FY95/96/97 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**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		.225	-		0.000
FY96	-		.400	-		0.000
FY97	-		1.867	-		0.000

	P-1 SHOPP LIST ITEM NO. 59	PAGE NO. 129	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			USCENTCOM					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	(915)	VAR	N/A	(950)			
A. CMD AUTOMATION SYSTEM (CAS)	A						564			570			
B. MODERN AIDS TO PLANNING PROGRAM (MAPP)	A						351			380			
2. JOINT COMM SUPPORT ELEMENT	A				VAR	N/A	1,875*	VAR	N/A	2,329*	VAR	N/A	2,298*
TOTAL							2,790			3,279			2,298

* Represents The Air Force's 1/3 Share Of Tri-Service Funding

	P-1 SHOPP LIST ITEM NO. 59	PAGE NO. 130	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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. COMMAND AUTOMATION SYS (CAS)										
FY95	MULTIPLE ¹	C/FFP	HQ CENTCOM	MULTI ¹	MULTI ¹	VAR ¹	N/A ¹			
FY96	MULTIPLE ¹	C/FFP	HQ CENTCOM	MULTI ¹	MULTI ¹	VAR ¹	N/A ¹			
B. MODERN AIDS TO PLANNING PROGAM (MAPP)										
FY95	MULTIPLE ¹	C/FFP	HQ CENTCOM	MULTI ¹	MULTI ¹	VAR ¹	N/A ¹			
FY96	MULTIPLE ¹	C/FFP	HQ CENTCOM	MULTI ¹	MULTI ¹	VAR ¹	N/A ¹			
2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)										
FY95	MULTIPLE ¹	C/FFP	AFMC/ESC	MULTI ¹	MULTI ¹	VAR ¹	N/A ¹			
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	

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.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATED TELECOMMUNICATIONS PROGRAM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		26.350	17.933	19.173	19.023	20.958	20.835	21.156

This program continues acquisition of equipment in support of Air Force requirements for the Defense Information System Network (DISN), the Defense Message System (DMS), SECURE VOICE, and Red Switch networking. They provide essential capabilities to carry on the wartime and peacetime missions of the Air Force.

1. **DEFENSE INFORMATION SYSTEM NETWORK (DISN) EQUIPMENT:** These funds will upgrade the interface to the DISN Air Force-wide. The Air Force DDN/DISN connectivity, e.g., routers and modems, provide an interface on each base to the DISN long-haul communications. These upgrades will allow additional capacity to satisfy base-level connection requirements which will reduce the AF DISN connection charges. FY95 completes upgrades to locations that interface with DISN. No FY97 funding requested.

2. **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 shut down of the AUTODIN. FY95 funds were applied to the DMS-GOSIP message contract to provide writer-to-reader message service to an initial 27,000 of the 231,000 projected users. 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. FY95 funding also provided base-level end-to-end network connectivity at 30 bases to support DMS. FY96 funds provide writer-to-reader service for another 22,000 users and network connectivity at ten bases. FY97 funding will continue message service for another 65,000 users and network connectivity at 25 bases.

3. **RED SWITCH NETWORK (RSN):** These funds support the Air Force portion of the Defense RSN (DRSN). DRSN is a significant part of the Joint Chief of Staff's (JCS) secure voice systems strategy currently providing secure command and control telephone capabilities to US CINCs, selected wing level command and control centers and other JCS designated locations. FY95 funds procured hardware platforms for the network management system and network security authentication systems. No FY97 funding requested.

	P-1 SHOPP LIST ITEM NO. 60	PAGE NO. 132	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATED TELECOMMUNICATIONS PROGRAM					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. DISN EQUIPMENT	A				VAR	N/A	1,486						
2. DMS-AF					VAR	N/A	(24,062)	VAR	N/A	(17,933)	VAR	N/A	(19,173)
DMS-GOSIP	A						12,500			10,000			10,000
DMS CONNECTIVITY	A				30 *		11,562	10 *		7,933	25 *		9,173
3. RED SWITCH NETWORK					VAR	N/A	(802)						
HARDWARE	A						352						
PLATFORMS													
AUTOMATIC SEC							450						
AUTHENTICATION													
TOTAL							26,350			17,933			19,173

* Number of bases being upgraded.

	P-1 SHOPP LIST ITEM NO. 60	PAGE NO. 133	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

1. DISN EQUIPMENT										
FY95	MULTIPLE ¹	C/FP	AFMC/ESC-SSG	MULTI ¹	MULTI ¹	VAR ¹	N/A ²			
2. DMS-AF										
DMS-GOSIP										
FY95	LORAL FED SYS	C/FP	AFMC/ESC-SSG	MAY 95	NOV 95	VAR	N/A ²			
FY96	LORAL FED SYS	OPTION/FFP	AFMC/ESC-SSG	DEC 95	JUL 96	VAR	N/A ²			
FY97	LORAL FED SYS, MANASSAS, VA	OPTION/FFP	AFMC/ESC-SSG	OCT 96	JAN 97	VAR	N/A ²	YES	NO	
DMS CONNECTIVITY										
FY95	DISA/COMM NETWORK SYSTEMS	MIPR/OPT ³	AFMC/ESC-SSG	OCT 94	JAN 95	30 ⁴	N/A ²			
FY96	DISA/COMM NETWORK SYSTEMS	MIPR/OPT ³	AFMC/ESC-SSG	DEC 95	APR 96	10 ⁴	N/A ²			
FY97	DISA/COMM NETWORK SYSTEMS INGLEWOOD, CO	MIPR/OPT ³	AFMC/ESC-SSG	OCT 96	FEB 97	25 ⁴	N/A ²	YES	NO	

D. REMARKS		
1. VARIOUS SYSTEM COMPONENTS BEING PROCURED OFF MULTIPLE CONTRACTS ON THE COMPETITIVE GSA SCHEDULE.		
2. UNIT COSTS ARE DEPENDENT ON INDIVIDUAL SITE CONFIGURATIONS.		
3. OPTION TO DISA FIRM FIXED PRICE CONTRACT DCA200-94-G-0008 AWARDED JULY 94 TO COMMUNICATIONS NETWORK SYSTEMS CORP.		
4. NUMBER OF BASES BEING UPGRADED. UNIT COSTS VARY. AMOUNT OF NETWORK CONNECTIVITY BEING INSTALLED VARIES WITH THE SIZE OF EACH BASE.		
P-1 SHOPP LIST ITEM NO. 60	PAGE NO. 134	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

3. RED SWITCH NETWORK (RSN) HARDWARE PLATFORMS FY95	ELECTRO SPACE SYSTEMS INC RICHARDSON, TX	C/FFP	HQ AFC4A	DEC 94	MAY 95	VAR	N/A ²			
AUTOMATIC SECURITY AUTHENTICATION FY95	ELECTRO SPACE SYSTEMS INC RICHARDSON, TX	C/FFP	HQ AFC4A	DEC 94	MAY 95	VAR	N/A ²			

D. REMARKS		
1. VARIOUS SYSTEM COMPONENTS BEING PROCURED OFF MULTIPLE CONTRACTS ON THE COMPETITIVE GSA SCHEDULE.		
2. UNIT COSTS ARE DEPENDENT ON INDIVIDUAL SITE CONFIGURATIONS.		
3. OPTION TO DISA FIRM FIXED PRICE CONTRACT DCA200-94-G-0006 AWARDED JULY 94 TO COMMUNICATIONS NETWORK SYSTEMS CORP.		
4. NUMBER OF BASES BEING UPGRADED. UNIT COSTS VARY. AMOUNT OF NETWORK CONNECTIVITY BEING INSTALLED VARIES WITH THE SIZE OF EACH BASE.		
P-1 SHOPP LIST ITEM NO. 60	PAGE NO. 135	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE BASED IR SENSOR PROGRAM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		-	-	25.939	41.548	19.865	9.704	11.123

The Space-Based Infra-Red Sensor (SBIRS) Program is the designated replacement for the Defense Support Program (DSP). DSP is a mature, operational early warning system deployed to warn the National Command Authorities (NCA), theater commanders, and Allied nations of the ballistic missile attack and nuclear detonations. DSP is being replaced by a follow-on program to satisfy current and future warfighting requirements and to take advantage of current technologies. These requirements meet the Defense Intelligence Agency (DIA) validated threat. The current DSP ground segment, although mature, has been experiencing severe supportability problems which are leading to increased operational outages and increased support costs. SBIRS will develop a new and improved infrared satellite sensor and a modern, sustainable ground architecture. The SBIRS program entered the pre-engineering and manufacturing development (EMD) phase for the space and ground segments in the summer of 1995. This pre-EMD phase has two competing contractors which will culminate with a down-select to a single contractor for the EMD phase in October 1996. The winning contractor will enter EMD and complete development and fielding of the SBIRS space and ground segment hardware. The fielding of the SBIRS ground segment will be phased: 1) The first phase, capable of performing the DSP strategic and ALERT theater missions, will consolidate DSP mission data processing in the CONUS. This consolidation will allow for the closure of two overseas ground processing sites and the inclusion of two relay ground sites. Included in this phase will be a thin-line survivable back-up processing capability which will be installed at a (to be determined) CONUS location. 2) The second phase will add hardware/software to the existing ground stations and upgrade the increment 1 thin-line survivable back-up processing capability to allow for processing of the SBIRS high satellites to meet strategic, theater, technical intelligence and battlespace characterization missions. 3) The third phase will add hardware/software to the existing ground stations to allow for processing of the SBIRS low satellites. The early operational need for the SBIRS first phase to perform the DSP mission by FY99 requires the acquisition of ground station and Relay Ground Station (RGS) production communications and processing equipment hardware starting in FY97. The SBIRS Capstone Requirements Document (CRD) was validated by the Joint Requirements Oversight Council (JROC) in Jan 95 and the SBIRS concept was approved by the Defense Resources Board in September 1994. SBIRS thin-line survivability requirements were reviewed and changes recommended at the January 1996 Senior Warfighter's Conference.

SBIRS GROUND SYSTEM:

RELAY GROUND STATION (RGS): FY97 funds will procure ground station communications electronics and processing hardware necessary to equip two overseas RGS's located at classified sites. The equipment will perform satellite telemetry, tracking and commanding (TT&C) functions and relay DSP constellation data to the CONUS ground station.

	P-1 SHOPP LIST ITEM NO. 64	PAGE NO. 136	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/ POPULAR NAME SPACE BASED IR SENSOR PROGRAM					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

SBIRS GROUND SYSTEM

RELAY GROUND STATIONS (RGS) ¹
RGS - ATLANTIC
RGS - PACIFIC

A

2² N/A 25,939

1 N/A 8,650³

1 N/A 17,289⁴

TOTAL

25,939

1. SBIRS is currently in pre-EMD phase with two competing contractors. Budget documentation is based on separate Govt estimate.
2. Number of Sites
3. Govt estimate assumes interim equipment staged to temporary European Ground Stn while reusing existing antenna equipment. Equipment includes communications and processing systems.
4. Communications and processing equipment plus antenna infrastructure at new Pacific location.

	P-1 SHOPP LIST ITEM NO. 64	PAGE NO. 137	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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

C. P-1 ITEM NOMENCLATURE
SPACE BASED IR SENSOR 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
SBIRS GROUND SYSTEM RELAY GROUND STATIONS FY97	UNKNOWN ¹	C/CPAF	AFMC/SMC	OCT 96	JAN 98	2 ²	VAR ³	NO	NO	

D. REMARKS

1. TWO PRIME CONTRACTORS WILL COMPLETE THE GROUND SYSTEM DESIGN FOR THE SBIRS FIRST PHASE (DSP CONSOLIDATION) DURING THE PRE-EMD PHASE OF THE PROGRAM. FINAL SYSTEM CONFIGURATION WILL NOT BE DETERMINED UNTIL THE WINNING CONTRACTOR IS SELECTED.
2. NUMBER OF SITES.
3. CONTRACT PROVIDES MULTIPLE HARDWARE ITEMS AT DIFFERING UNIT COSTS. UNIT COSTS VARY BY SITE AND BY TYPE OF COMPONENTS BEING PROCURED.

P-1 SHOPP LIST
ITEM NO.

64

PAGE NO.

138

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NAVSTAR GPS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		3.749	1.012	3.308	3.153	4.125	4.026	4.070

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 five 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 operations to provide precise positioning in the featureless desert. The control network daily updates the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters (spherical error) probable 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 peculiar support equipment, production unit testing, and contractor technical support. FY95/97 funding continues 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 7639 units; 5927 will have been procured through FY95, 6739 through FY96, and 7639 through FY97, completing PLGR I Air Force requirements. Additionally, FY97 funding will provide for 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.

	P-1 SHOPP LIST ITEM NO. 65	PAGE NO. 139	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			NAVSTAR GPS					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
PLGR	A				VAR	N/A	(3,749)	VAR	N/A	(1,012)	VAR	N/A	(3,308)
PLGR/VEHICLE INSTALLATION SETS					795	1,300	1,033	812	1,200	975	900	1,200	1,080
ASSOCIATED PLGR SUPPORT COSTS							2,716						610
TECH SAMPLE TEST BUY													208
TECH SAMPLE TESTING													990
PROGRAM SUPPORT										37			420
TOTAL							3,749			1,012			3,308

	P-1 SHOPP LIST ITEM NO. 85	PAGE NO. 140	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	ROCKWELL COLLINS	OPTION/FFP ¹	AFMC/SMC	JAN 95	JUL 95	795	1,300 ²			
FY96	ROCKWELL COLLINS	OPTION/FFP ¹	AFMC/SMC	MAR 96	SEP 96	513	1,200 ³			
FY96 ⁴	ROCKWELL COLLINS	OPTION/FFP ¹	AFMC/SMC	JUL 96	JAN 97	299	1,200 ³	YES	NO	
FY97	ROCKWELL COLLINS CEDAR RAPIDS, IA	OPTION/FFP ¹	AFMC/SMC	JAN 97	JUL 97	900	1,200 ³	YES	NO	
TECH SAMPLE TESTING	UNKNOWN	C/FP	AFMC/SMC	MAR 97	JUL 97	N/A	N/A	NO	YES	OCT 96

D. REMARKS

- OPTION TO FY93 COMPETITIVE FIRM FIXED CONTRACT TO ROCKWELL COLLINS.
- THE FY95 UNIT COST REPRESENTS THE AF COST OF THE BASIC PLGR AND COMPONENTS AND ALSO INCLUDES THE COST OF DATA AND WARRANTIES.
- FY96/97 UNIT COSTS DISPLAYED ABOVE ARE THE AVERAGE AIR FORCE AND ARMY COST OF THE BASIC PLGR AND ITS COMPONENTS.
- SECOND FY96 GPS UE BUY SATISFIES INCREASED USER REQUIREMENT, BUY FUNDED BY REDUCED ASSOCIATED PLGR (ACCESSORIES) COSTS

P-1 SHOPP LIST
ITEM NO.

65

PAGE NO.

141

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE DEFENSE METEOROLOGICAL SATELLITE PROGRAM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		14.526	13.985	10.533	12.841	14.028	10.583	9.055

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 remoting capability. Prior year funds procured seven production STTs. FY95-97 funds procure an additional 45, 51 and 34 terminals, respectively for a total of 137. The total requirement is for 112 terminals (plus 2 for training) in support of Air Force operations and 68 terminals for the Air Force weather teams assigned to Army units.

ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		0.000	-		0.000
FY96	-		0.720	-		0.000
FY97	-		0.925	-		0.000

	P-1 SHOPP LIST ITEM NO. 66	PAGE NO. 143	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			DEFENSE METEOROLOGICAL SATELLITE PROGRAM					See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

TACTICAL DATA RECEIPT/PROCESSING													
SM TACTICAL TERMINAL EQUIPMENT	A				VAR 45	N/A N/A	(14,526) 12,873	VAR 51	N/A N/A	(13,985) 12,615	VAR 34	N/A N/A	(10,533) 8,764
NON-RECURRING COSTS							308			295			315
ENGINEERING/ PRODUCTION SPT							1,345			1,075			1,454
TOTAL							14,526			13,985			10,533

	P-1 SHOPP LIST ITEM NO. 66	PAGE NO. 144	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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)

FY95 (BASIC)
(ENHANCED)
(JOINT TASK FORCE)
FY96 (BASIC)
(ENHANCED)
FY97 (BASIC)
(ENHANCED)

HARRIS CORP

HARRIS CORP

HARRIS CORP
MELBOURNE, FL

OPT/FFP ¹

OPT/FFP ¹

OPT/FFP ³

AFMC/SMC

AFMC/SMC

AFMC/SMC

JUL 95

DEC 95

NOV 96

AUG 96 ⁴

NOV 96 ⁴

AUG 97 ⁴

6
33
6
12
39
6 ³
28 ³

210 ²
271 ²
445 ²
203 ²
261 ²
210 ^{2/3}
265 ^{2/3}

YES NO

D. REMARKS

- STT BASIC CONTRACT (IFO 4701-04-C-0010) WAS AWARDED ON 15 JUN 94.
- UNIT COSTS VARY DUE TO DIFFERENT CONFIGURATIONS OF STT BEING PROCURED. UNIT COSTS HAVE INCREASED DUE TO ENGINEERING CHANGES (SEE FOOTNOTE 4) NECESSITATED BY DEFICIENCIES DISCOVERED DURING INITIAL OPERATIONAL TEST & EVALUATION (IOT&E).
- FY97 IS BEING NEGOTIATED AS AN OPTION EXTENSION TO THE BASIC FY94 CONTRACT WITH HARRIS CORP. FY97 UNIT COSTS ARE ESTIMATES AND QUANTITIES MAY NEED TO BE ADJUSTED AFTER CONTRACT FINALIZATION. NEGOTIATIONS ARE EXPECTED TO BE COMPLETE BY SEP 96.
- IN JUN 95, DEFICIENCIES DISCOVERED DURING IOT&E TESTING NECESSITATED ENGINEERING CHANGES IN THE STT IN ORDER TO MEET USER REQUIREMENTS. INCORPORATION OF THESE ENGINEERING CHANGES HAS DELAYED EQUIPMENT DELIVERIES.

P-1 SHOPP LIST
ITEM NO.
66

PAGE NO.
145

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE NUDET DETECTION SYSTEM (NDS)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)		-	5.580	2.085	4.308	1.324	1.317	1.213

The Nuclear Detonation (NUDET) Detection System (NDS) provides a worldwide highly survivable capability to detect, locate, and report nuclear detonations in the earth's atmosphere or in near space in near real-time. 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). 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 the 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 upcoming 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 Radar Data Units (ARDU) are the only operational systems that could detect, locate, and identify an atmospheric or space NUDET. The FY96 funds are required to support 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 procure keyboards and site automated data processing (ADP) equipment. The FY97 funds for the ICADS will procure 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.

	P-1 SHOPP LIST ITEM NO. 67	PAGE NO. 147	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		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	5,310	VAR	N/A	1,500
ADRU HARDWARE UPGRADE	A							VAR	N/A	270	VAR	N/A	585
TOTAL										5,580			2,085

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1986

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 LABS	MIPR/OPT ¹	AFMC/SMC	FEB 96	FEB 97	VAR	N/A ²			
FY97	DOE/SANDIA NATIONAL LABS ALBUQUERQUE, NM	MIPR/OPT ¹	AFMC/SMC	NOV 96	NOV 97	VAR	N/A ²	YES	NO	
ARDU HARDWARE UPGRADE										
FY96	DOE/SANDIA NATIONAL LABS	MIPR/OPT ¹	AFMC/SMC	FEB 96	FEB 97	VAR	N/A ²			
FY97	DOE/SANDIA NATIONAL LABS ALBUQUERQUE, NM	MIPR/OPT ¹	AFMC/SMC	NOV 96	NOV 97	VAR	N/A ²	YES	NO	

D. REMARKS

- OPTION TO DEPT OF ENERGY (DOE/SANDIA NATIONAL LABS FIRM FIXED PRICE CONTRACT #92-920330, DATED APR 92.
- UNIT COSTS VARY DUE TO MULTIPLE TYPES OF COMPUTER HARDWARE BEING PROCURED.

P-1 SHOPP LIST
ITEM NO.
67

PAGE NO.
149

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		25.629	25.319	16.144	31.336	35.788	37.333	37.883

The Air Force Satellite Control Network (AFSCN) is a national asset tasked to support the research, development, test, evaluation and operations of satellite systems of the Department of Defense (DoD) and other users such as the United Kingdom, National Aeronautics Space Administration and North Atlantic Treaty Organization. The AFSCN is a worldwide network that consists of two control nodes (Onizuka AFS, CA and Falcon AFB, CO), 17 telemetry, tracking, and commanding (TT&C) antennas at nine geographical locations worldwide, a communications calibration site at Camp Parks, CA, vehicle checkout facilities at the Eastern and Western Ranges (ER and WR), and communications connectivity between these elements. The AFSCN mission is twofold: (1) to support systems test and operations of assigned DoD satellite programs with real-time TT&C, and (2) to provide for the orderly improvement and modernization of the satellite control network. This includes the planning, implementation, and operation and maintenance (O&M) of those support systems and equipment necessary to satisfy operational requirements. The Satellite and Launch Systems Program Office, Air Force Materiel Command (AFMCM)/Space and Missile Systems Center (SMC), is the development and acquisition center for the Command and Control System (CCS), the Communications and Range Systems program, and the improvement and modernization efforts required for the development and operation of the AFSCN. This includes the ground interface element, communications element, the range element and the support element. 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 (AFSPC) in support of operational DoD satellites.

AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&M): This program is an on-going program of projects which keep the AFSCN compatible with changes in current satellite and DoD ground system requirements. It permits the AFSCN to continue the tracking, telemetry and commanding (TT&C) of on-orbit satellites and satellites that experience system deterioration or failure. It continuously integrates changes in all segments of the AFSCN and updates the AFSCN by replacing obsolete equipment to improve efficiency and/or equipment reliability. The principal efforts within this program are:

MAJOR AFSCN PROJECTS:

a. **COMMAND AND CONTROL SYSTEM (CCS) AND NETWORK OPERATIONS UPGRADES:** This program upgrades mission critical computer systems which perform satellite telemetry processing and commanding, orbit data processing network scheduling, and software/database maintenance and testing in AFSCN satellite operations centers (SOC), mission control complexes (MCC), resource control complexes (RCC), and related training and operational software support facilities at Falcon AFB, CO and Onizuka AFS, CA, and eight world-wide tracking stations. The standard core CCS architecture is based on IBM mainframes with special telemetry, command front ends and CCS common user software to support 130,000 real-time satellite contracts per year and associated non-real time planning and evaluation functions. CCS common user equipment/software (CUE/CUS) is augmented with mission unique equipment/software (MUE/MUS) where needed to meet peculiar program requirements. Equipment must be added or replaced in specific CCS facilities on a

	P-1 SHOPP LIST ITEM NO. 68	PAGE NO. 150	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

continuing basis to (1) reduce operating and maintenance costs (O&M); (2) accommodate increasing mission loads, changes in concept of operations and new satellite programs; (3) replace obsolete equipment; (4) implement architectural/interface changes and deficiency corrections; and (5) satisfy other operational and sustainment requirements. The CCS is evolving from the current mainframe based system installed under the Data Systems Modernization Program to an open, distributed workstation environment using a high speed communications backbone. This evolution offers tremendous potential for reducing satellite control O&M costs through enhanced commonality and standardization. As part of this evolution, the demonstration facility was augmented in FY95 with additional end system hardware to evaluate with the end user various commercial-off-the-shelf (COTS) products.

In FY96, COTS systems will be procured for the Network Operations (scheduling and intra-range operations facilities) and for the Standard Satellite Control System (SSCS). The SSCS will be a COTS purchase of the Distributed Command and Control System (DCCS) (telemetry, tracking and commanding system) developed by another government organization. These systems will be modified to meet full AFSPC operational requirements.

In FY97, operational systems will be procured for Network Operations in the Offsite Software Maintenance Complex (OSMC) and the first SSCS.

b. RANGE AND COMMUNICATIONS DEVELOPMENT: FY95-97 funds are being used to procure several standardization efforts. These efforts improve and modernize the communications and ground segment elements of the AFSCN. FY95 projects include (a) upgrading the remaining Thule Remote Tracking Station (RTS) antenna control capability with standardized, automated equipment; (b) procuring, installing, and documentation of archival recorder systems in the communications segment. The archival recorder systems replace obsolete, manpower-intensive equipment with automated, standardized COTS systems; (3) procuring equipment and installing a baseline system for the Centralized Control & Monitor (CC&M) which will consolidate communications operations, provide remote control of tracking station equipment, and increase fault detection and isolation capabilities to reduce O&M costs; and (3) procuring WANIU hardware for two RTSs. The WANIU standardizes hardware and reduces O&M costs for performing multiplexing functions in the AFSCN.

FY96 projects include (a) procuring and installing three additional archival recorder system units; (b) procuring additional CC&M hardware/software, and data to complete the baseline of the CC&M; and (3) procuring and installing additional WANIUs in three additional RTSs.

FY97 funds will provide for user-requested upgrades to the range and communications segment.

MINOR AFSCN PROJECTS:

	P-1 SHOPP LIST ITEM NO. 68	PAGE NO. 151	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

The AFSCN Priorities Working Group (APWG) prioritizes minor projects and/or equipment to be procured within available funding. The Satellite Launch and Control Systems Program Office uses a combination of contractual vehicles to accomplish execution of the funding. Examples of FY95, 96 and 97 minor projects are upgrades to the communication equipment at Camp Parks Communications Annex, replacement of receivers and amplifiers on data link terminals, and replacement of remote tracking station antenna drive control units. Beginning in FY97, all projects will be identified within the appropriate upgrade program, Network Operations Upgrade or the Range and Communications Development Program.

	P-1 SHOPP LIST ITEM NO. 68	PAGE NO. 152	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

AFSCN I&M													
MAJOR AFSCN PROJECTS					VAR	N/A	(25,629)	VAR	N/A	(25,319)	VAR	N/A	(16,144)
a. CCS AND NETWORK OPERATIONS UPGR	A						7,800			11,125			12,944
b. RANGE & COMM DEVELOPMENT	A						12,029			9,370			3,200
MINOR AFSCN PROJECTS	A				VAR	N/A	5,800			4,824			
TOTAL							25,629			25,319			16,144

	P-1 SHOPP LIST ITEM NO. 68	PAGE NO. 153	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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										
MAJOR AFSCN PROJECTS										
A. CCS AND NETWORK OPERATIONS UPGRADES										
FY95	LORAL FED SYS SUNNYVALE, CA	OPTION 1	AFMC/SMC	APR 95	AUG 95	1 ²	N/A ³			
FY96	UNKNOWN	C/CPAF ⁴	AFMC/SMC	APR 96	SEP 96	1 ²	N/A ³	YES	NO	
FY97	UNKNOWN	OPT/CPAF ⁴	AFMC/SMC	OCT 96	SEP 97	1 ²	N/A ³	NO ⁵	YES	JUL 96
B. RANGE & COMM DEVELOPMENT										
FY95	LORAL SPACE & RANGE SUNNYVALE, CA	OPTION ⁶	AFMC/SMC	APR 95	OCT 95	1 ²	N/A ³			
FY96	UNKNOWN	C/CPAF ⁷	AFMC/SMC	APR 96	APR 96	1 ²	N/A ³	YES	NO	
FY97	UNKNOWN	OPT/CPAF ⁷	AFMC/SMC	DEC 96	SEP 97	1 ²	N/A ³	NO ⁵	YES	JUL 96
MINOR AFSCN PROJECTS										
FY95	MULTIPLE ⁸	OPTIONS ⁹	AFMC/SMC	MULTI ¹⁰	MULTI ¹⁰	VAR	N/A ³			
FY96	MULTIPLE ⁸	OPTIONS ⁹	AFMC/SMC	MULTI ¹⁰	MULTI ¹⁰	VAR	N/A ³			
FY97	MULTIPLE ⁸	OPTIONS ⁹	AFMC/SMC	MULTI ¹⁰	MULTI ¹⁰	VAR	N/A ³	YES	NO	

D. REMARKS

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

68

154

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

1. OPTION TO PRIOR YEAR COMPETITIVELY AWARDED CONTRACT TO LORAL FEDERAL SYSTEMS.
2. A QUANTITY OF '1' INDICATES ONE LOT OF EQUIPMENT ASSOCIATED WITH A SPECIFIC OPERATIONAL CAPABILITY.
3. UNIT COSTS VARY BECAUSE OF DIFFERENT TYPES/CONFIGURATIONS OF EQUIPMENT BEING PROCURED.
4. FIVE YEAR NETWORK OPERATIONS UPGRADE CONTRACT (NOUC) TO BE COMPETITIVELY AWARDED 2ND QUARTER/FY96.
5. SPECIFICATIONS ARE GENERATED FOR EACH INDIVIDUAL PROJECT TO SATISFY SPECIFIC OPERATIONAL NEEDS.
6. OPTION TO THE FY91 AFMC/SMC COMPETITIVELY AWARDED CONTRACT TO LORAL SPACE & RANGE.
7. FIVE YEAR RANGE AND COMMUNICATIONS DEVELOPMENT CONTRACT (RCDC) TO BE COMPETITIVELY AWARDED 2ND QUARTER/FY96.
8. EXAMPLES OF CONTRACTORS ARE LORAL SPACE AND RANGE SYSTEMS, SUNNYVALE, CA, LORAL FEDERAL SYSTEMS GROUP, SUNNYVALE, CA, OTHERS AS DICTATED BY RESULTS OF COMPETITIONS.
9. THE SATELLITE LAUNCH AND CONTROL SYSTEMS PROGRAM OFFICE USES A COMBINATION OF CONTRACTUAL VEHICLES TO ACCOMPLISH EXECUTION OF FUNDS.
10. MULTIPLE CONTRACTS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.

D. REMARKS 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
68	155	

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		112.806	111.746	102.442	117.101	111.927	96.110	98.244

Two national ranges, the Eastern Range (ER) at Patrick AFB, FL, and the Western Range (WR) at Vandenberg AFB, CA, provide command/control, tracking, telemetry, communications 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. Many existing range systems are based on 1950/1960s technology with minimal upgrades, resulting in a highly inefficient, manpower intensive architecture. Reliability of range instrumentation is deteriorating and over forty percent of the components are obsolete with no sources for support. The ranges do not provide the responsiveness and flexibility critical to affordably support the nation's spacelift needs. Range systems must be upgraded, replaced or consolidated to sustain operations into the next century. This overhaul effort is directed by National Space Policy directives. The resulting range system must support current launch vehicles as well as emerging launch system technologies, and must be implemented without adversely affecting ongoing operations. The Range Standardization and Automation (RSA) Program provides the required redesign and overhaul. Other upgrade projects within the ER and WR, collectively referred to as the Improvement & Modernization (I&M) program, provide necessary improvements to currently fielded range components. These improvements will assure sustained, reliable support of on-going operations and will ensure the long term reliability and viability of selected existing range components to be incorporated into the RSA architecture to complement newly designed components procured through the RSA program.

To ensure comprehensive management of the range improvements and modernization program, the components/functions of both the ER and WR are defined 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 FY95-97 program:

- 1. RANGE STANDARDIZATION AND AUTOMATION (RSA):** This program will completely overhaul and redesign the ER and WR. Objectives include the following: (a) Replacing or eliminating the need for over 25,000 obsolete components which have no sources for spares; (b) standardizing equipment and operations across both ranges; (c) eliminating reliance on separate nonstandard logistics support and depot maintenance infrastructures and (d) incorporating automation and remote control to consolidate sites and functions to increase responsiveness and significantly reduce manpower required for operations and maintenance. Two key payoffs of this program will be the reduction in operations and maintenance costs of over twenty percent and the reduction of range configuration time between major operations from two-three days to less than four hours. FY95 funding provided fiber optic communications at the WR, and procured radar equipment required for multiple object debris tracking at both ranges. FY95 funding also continued replacing deteriorated communications and

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 156	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

provided the transition to automated switching at the main Cape Canaveral communications hub; provided new weather sensors/equipment to improve forecasted weather data; and procured an operational Consolidated Instrumentation Facility/associated Unified Tracking Antennas (CIF/UTA) at Ascension Island. The RSA phase one contract will continue into FY97 with the purchase of additional systems for the Ascension Island CIF and commercial-off-the-shelf equipment for the Satellite Communications System for the ER, Antigua, and Ascension Islands. 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. The SLRS will include a WR Operations Control Center (WROCC) and will replace imaging, surveillance, weather, optics, range communications and mobile systems. Delivery of products on this contract will be phased to provide 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. Products to be procured in the first year (FY96) of the contract include basic infrastructure, planning and scheduling systems, optics instrumentation and weather instrumentation. The second phase will begin procurement in FY97. These products include the basic communications infrastructure also known as the Network Segment.

2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION

a. **INSTRUMENTATION SEGMENT:** FY95 funds began procurement of Global Positioning System (GPS) based sounding systems, replaced/upgraded obsolete measurement and analysis equipment supporting primary range instrumentation, purchased an optics site computer replacement, and purchased infrared cameras. FY96 funding replaces obsolete and unreliable components with new technology hardware; provides needed upgrades to existing range systems to interface to the RSA Phase I design and protocols; and replaces obsolete and unsupportable radar klystron transmitters. Replacements for obsolete and unsustainable measurement and analysis equipment will also continue to be procured. FY97 funds will procure additional upgrades to existing range systems to interface to RSA Phase I, upgrade radar and telemetry system computers to allow remote control under the RSA concept, procure additional GPS based sounding systems, provide new GPS Ground Translator Processor systems for range sites to allow decommissioning of radars in the future as vehicles migrate to GPS based tracking, and continue replacing obsolete measurement and analysis equipment.

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 sustaining existing equipment until it is replaced under the RSA program. FY95 funds procured additional timing system equipment, replaced deteriorated rhombic high frequency antennas at the Cape Canaveral Air Site (CCAS), procured specialized test equipment for fiber optic cable and equipment maintenance, and replaced deteriorated power and communications boxes at CCAS mobile optics sites. FY96 funds provide communications backbone upgrades that will carry 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

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 157	
--	----------------------------------	-----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

optic node sites, and purchase additional timing system equipment. FY97 funds will provide additional communications backbone upgrades and will replace obsolete and unsupported Transistorized Operational Phone System (TOPS) and point-to-point phones.

c. **CONTROL/DISPLAY SEGMENT:** This equipment sustains range operational data processing capabilities until the RSA data processing architecture is completed. FY95 funds procured ground safety monitoring workstations, Weather Information Display System (WINDS) workstations and modernized meteorological and mission data processing and display systems. FY96 funding upgrades the weather radar to improve volumetric scan display capability, provides 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 will provide additional upgrades to existing range systems to interface to the RSA Phase I design and protocols, replace the unreliable Central Command Remoting System and continue modernization of additional meteorological and mission processing and display systems.

d. **RANGE OPERATIONS CONTROL CENTER (ROCC):** The ROCC is replacing the thirty year old Range Control Center (RCC) used to support and control launch operations at Cape Canaveral, FL. ROCC systems replaced existing unsupported and unreliable systems allowing decommissioning of the RCC. FY95/96 funds provide preplanned product improvements. No FY97 funding is requested.

3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION

a. **INSTRUMENTATION SEGMENT:** FY95 funding provided life extension upgrades on tracking radars, optical tracking systems, and surveillance tracking systems. FY96/97 funds will 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.

b. **NETWORK SEGMENT:** This project complements the RSA program by modernizing existing range systems in accordance with RSA design or sustaining existing equipment until it is replaced under the RSA program. FY95 funds acquired a digital wideband Fiber Optics Transmission System (FOTS) for Vandenberg Tracking Station, procured wideband digital communications replacements, replaced the Communications Battery Plant at the Molokai, HI, station, procured C-band unit replacements, procured the Data Transfer Center (DTC) Communications System Inverter upgrade, and procured Frequency Control and Analysis (FCA) system upgrades. FY96 funding procures the communications system upgrade for the Ewa Beach, HI, high frequency (HF) site, replaces the AN/TPQ-18 communications system, replaces the Molokai antenna, replaces ultra high frequency/very high frequency radio systems at four remote sites (Anderson Peak, Pillar Point, Wheeler AFS, and Vandenberg Telemetry Receiving Station), replaces electromagnetic interference/electromagnetic compatibility

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 158	
--	----------------------------------	-----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

test equipment, upgrades the frequency monitoring station communications system, upgrades Anderson Peak communications, and replaces closed circuit television (CCTV) display monitors. FY97 will provide operational voice system and video system replacements, upgrade backup power for the Ewa HF site, upgrade the Frequency Monitoring Station (FMS) Communications System, upgrade Anderson Peak Communications System, upgrade outdated test equipment, replace the Command Transmitter Site equipment, replace the Secure Transmission System (STS) Command Transmitter Decoder, upgrade the 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.

c. **CONTROL/DISPLAY SEGMENT:** This equipment sustains range operational data processing capabilities until the RSA data processing architecture is complete. FY95 funding procured Meteorological Data System (MDS) upgrades, Consolidated Range Simulation System (CRSS) component modules/peripherals, Range Safety Deficiency Corrections (RSDC) processor upgrades, and procured a replacement Acquisition Data System (ADS). FY96 funding provides a common ER and WR Meteorological Interactive Data Display System (MIDDS) and procures a RSDC console upgrade. FY97 funding will provide the Data Distribution Interface (DDI) to the RSDC, a Metric Data Processing System (MDPS), and ADS.

	P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 159	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

**D. DATE
MARCH 1996**

**A. APPROPRIATION/BUDGET ACTIVITY
TITLE/NO.**

**OPAF/ELECTRONICS &
TELECOMMUNICATIONS EQUIPMENT**

B. WEAPON MODEL/SERIES/ POPULAR NAME

**EASTERN/WESTERN RANGE IMPROVEMENTS AND
MODERNIZATION (I&M)**

**C. MANUFACTURER NAME/PLANT/ CITY/STATE
LOCATION**

See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	47,300	VAR	N/A	47,034	VAR	N/A	43,505
2. EAST RANGE (ER) I & M					VAR	N/A	(41,388)	VAR	N/A	(33,689)	VAR	N/A	(27,189)
a. INSTRUMENTATION SEGMENT	A						2,905			14,482			6,550
b. NETWORK SEGMENT	A						26,067			9,547			13,418
c. CONTROL/DISPLAY SEGMENT	A						10,508			8,660			7,221
d. RANGE OPERATIONS CONTROL CTR	A						1,908			1,000			
3. WEST RANGE (WR) I & M					VAR	N/A	(24,118)	VAR	N/A	(31,023)	VAR	N/A	(31,748)
a. INSTRUMENTATION SEGMENT	A						12,431			15,369			9,680
b. NETWORK SEGMENT	A						3,826			11,288			17,235
c. CONTROL/DISPLAY SEGMENT	A						7,861			4,366			4,833
TOTAL							112,806			111,746			102,442

**P-1 SHOPP LIST
ITEM NO.
69**

**PAGE NO.
160**

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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										
FY95	HARRIS CORP	OPT/CPAF ²	AFMC/SMC	JAN 95	NOV 96	VAR	N/A ³			
FY96	HARRIS CORP	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	YES	NO	
PHASE II ⁴										
FY96	LORAL	C-CPAF/CPFF	AFMC/SMC	NOV 95	DEC 96	VAR	N/A ³			
FY97	LORAL SUNNYVALE, CA	OPT-CPAF/ CPFF	AFMC/SMC	OCT 96	APR 97	VAR	N/A ³	YES	NO	
2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY95	MULTIPLE ⁵	C/FP ⁵	AFMC/SMC	JUL 95	MULTI ⁵	VAR ⁵	N/A ⁵			
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	NO	YES	SEP 96
B. NETWORK SEGMENT										
FY95	MULTIPLE ⁵	C/FP ⁵	AFMC/SMC	MAY 95	MULTI ⁵	VAR ⁵	N/A ⁵			
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	NO	YES	SEP 96

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. 161	Exhibit P-5a Procurement History and Planning	

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

C. CONTROL/DISPLAY SEGMENT										
FY95	MULTIPLE ⁵	C/FP ⁵	AFMC/SMC	APR 95	MULTI ⁵	VAR ⁵	N/A ⁵			
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	YES	NO	
D. RANGE OPS CONTROL CTR										
FY95	HARRIS	OPT/FPAF ⁶	AFMC/SMC	APR 95	JUN 95	VAR	N/A ⁵			
FY96	HARRIS MELBOURNE, FL	OPT/FPAF ⁶	AFMC/SMC	MAR 96	MAY 96	VAR	N/A ⁵	YES	NO	
3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY95	MULTIPLE ⁵	C/FP	AFMC/SMC	JAN 95	MULTI ⁵	VAR ⁵	N/A ⁵			
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	YES	NO	
B. NETWORK SEGMENT										
FY95	MULTIPLE ⁵	C/FP	AFMC/SMC	DEC 94	MULTI ⁵	VAR ⁵	N/A ⁵			
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	YES	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. 69	PAGE NO. 162	Exhibit P-5a Procurement History and Planning
----------------------------------	-----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

C. CONTROL/DISPLAY SEGMENT										
FY95	MULTIPLE ⁵	C/FP	AFMC/SMC	JAN 95	MULTI ⁵	VAR ⁵	N/A ⁵			
FY96	MULTIPLE ⁵	C/FP	AFMC/SMC	JAN 96	MULTI ⁵	VAR ⁵	N/A ⁵	YES	NO	
FY97	MULTIPLE ⁵	C/FP	AFMC/SMC	JAN 97	MULTI ⁵	VAR ⁵	N/A ⁵	YES	NO	SEP 96

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. 163	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 primary instrumentation at 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 II contract is for a new, competitively awarded contract (with options for six years) to provide a system-wide range architecture, a Western Range Operations Control Center, and to replace imaging, surveillance, weather, optics, range communications, and mobile systems.
5. Procurement will consist of numerous individual components to sustain 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. Option to FY88 competitive fixed price award fee contract.
7. Varying configurations of power conditioning and continuation equipment procured each year result in varying unit costs. Above award/delivery dates indicate date of first contract award/delivery.

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. 164	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE MILSATCOM					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	3.310	46.341	52.164	24.296	60.726	61.116	62.916	

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. FY96/97 includes funding for program management administrative (PMA) requirements for technical, engineering, and acquisition support for Milstar. Additionally, beginning in FY96, funding and requirements from P-1 Line # 62, Satellite Terminals, have been consolidated in MILSATCOM for better visibility and management of resources. FY95 narrative for Satellite Terminals is included in paragraph 4, Super High Frequency Terminals, and on the P-5 of the MILSATCOM budget documentation as notional entries. The above FY95 figure does not include funding appropriated for Satellite Terminals on P-1 line # 62.

1. **MILSTAR - AF TERMINALS:** (Formerly called Extremely High Frequency (EHF) Ground Equipment). 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. These requirements are documented in the Milstar Operational Requirements Document (ORD).

The following components are funded FY95 - FY97

a. **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). The FY95 budget was unusually low because savings realized from the prior year CPT contract award were used to fund FY95 requirements. FY96 funds provide for installation support and factory repair until turnover, terminal enhancements such as baseband processor upgrade, keyboard, MIL-STD-1582C and others with associated data, interim contractor support until organic capability is in place, system engineering, and program support. FY97 funds support continues installation support and factory repair, terminal enhancements such as computer processor upgrades, MAFTRS upgrade, and other system engineering and program support.

b. **SUPPORT SHELTERS:** Support shelters house and protect the command post equipment and support the 90 inch parabolic dish antenna at Milstar ground installations. FY95 funds complete procurement for support shelters at six sites, the last of 19 total sites.

2. **MILSTAR TACTICAL TERMINALS:** Certain Air Force users require 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.

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 165	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MILSATCOM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

a. **SINGLE CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS:** SCAMP is a single channel 37-pound portable manpack designed for use with Milstar EHF (extremely high frequency). It is capable of transmitting/receiving low data rate (LDR) voice, data and facsimiles. The Air Force procurement of SCAMPs 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 will 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, FY96/97 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 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. FY97 funds procure nine SMART-Ts along with associated program and engineering support out of a total planned procurement of 73. Current FY97 requirements are for three SMART-T terminals for USAFE and six for AMC. The USAFE terminals are to be used for command and control of USAFE forces, including EHF interoperability with joint forces. AMC SMART-Ts are to provide EHF connectivity for airlift control between CONUS control centers and forward operating bases.

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 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 procure and install the initial NCS including modems, radios, antennas, and computers. FY97 funding adds additional 5 KHZ and 25 KHZ channel capacity by procuring and installing additional modems, radios and antennas at the four network control sites. Additionally, FY96/97 funds provide for program support, site survey and integration of NCS enhancements.

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), Air Mobility Command (AMC), Air Combat Command (ACC), and other users in response to the JCS mandate to implement DAMA for UHF satellite access. FY96 funding procures EMUT

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 166	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 ITEM NOMENCLATURE

MILSATCOM

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)							

ancillary equipment for EMUTs procured in FY92 and FY93, as well as program support. FY97 funding procures EMUTs, associated ancillary equipment, and program support.

4. **SUPER HIGH FREQUENCY TERMINALS:** (formerly part of Satellite Terminals, P-1 line # 62)

a. **GROUND MOBILE FORCES SATELLITE COMMUNICATIONS (GMFSC):** GMFSC terminals 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 special operations. FY95 funding provided for program support. FY96/97 funding will provide equipment for evaluating each of the following projects: high voltage power supply replacement, MD-945 modems and Defense Satellite Communications Systems (DSCS) control orderwire systems. FY97 funding also provides for program support.

b. **JAM RESISTANT SECURE COMMUNICATIONS (JRSC):** The Defense Satellite Communications Systems (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. The JRSC network is a subnet of the DSCS. It provides jam resistant, secure, nuclear effects protected MILSATCOM connectivity between selected Air Force facilities and elements of the National Command Authorities (NCA). FY 96/97 funds continue to procure equipment for turn-key facilities which support the upgrade of the DSCS and JRSC network to include sensor sites and DCS hub stations. The specific equipment being procured includes: AN/GSC-49 upgrade kits, fiber optic modems, patch panels, timing sources, and interfacility links. This equipment has the ability to either stabilize or maximize the data throughput for the critical communications lines. FY97 funding also provides for program support.

c. **SINGLE CHANNEL TRANSPONDER SYSTEM (SCTS):** SCTS provides Emergency Action Message (EAM) and Force Direction Message (FDM) dissemination capability to selected command and centers and force elements for the control of nuclear forces. FY96 funds procure processors, and converters for 12 SCTS systems. No FY97 funding is requested.

P-1 SHOPP LIST
ITEM NO.
70

PAGE NO.
167

UNCLASSIFIED

UNCLASSIFIED								
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE MILSATCOM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	.		0.333	-		0.000
FY96	.		0.170	-		0.000
FY97	.		0.000	-		0.000

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 168	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
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 1995			FY 1996			FY 1997		
		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	(3,310)	VAR	N/A	(14,817)	VAR	N/A	(20,918)
a. CMD POST TERM. TERMINAL ENH. INSTALL SPT FACTORY REPAIR DATA ICS SUPPORT ENGR PROGRAM SPT	A						(1,461)			(14,817)			(20,918)
										4,670			9,142
										925			1,000
										1,425			1,500
										170			
										1,225			
							1,461			4,030			5,760
										2,372			3,516
b. SPT SHELTERS EQUIPMENT SPT ENGINEERING	A						(1,849)						
					6	286	1,716						
							133						

P-1 SHOPP LIST
ITEM NO.
70

PAGE NO.
169

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		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	(10,286)
a. NETWORK CNTL SYS	A					(8,154)			(3,542)
CONTROL SEGMENT				4	184	736			
NCS RADIO SET EQ				32	263	5,510	8	321	2,564
PROGRAM SPT						1,119			592
SITE SURVEY & INTEGRATION						789			386
b. GROUND TERMINAL	A					(3,329)			(6,744)
EMUTS							182	23	4,186
EMUT ANCILLARY EQ						2,826			1,300
PROGRAM SPT						503			1,258

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 171	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

4. SUPER HIGH FREQ TERMINALS	A				VAR	N/A	(4,179) ¹	VAR	N/A	(7,466)	VAR	N/A	(4,532)
a. GMFSC EQUIPMENT PROGRAM SPT							(45)	VAR	N/A	(749)			(783)
							45 ¹			749			207
													576
b. JRSC JRSC INTERCONNECT FACILITY UPGRADE PROGRAM SPT	A						(4,134)			(2,912)			(3,749)
							4,134 ¹			2,912			1,962
													1,787
c. SCTS SCTS EQUIP	A							12 ²	N/A	(3,805)			
										3,805			
TOTAL							3,310			46,341			52,164

1. Beginning in FY96, funding and requirements from P-1 line # 62, Satellite Terminals, have been consolidated in MILSATCOM (4. Super High Frequency Terminals) for better visibility and management of resources. FY95 Satellite Terminal funding is not included in MILSATCOM FY95 totals.
2. Twelve Systems.

	P-1 SHOPP LIST ITEM NO. 70	PAGE NO. 172	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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										
A. COMMAND POST TERMINALS TERMINAL ENHANCEMENTS										
FY96	RAYTHEON ¹ MARLBORO, MA	OPT/FFP ²	AFMC/ESC	MULTI ³	MULTI ³	VAR	N/A ⁴			
	ROCKWELL ¹ RICHARDSON, TX	OPT/FFP ²	AFMC/ESC	MULTI ³	MULTI ³	VAR	N/A ⁴			
FY97	RAYTHEON ¹	OPT/FFP ²	AFMC/ESC	MULTI ³	MULTI ³	VAR	N/A ⁴	NO	YES	JUL 96
	ROCKWELL ¹	OPT/FFP ²	AFMC/ESC	MULTI ³	MULTI ³	VAR	N/A ⁴	NO	YES	JUL 96
B. SUPPORT SHELTERS										
FY95	SHIELD RITE ALBUQUERQUE, NM	DO/FFP ⁵	AFMC/ESC	DEC 94	JUL 95	6	286			
2. MILSTAR-TACTICAL TERMINALS										
A. SCAMP TERMINALS										
FY96	ARMY/ROCKWELL RICHARDSON, TX	C/FFP/MIPR	AFMC/ESC	FEB 96	JUL 97	55	197			
FY97	ARMY/ROCKWELL	OPT/FFP/MIPR	AFMC/ESC	FEB 97	MAR 98	99	80	YES	NO	
B. SMART-T										
FY97	ARMY/RAYTHEON MARLBORO, MA	OPT/FFP/MIPR ⁶	AFMC/ESC	FEB 97	OCT 98	9	558	YES	NO	

D. REMARKS

DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

P-1 SHOPP LIST
ITEM NO.
70

PAGE NO.
173

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

**A. DATE
MARCH 1996**

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
3. UHF SATCOM										
A. NETWORK CONTROL SYS										
FY96	VIASAT, INC. CARLSBAD, CA	OPT/FFP ⁷	AFMC/ESC	APR 96	AUG 96	VAR	N/A ⁸	YES	NO	
FY97	VIASAT, INC.	OPT/FFP ⁷	AFMC/ESC	OCT 96	APR 97	VAR	N/A ⁹	YES	NO	
B. GROUND TERMINAL										
FY96	ARMY/MAGNAVOX FT WAYNE IN	C/FFP/MIPR	AFMC/ESC	MAR 96	NOV 96	VAR	N/A ⁴			
FY97	ARMY/MAGNAVOX	OPT/FFP/MIPR	AFMC/ESC	OCT 96	APR 96	182	23	YES	NO	
4. SUPER HIGH FREQUENCY TERMINALS										
A. GMFSC EQUIPMENT										
FY96	ARMY/UNKNOWN	C/FFP/MIPR	AFMC/ESC	MULTI ¹⁰	MULTI ¹⁰	VAR ¹¹	N/A ⁴	YES	NO	
FY97	ARMY/UNKNOWN	OPT/FFP/MIPR	AFMC/ESC	MULTI ¹⁰	MULTI ¹⁰	VAR ¹¹	N/A ⁴	YES	NO	
B. JRSC INTERCONNECT FAC UPGR										
FY95	ARMY/MULTIPLE ¹²	OPT/FFP/MIPR	AFMC/ESC	MULTI ¹⁰	MULTI ¹⁰	VAR ¹¹	N/A ⁴			
FY96	ARMY/UNKNOWN	C/FFP/MIPR	AFMC/ESC	MULTI ¹⁰	MULTI ¹⁰	VAR ¹¹	N/A ⁴	YES	NO	
FY97	ARMY/UNKNOWN	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.
70

PAGE NO.
174

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
C. SCTS FY96	STANFORD TELECOM SUNNYVALE, CA	OPT/FFP ¹³	AFMC/ESC	MULTI ¹⁴	MULTI ¹⁴	12 15	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.

70

PAGE NO.

175

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
---------------------------	-------------------------	------------------------------	------------------	---------------	------------------------------	----------	--------------	-----------------------	----------------------	--------------------------

FOOTNOTES

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 contract 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. Option to FY92 C/FFP indefinite delivery order (DO) contract.
6. Air Force procurement is an option to Army FY96 contract
7. Option to Phase III Small Business Innovative Research (SBIR) contract with VIASAT, Carlsbad, CA.
8. Funding procures initial DAMA controller system equipment consisting of radios and associated equipment to control 5KHz 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. Site costs vary based on assigned missions.
10. Multiple award and delivery dates for options awarded to existing Army contracts.
11. Multiple locations.
12. MITEQ, Haupauge, NY; Tobyhanna Army Depot, PA.

D. REMARKS

DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

P-1 SHOPP LIST
ITEM NO.
70

PAGE NO.
176

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
---------------------------	-------------------------	------------------------------	------------------	---------------	------------------------------	----------	--------------	-----------------------	----------------------	--------------------------

13. Option to contract with Stanford Telecommunications contract, funded with FY93 funds.

14. Multiple award and delivery dates.

15. Number of Systems

D. REMARKS

DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

P-1 SHOPP LIST
ITEM NO.
70

PAGE NO.
177

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

"CODE B" ITEM DSCRIPTION (EXHIBIT P-19)		DATE: MARCH 1996		REPORT CONTROL SYMBOL DD-COMP(AR)1092		
APPROPRIATION OPAF	ACTIVITY ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 ITEM NOMENCLATURE MILSATCOM SMART-T				
ELEMENT OF STUDY		CURRENT (1)	SCHEDULE DATE LAST REPORT (2)		REASON FOR DELAY (3)	
DT&E TECHNICAL DATA PACKAGE IOT&E FOT&E		AUG 94 SEP 95 JUN 98 AUG 99		N/A N/A N/A N/A	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: LRIP DECISION FEB 96, FULL RATE PRODUCTION DECISION: FEB 99						
3. EQUIPMENT ITEM(S) TO BE REPLACED:						
N/A						
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:						
N/A						
5. DEVELOPMENT CONTRACT INFORMATION:		RDT&E FUNDING PROFILE (\$ MIL)				
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PYR (4)	CYR (5)	BYR (6)	BEYOND BYR (7)
RATHEON CO	MARLBORO, MA	ARMY	N/A	N/A	N/A	N/A
TOTAL						
REMARKS: - RAYTHEON: CDR HARDWARE SEP 93; SOFTWARE MAR 94; LRIP CONTRACT AWARD FEB 96 - UNIT LEVEL TESTING INITIATED - IOT&E WILL BE ACCOMPLISHED BY THE ARMY ON ARMY DELIVERED LRIP ASSETS - AF HAS NO UNIQUE TESTING REQUIREMENTS						
			P-1 SHOPP LIST ITEM NUMBER 70	PAGE NUMBER 178	5200P192	

UNCLASSIFIED

UNCLASSIFIED

FY97 PB PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE																											DATE: MARCH 1998			
ITEM/MFG PROCUREMENT YEAR	S E R V	FISCAL YEAR 96									FISCAL YEAR 97									FISCAL YEAR 98									L A T E R			
		PROG	ACCP	BAL	CALENDAR YEAR 96									CALENDAR YEAR 97									CALENDAR YEAR 98									
		QTY	PRIOR	DUE	95	95	95	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP
1B. SUPPORT SHELTERS #																																
FY95	AF	6	2	4	1	2	1																									0
2A. SCAMP TERMINALS *																																
FY96	AF	55	0	55							C																				0	
FY97	AF	99	0	99																											43	
2B. SMART-T **																																
FY97	AF	9	0	9																											9	
MANUFACTURER'S NAME AND LOCATION		PROD RATES			REA-	PROCUREMENT LEAD TIME															REMARKS:											
# SHIELD RITE		MIN	MAX	CH 0+	INITIAL					ADMIN LEAD TIME					MANUFACTURING TIME					TOTAL AFTER 1 OCT												
										PR 1 OCT					AFT 1 OCT																	
ALBUQUERQUE, NM				3																												
* ROCKWELL, TX		TBD	TBD		REORDER																											
RICHARDSON, TX																				P-1 SHOPPING LIST ITEM 5200P211.XLS												
** RAYTHEON		TBD	TBD****																	PAGE OF PAGES EXHIBIT P-21 179												
MARLBORO, MA																																
*** LRIP OPTION OFF ARMY FY96 CONTRACT																																
**** POST AWARD CONFERENCES (MAR 96) WILL DETERMINE THE MIN/MAX PRODUCTION RATES (TBDs) FOR BOTH CONTRACTS.																																

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	29.447	32.107	23.378	11.213	17.807	6.526	13.157	

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 FY95-FY97 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 FY95-97 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	FY95	FY96	FY97	FY98	FY99
T7122	304 SWITCH DECOMMISSION		3.855				
S408930	HTS MICROWAVE REPLACEMENT				0.716		
T7197	WING COMMAND POST SYSTEM		0.780				
MISC	MISCELLANEOUS LOW COST MODS		0.300	0.622			
	TOTAL		4.935	0.622	0.716		

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.

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 181	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)								

DMSP MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
39606B	5D-3/10 KBS COMMANDING MOD	8.134	1.100	0.200			
T7149	VANDENBERG ENHANCEMENT MOD			4.000			
T7191	DATA INGEST PROCESSING (DIPS)				2.800		.200
MISC	MISCELLANEOUS LOW COST MODS	2.250	0.454		0.890		
	TOTAL	10.384	1.554	4.200	3.690		.200

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 User Segment (NDUS). 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.

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 182	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

GPS MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
30724B	STATION COMPUTER SYS-SERIES 1			4.991	5.200	2.000	.200
30726B	ECHO & TELEMETRY RX UPGRADE	0.968					
30730B	CAPE MONITOR STATION UPGRADE		2.100	0.100			
30733B	MONITOR STATION RX UPGRADE	1.660	2.800				
T7199	HIGH POWER AMP REPLACEMENT				1.460	0.080	
T7177	CRYPTO REPLACEMENT				1.720		
T7011	PRN RANGING			1.610	0.868		
MISC	MISCELLANEOUS LOW COST MOD	0.747	0.258		0.435		
	TOTAL	3.375	5.158	6.701	9.683	2.080	.200

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.

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
T7109	MASS MEMORY UNIT (MMU) REPLACEMENT		1.700				
T7155	MGT/JRSCT FIBER OPTIC-INTERFACE			0.920	0.080		
MISC	MISCELLANEOUS LOW COST MOD			1.607	.370		
	TOTAL		1.700	2.527	0.450		

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 183	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
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 (Pirincik). 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.

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
19303B	EGLIN TRANSMITTER MODULE UPGR		9.755	10.831	0.300	6.649	0.700
38602B	EGLIN COMPUTER MOD	13.918	2.800				
39709B	GEODSS	10.946	2.200	5.613	3.600		
39710B	AN/FPS-85 COHERENT RX SYS MOD	2.522	0.500	0.500			
S508128	EGLIN SIGNAL PROCESSOR REPLAC				4.300		
MISC	MISCELLANEOUS LOW COST MODS	0.072	0.495	0.773	0.889		
	TOTAL	27.458	15.750	17.677	9.089	6.649	0.700

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 184	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE SPACE MODIFICATIONS				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
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 I) 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.

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
39707B	PARCS PERIPHERAL REPLACEMENT	4.725		0.330			
MISC	MISCELLANEOUS LOW COST MODS		0.350	0.050			
	TOTAL	4.725	0.350	0.380			

	P-1 SHOPP LIST ITEM NO. 71	PAGE NO. 185	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

MARCH 1996

EXHIBIT P-3N

MODIFICATION INSTALLATION SUMMARY

System/Modification: Space	Mod #	(TOA, Dollars in Millions) Title	FY95	FY96	FY97	FY98	FY99	FY00	FY01
Air Force Satellite Control Network (AFSCN)	S408930	HTS Microwave Link Replacement			.3				
		AFSCN TOTAL			.3				
Defense Meteorological Sat Pgrm (DMSP)	T-7191	Data Ingest Processing (DIPS)			2.8		.2		
		DMSP TOTAL			2.8		.2		
Navstar Global Positioning System (GPS)	307248	Station Computer System (Series 1) Replacement			.	.	.2	* Less Than \$50K	
	T-7199	High Power Amp Replacement			.	.1	.	* Less Than \$50K	
	T-7011	PRN Ranging Modification			.1				
		GPS TOTAL			.1	.1	.2		
Defense Support Program (DSP)	T-7155	MGT Jam Secure Comm Terminal Fiber Optic Interface			.	.		* Less Than \$50K	
		DSP TOTAL			.	.		* Less Than \$50K	
Spacetrack	193038	Eglin Transmitter Module Upgrade		.1	.3	.7	.7		
	397098	AN/FSQ-114 GEODSS Upgrade			.7				
	S508128	Eglin Signal Processor Replacement			.1				
		SPACETRACK TOTAL		.1	1.1	.7	.7		
		SPACE MODIFICATIONS TOTAL		.1	4.3	.8	1.1		

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Hawaii Tracking Station (HTS) Microwave Link Replacement, S408930

Models of Systems Affected: Space - Air Force Satellite Control Network (AFSCN)

Description/Justification: This modification will replace the wideband microwave link providing connectivity between Hawaii Tracking Station and the Defense Satellite Communications System Interface System of Wahiawa, Hawaii. Repair costs are excessive; sparing levels are inadequate, and the system continues to degrade. Without the wideband microwave link, the AFSCN will lose the primary means for command and control capability and data download capability for all satellites in the Mid-Pacific region.

Development Status/Major Development Milestones: CCB: Feb 96; Project Status Review: Aug 95; Contractor Proposal: Jul 96; Sow: Sep 96

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	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																					
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eopt (Kits)																					
(FY95) Eopt (Kits)																					
(FY96) Eopt (Kits)																					
(FY97) Eopt (1 Kits)																					
(FY98) Eopt (Kits)																					
(FY99) Eopt (Kits)																					
(FY00) Eopt (Kits)																					
(FY01) Eopt (Kits)																					
(FY (TC) Eopt (0 Kits)																					
Total Installation Cost																					
Total Procurement Cost																					

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

FY95:
FY95:

FY96:
FY96:

FY97: Dec 96
FY97: May 97

Administrative Lead Time: 4 Months

Production Lead Time: 6 Months

Installation Schedule:

	PY	FY95				FY96				FY97				FY98				FY99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																						
Output																						

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: 5D-3/10 K8S Commanding Mod, 396068

Models of Systems Affected: Space - Defense Meteorological Satellite Program (DMSP)

Description/Justification: The Command, Control, and Communications (C3) segment of the Defense Meteorological Satellite Program (DMSP) must be modified in order to meet the interface requirements of the 5D-3 satellites (S16-S20) as well as retain current capability to command and control the 5D-2 satellites. Operational use of the first 5D-3 satellite is planned for late 2000 and it is estimated the 5D-2 satellites will be in operation until CY 2004. The C3 segment modification will be attained by making selective modifications to Communications, Data Acquisition, Switching and Processing Subsystems at Fairchild Satellite Operations Center (FSOC), Spokane, WA and Multi-purpose Satellite Operations Center (MPSOC) Offutt AFB, NE and by modifying the System Communication Units (SCUs) located throughout the C3 Segment (10 sites). The modified equipment installed at FSOC and MPSOC will transition to Department of Commerce as part of the Executive Order for the converged weather satellite system. This effort includes modifying two command decoders, four command encoders, two Data Acquisition Subsystem (DAS) level converters, one echo check receiver, two Alken switches, two Dual Decommulator Command Processors (DDCP's), 29 SCUs and 13 spare circuit card sets. Prior year funds procured ten kits. FY96 funds installation, data and nonrecurring equipment. FY96 funds installation for two sites. Without this upgrade to the existing equipment, DMSP operational customers, including operators of national programs and tactical warfighters will be unable to use DMSP data from the 5D-3 satellites. These users will be denied the use of timely, weather data and imagery - a serious problem in areas with poor weather, such as Bosnia. Additionally, AFSPC will be unable to transmit/receive telemetry and commands from the 5D-3 satellites.

Development Status/Major Development Milestones: CCB Jan 94; CDR May 95; FCA Mar 96; PCA Mar 96

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL	
	Qty	Cost	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

Equipment Nonrecurring

Engineering Change Order

Data

Training Equipment

Support Equipment

Other

Interim Contractor Support

Installation of Hardware

(PY) Eqp't (10 Kits)

(FY95) Eqp't (Kits)

(FY96) Eqp't (Kits)

(FY97) Eqp't (Kits)

(FY98) Eqp't (Kits)

(FY99) Eqp't (Kits)

(FY00) Eqp't (Kits)

(FY01) Eqp't (Kits)

(FY (TC) Eqp't (0 Kits)

Total Installation Cost

Total Procurement Cost

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

PY: May 94

PY: Sep 95

FY95: Dec 94

FY95: Sep 95

FY96:

FY96:

Administrative Lead Time: 14 Months

FY97:

FY97:

Production Lead Time: 17 Months

Installation Schedule:

	PY	FY95			FY96			FY97			FY98			FY99			TOTAL					
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4				
Input				8		2	2	4	1	2	3	4	1	2	3	4					10	
Output					2	2	2	2	2													10

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Vandenberg Tracking Station DMSP Enhancement Modification, T7149

Models of Systems Affected: Space - Defense Meteorological Satellite Program (DMSP)

Description/Justification: This modification will allow satellite contacts to be made from both "A" and "B" strings at the Vandenberg tracking station. FY96 funding will procure DMSP interface equipment, switches, and racks as well as installation, software changes, and tech data. Without this modification, the DMSP mission will be severely degraded with the closure of the dedicated antenna facility at Fairchild Satellite Operations Center (FSOC), Spokane, WA. Real-time worldwide weather data will be unavailable due to limited availability of ground station. Telemetry uploads or data downloads could be lost or interrupted due to this limited equipment availability. This could lead to the loss of a multi-million dollar satellite or the loss of valuable DMSP data. DMSP operational customers, including operators of national programs systems and tactical warfighters could be denied use of DMSP data - a serious problem in areas with poor weather, such as Bosnia.

Development Status/Major Development Milestones: CCB Jun 94; CDR May 96; FCA Sep 96; PCA Sep 96

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecurring Equipment					2	3.6													2	3.6	
Equipment Nonrecurring Engineering Change Orders																					
Data						0.1															0.1
Training Equipment							0.1														
Support Equipment																					
Other																					0.1
Interim Contractor Support																					
Installation of Hardware																					
(FY) Eapt (Kits)																					
(FY96) Eapt (Kits)																					
(FY96) Eapt (2 Kits)					2	0.2															2 0.2
(FY97) Eapt (Kits)																					
(FY98) Eapt (Kits)																					
(FY99) Eapt (Kits)																					
(FY00) Eapt (Kits)																					
(FY01) Eapt (Kits)																					
(FY (TC) Eapt (0 Kits)																					
Total Installation Cost					2	0.2															2 0.2
Total Procurement Cost					2	4.0															2 4.0

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

FY95:
FY95:

FY96: Jan 96
FY96: Sep 96

FY97:
FY97:

Administrative Lead Time: 8 Months

Production Lead Time: 9 Months

Installation Schedule:

	PY	FY95				FY96				FY97				FY98				FY99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																						2
Output																						2

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No. Station Computer System (Series 1) Replacement, 30724B

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: The remote site Computer System (commonly referred to as Series 1) provides data processing of upload and download signals. These units currently have a mean-time-between-failure (MTBF) of 243 hours and the manufacturer states that they will not support the equipment beyond 1994. Failures of the Line Replaceable Units (LRU) of the Series 1 computers have been replaced by refurbished used equipment or repair by Individual contract or emergency Depot Level Maintenance contractual efforts. These are all costly stop-gap measures that allow continued supportability until this modification can be installed. This modification will replace these units with state-of-the-art units with an estimated MTBF of 2700 hours 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, install and operational validation of one site in Mar 97

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	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 Nonrecuring																					
Equipment					1	0.3	1	0.2	7	1.4									9	1.9	
Equipment Nonrecuring						0.3		0.3													0.6
Engineering Change Orders																					Less Than \$50K
Data						0.1		0.1		0.2											0.4
Training Equipment																					
Support Equipment									0.3												0.3
Other (Software)						4.3		4.3		0.4											9.0
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eopt (1Kts)																					
(FY95) Eopt (1Kts)																					
(FY96) Eopt (1Kts)								1												1	Less Than \$50K
(FY97) Eopt (1 Kts)										1										1	Less Than \$50K
(FY98) Eopt (7 Kts)												7	0.2							7	0.2
(FY99) Eopt (1Kts)																					
(FY00) Eopt (1Kts)																					
(FY01) Eopt (1Kts)																					
(FY (TC) Eopt (0 Kts)																					
Total Installation Cost								1		1		7	0.2							9	0.2
Total Procurement Cost						1	5.0	1	5.2	7	2.0		0.2							9	12.4

Method of Implementation: Contractor

Contract Dates: FY95: FY96: Mar 96 FY97: Dec 96 FY98: Dec 97 FY99: Production Lead Time: 12 Months
 Delivery Date: FY96: FY96: Mar 97 FY97: Nov 97 FY98: Nov 98 FY99:

Installation Schedule:	PY	FY95				FY96				FY97				FY98				FY99				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	2	2	1	9
Output										1			1						2	2	2	1	9

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Cape Monitor Station Upgrade 30730B

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: This modification is not reliability driven, but instead an enhancement to bring the receiver complement from a quantity of 2 to 6 at the Cape Canaveral, FL Monitor Station (MS). This additional capability is required to provide coverage to the current GPS constellation: Without this upgrade, the Master Control Station must wait until the satellites are within range of another monitor station before receiving data. This could allow incorrect data to be broadcast to navigational users. FY95 funds will procure the necessary equipment and data for this modification. FY96 funds the installation at Cape Canaveral.

Development Status/Major Development Milestones: CCB: Dec 94

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecuring																					
Equipment				1.0																1	1.0
Equipment Nonrecuring				0.9																	0.9
Engineering Change Orders																					0.9
Data				0.2																	0.2
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eopt (Kits)																					
(FY95) Eopt (1 Kits)						1	0.1													1	0.1
(FY96) Eopt (Kits)																					
(FY97) Eopt (Kits)																					
(FY98) Eopt (Kits)																					
(FY99) Eopt (Kits)																					
(FY00) Eopt (Kits)																					
(FY01) Eopt (Kits)																					
(FY (TC) Eopt (0 Kits)																					
Total Installation Cost						1	0.1													1	0.1
Total Procurement Cost				2.1			0.1													1	2.2

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

FY95: Aug 95

FY95: Aug 96

FY96:

FY96:

FY97:

FY97:

Administrative Lead Time: 2 Months

Production Lead Time: 13 Months

Installation Schedule:

	PY	FY95				FY96				FY97				FY98				FY99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																						
Output																						

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: High Power Amplifier Replacement Modification, T7199
Models of Systems Affected: Space - Navstar Global Positioning System (GPS)

Description/Justification: The remote site Ground Antennas (GA) provide the upload and download capability for the satellite controllers. The High Power Amplifiers (HPA) that amplify the upload signal are becoming increasingly unaffordable. Current MITB of 589 hours will increase to approximately 8,000 hours. This modification will replace the Klystron tube which is becoming increasingly difficult and costly to maintain. Spares have been transferred from site to site around the world to minimize downtime since sufficient numbers of spare Klystron tubes were unavailable. FY96 dollars will fund the five modification kits and required data.

Development Status/Major Development Milestones: CCB is scheduled for Oct 96.

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	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																					
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eqp't (Kits)																					
(FY95) Eqp't (Kits)																					
(FY96) Eqp't (Kits)																					
(FY97) Eqp't (5 Kits)																					
(FY98) Eqp't (Kits)																					
(FY99) Eqp't (Kits)																					
(FY00) Eqp't (Kits)																					
(FY01) Eqp't (Kits)																					
(FY (TC) Eqp't (0 Kits)																					
Total Installation Cost																					
Total Procurement Cost																					
5 1.5 4 0.1																					
5 1.6																					

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

Installation Schedule:

Input

Output

	FY95:		FY96:		FY97: Jan 97 FY97: Sep 97				FY98:				FY99:				Total
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Output									1	2	2						5
									1	2	2						5

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Contractor Crypto Equipment Replacement Modification, T7177
Models of Systems Affected: Space - Navstar Global Positioning System (GPS)

Description/Justification: The GPS crypto units used to perform cryptographic functions of the Master Control System (MCS), the Backup MCS (BMCS), and the Software Development Lab (SDL) are no longer manufactured. The software used by these units has been modified by the government and is no longer supported by the vendor. Support is becoming increasingly difficult and costly. International Business Machines (IBM) and overlook contractors have completed new technical operating requirements and engineering studies to identify a crypto replacement system with appropriate software to meet GPS classified processing requirements. An engineering proof of concept demonstration is being performed and will finalize the selection of COTS hardware and software and documented pre-modification requirements. Without the cryptographic replacement the GPS satellite constellation classified positioning capabilities will become inoperative and the constellation will become an unrestricted navigation system for unauthorized users. One kit, designed under a sustaining engineering contract completed testing Jan 96. After resolution of outstanding testing issues, a production contract will be awarded to procure the nine additional kits required. A total of ten kits are required, six for the MCS and four for the back-up MCS, which includes the SDL.

Development Status/Major Development Milestones: Proof of Concept completed 15 January 1996.

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecuring																					
Equipment							9	1.3												9	1.3
Equipment Nonrecuring																					
Engineering Change Orders																					
Data								0.1													0.1
Training Equipment																					
Support Equipment																					
Other								0.3													0.3
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eqpt (Kits)																					
(FY95) Eqpt (Kits)																					
(FY96) Eqpt (Kits)																					
(FY97) Eqpt (9 Kits)							9													9	User Installed
(FY98) Eqpt (Kits)																					
(FY99) Eqpt (Kits)																					
(FY00) Eqpt (Kits)																					
(FY01) Eqpt (Kits)																					
(FY (TC) Eqpt (0 Kits)																					
Total Installation Cost							9													9	User Installed
Total Procurement Cost							9	1.7												9	1.7

Method of Implementation: Contractor

Contract Dates: FY96: FY96: FY97: Oct 96 Administrative Lead Time: 2 Months Production Lead Time: 10 Months
Delivery Date: FY96: FY96: FY97: Jul 97

Installation Schedule:	PY	FY95				FY96				FY97				FY98				FY99				Total
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																					9	
Output																					9	

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Pseudo-Random Noise (PRN) Ranging Modification, T7011

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: Support of launch and early orbit/anomalous satellite vehicle (SV) operations requires timely access to SV commanding capabilities. Currently, an SV orbit must be characterized by a tracking vector, and a tracking message generated, in order for dedicated GPS antennas to track the SV. Tracking vectors are currently obtained from the Air Force Satellite Control Network. Total loss of a GPS satellite could occur within 45 minutes to 4 hours after anomalous loss of earth and sun. These time limits for regaining control of an anomalous vehicle cannot always be met by the AFSCN obtaining a tracking vector and the 2nd Space Operating Squadron generating a tracking message from it. A high probability of vehicle loss exist without this modification. PRN Ranging is used to accurately measure the range (distance) to a satellite. An organic GPS capability to gather PRN ranging and angle information is necessary to create program tracking messages and implement full autotrack capabilities. The FY96 procurement is for two strings of equipment per site of five sites. FY97 dollars are follow-on for technical data and installations.

Development Status/Major Development Milestones: CCB Oct 95

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecuring																					
Equipment					10	0.8													10	0.8	
Equipment Nonrecuring																					
Engineering Change Order																					
Data									0.4											0.4	
Training Equipment																					
Support Equipment																					
Other						0.8		0.4												1.2	
Interim Contractor Support																					
Installation of Hardware																					
(FY) Ecp1 (Kits)																					
(FY94) Ecp1 (Kits)																					
(FY95) Ecp1 (Kits)																					
(FY96) Ecp1 (10 Kits)								10	0.1										10	0.1	
(FY97) Ecp1 (Kits)																					
(FY98) Ecp1 (Kits)																					
(FY99) Ecp1 (Kits)																					
(FY00) Ecp1 (Kits)																					
(FY01) Ecp1 (Kits)																					
(FY (TC) Ecp1 (0 Kits)																					
Total Installation Cost								10	0.1											10	0.1
Total Procurement Cost						10	1.6		0.9											10	2.5

Method of Implementation: Contractor

Administrative Lead Time: 9 Months

Production Lead Time: 19 Months

Contract Dates:

FY95:

FY96: Jan 96

FY97: Jan 97

Delivery Date:

FY95:

FY96: Jul 97

FY97: Jul 97

Installation Schedule

PY

FY95

FY96

FY97

FY98

FY99

TOTAL

	PY	FY95				FY96				FY97				FY98				FY99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input																						10
Output																						10

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Mobile Ground Terminal (MGT) Jam Secure Communications Terminal (JRST) Fiber Optic Interface, T7155

Models of Systems Affected: Defense Support Program (DSP) - AN/MSQ-118 Communications System

Description/Justification: This modification will provide the necessary electronics to accept a fiber optic communications link between the AN/MSQ-118 (mission vehicle) and AN/MSQ-120 (comm vehicle) and AN/GSC-49 Jam Resistant Secure Communications terminal. This modification is driven by the Army upgrade to the JRST, AN/GSC-49, Contract No. DAA807-93-C-A501. The US Army has configuration responsibility for the AN/GSC-49 which is designed to provide High Altitude Electromagnetic Pulse (HEMP) protected Jam Resistant Secure Communications. Failure to provide fiber optic interface capability would impact HQ AFSPC's ability to communicate with the AN/GSC-49. Without this modification, data will be collected and processed by the mobile ground terminals with no capability to send near-real time messages to the warfighting CINC to meet the trans- and post-attack integrated Tactical Warning Attack and Assessment requirements.

Development Status/Major Development Milestones: PDR Jun 95, CCB Aug 95, CDR Oct 95, FCA/PCA Apr 96

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL	
	Qty	Cost	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 Nonrecuring																					
Equipment					8	0.3													8	0.3	
Equipment Nonrecuring						0.3														0.3	
Engineering Change Order																					
Data						0.2															0.2
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(FY) Eopt (Kits)																					
(FY95) Eopt (Kits)																					
(FY96) Eopt (8 Kits)					5	0.1	3	0.1												8	0.2
(FY97) Eopt (Kits)																					
(FY98) Eopt (Kits)																					
(FY99) Eopt (Kits)																					
(FY00) Eopt (Kits)																					
(FY01) Eopt (Kits)																					
(FY (TC) Eopt (0 Kits)																					
Total Installation Cost					5	0.1	3	0.1												8	0.2
Total Procurement Cost					5	0.9	3	0.1												8	1.0

Method of Implementation: Organic - Depot Field Team

Contract Dates:

Delivery Date:

FY95:
FY95:

Administrative Lead Time: 1 Month

FY96: Feb 96

FY96: Jun 96

FY97:

FY97:

Production Lead Time: 5 Months

Installation Schedule:	PY		FY95				FY96				FY97				FY98				FY99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Input						2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	8		
Output							3	2	2	1											8		

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Egin Transmitter Module Upgrade , 193038

Models of Systems Affected: Spacetrack - AN/FPS-85

Description/Justification: The transmitter upgrade replaces the unsupportable 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 Egin 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 Egin 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 with space debris.

Development Status/Major Development Milestones: Milestone IV, CCB to be held Oct 95, 1st Article Test: Jun 96; Field Test: Sep 96; FOC Sep 99

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecurring																					
Equipment																					
Equipment Nonrecurring				4 6.0		7 10.5				5 5.1										16 21.6	
Engineering Change Orders																					
Data						0.3															0.3
Training Equipment																					
Support Equipment						0.2															0.2
Other						3.3				0.9											4.4
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eqpt (Kits)																					
(FY95) Eqpt (4 Kits)							1 0.1		2 0.3		1 0.1										4 0.5
(FY96) Eqpt (7 Kits)											7 0.6										7 0.6
(FY97) Eqpt (0 Kits)																					
(FY98) Eqpt (5 Kits)													5 0.7								5 0.7
(FY99) Eqpt (Kits)																					
(FY00) Eqpt (Kits)																					
(FY01) Eqpt (Kits)																					
(FY (TC) Eqpt (0 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 6.7		0.7										16 28.3

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: Apr 98

Installation Schedule:

PY

	PY	FY 95				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	1	2	3	4	
Input																						16
Output																						16

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/F3Q-114 Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) System, 39709B

Models of Systems Affected: AN/F3Q-114

Description/Justification: This modification is a reliability and maintainability mod for computer upgrades at the three GEODSS sites. To satisfy changing operational requirements, this mod has been expanded to include a remote operations capability, reduce the number of the personnel and establish an Integrated Space Operations Center (ISOC). GEODSS provides metric observations and Space Object Identification (SOI) data to the users: the USSPC Space Control Center (SCC) and its alternate (ASCC); 1st Command and Control Squadron (1 CACS); and Control Intelligence Center (CIC). Failure to implement this mod will cause the space catalog to be degraded and will impact the ability to detect and track deep space satellite payloads and debris, perform New Foreign Launch (NFL) orbit determination, and perform mission assessment collision avoidance taskings.

Development Status/Major Development Milestones: CCB Dec 93, SDR Oct 95, PDR Feb 96, CDR May 96 with FOC Sep 97

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	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 Nonrecuring																					
Equipment		1 0.9			3	2.6													4	3.5	
Equipment Nonrecuring																					
Engineering Change Order						0.7		0.4													
Data		1.4				0.8														1.1	
Training Equipment																				2.2	
Support Equipment				0.8																	
Other		8.6		1.4		1.5		2.5												0.8	
Interim Contractor Support																				14.0	
Installation of Hardware																					
(PY) Eqpt (1 KIts)							1	0.1											1	0.1	
(FY95) Eqpt (KIts)																					
(FY96) Eqpt (3 KIts)							3	0.6											3	0.6	
(FY97) Eqpt (KIts)																					
(FY98) Eqpt (KIts)																					
(FY99) Eqpt (KIts)																					
(FY00) Eqpt (KIts)																					
(FY01) Eqpt (KIts)																					
(FY (TC) Eqpt (0 KIts)																					
Total Installation Cost							4	0.7													
Total Procurement Cost	1	10.9		2.2	3	5.6		3.6											4	0.7	
																			4	22.3	

Method of Implementation: Contractor
 Contract Dates: PY: Sep 94
 Delivery Date: PY: Dec 96
 Administrative Lead Time: 12 Months
 Production Lead Time: 7 Months

Installation Schedule:	PY	FY95				FY96				FY97				FY98				FY99				TOTAL
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input										1	2	3	4	1	2	3	4					4
Output														4								4

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/FPS-85 Coherent Receiver System Modernization, 397108

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 on the majority of the Space Object Catalog (SOC) objects by providing current track information on 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 the security of our military defenses if the object were to maneuver when Eglin is down for maintenance.

Development Status/Major Development Milestones: CCB Dec 92, PDR Jun 96, CDR Oct 96

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecurring																					
Equipment																					
Equipment Nonrecurring		1.0																		1	1.0
Engineering Change Orders						0.5															0.5
Data																					
Training Equipment																					** Less than \$50K
Support Equipment																					
Other		1.5																			
Interim Contractor Support																					1.5
Installation of Hardware																					
(PY) Eqpt (1 Kits)				1	0.5																1
(FY95) Eqpt (1Kts)																					0.5
(FY96) Eqpt (1Kts)																					
(FY97) Eqpt (1Kts)																					
(FY98) Eqpt (1Kts)																					
(FY99) Eqpt (1Kts)																					
(FY00) Eqpt (1Kts)																					
(FY01) Eqpt (1Kts)																					
(FY (TC) Eqpt (0 Kits)																					
Total Installation Cost				1	0.5																
Total Procurement Cost		1	2.5		0.5		0.5														1
																					1
																					3.5

Method of Implementation: Contractor

Contract Dates: PY: Apr 95

Delivery Date: PY: Jun 96

Administrative Lead Time: 2 Months

FY95: Jun 96

FY96: Aug 97

FY97:

FY97:

Production Lead Time: 15 Months

Installation Schedule:

	1	FY95				FY96				FY97				FY98				FY99				TOTAL
		2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Input																						
Output																						

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: Eglin - Signal Processor Modification, S508128
Models of Systems Affected: AN/FPS-85

Description/Justification: The signal processor modification will replace the existing signal processor 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 signal processor stable. The Eglin mission is vital to AFSPC as it presently is responsible for updating information on the majority of the Space Object Catalog (SOC) objects by providing current track information on 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 avoidance cannot be properly calculated. Current objects in space which Eglin is responsible for include maneuverable satellites gathering military data which can compromise the security of our military defenses if the object were to maneuver when Eglin is down for maintenance. A majority of the cost associated with this upgrade are associated with the integration of required software changes. The cost of the software changes are identified in the "OTHER" block below.

Development Status/Major Development Milestones: CCB Dec 97, PDR Mar 97, CDR Dec 97, IOC Mar 98.

Financial Plan: (\$ in Millions)

	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	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							1	0.5												1	0.5
Equipment Nonrecurring																					
Engineering Change Orders																					
Data								0.3													0.3
Training Equipment																					
Support Equipment																					
Other								3.4													3.4
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eqpt (Kits)																					
(FY95) Eqpt (Kits)																					
(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)																					
(PY (TC) Eqpt (0 Kits)																					
Total Installation Cost							1	0.1												1	0.1
Total Procurement Cost							1	4.3												1	4.3

Method of Implementation: Contractor

Contract Dates: FY96: FY96: FY97: Oct 96 Administrative Lead Time: 2 Months Production Lead Time: 16 Months
Delivery Date: FY96: FY97: Jan 98

Installation Schedule:	PY	FY95				FY96				FY97				FY98				FY99				Total
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Input														1								1
Output														1								1

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: PARCS Peripheral Upgrade, 39707B

Models of Systems Affected: AN/FPQ-16

Description/Justification: The PARCS peripheral replacement is a Reliability and Maintainability effort to replace obsolete and unsupported peripherals in the recording subsystem. 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 USSPAC/NORAD CINC and to notify the National Command Authority for appropriate Tactical Warning/Attack Assessment response. The AN/FPQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system. 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 Dec 92; PDR Jun 95, CDR Jan 96, Installation begins Jul 96, and completed Aug 96, IOC Oct 96, FOC Apr 97

Financial Plan: (\$ in Millions)	PY		FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC		TOTAL		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RD&E:																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecurring																					
Equipment		1	2.1																		
Equipment Nonrecurring																				1	2.1
Engineering Change Orders																					
Data			0.6																		
Software																					0.6
Training Equipment																					
Support Equipment																					
Other			2.0																		
Interim Contractor Support																					2.0
Installation of Hardware																					
(PY) Eqpt (Kits)						1	0.3														1 0.3
(FY96) Eqpt (Kits)																					
(FY96) Eqpt (Kits)																					
(FY97) Eqpt (Kits)																					
(FY98) Eqpt (Kits)																					
(FY99) Eqpt (Kits)																					
(FY00) Eqpt (Kits)																					
(FY01) Eqpt (Kits)																					
(FY (TC) Eqpt (0 Kits)																					
Total Installation Cost						1	0.3														1 0.3
Total Procurement Cost		1	4.7				0.3														1 5.0

Method of Implementation: Contractor
 Contract Dates: PY: Jan 95 FY95: Administrative Lead Time: 3 Months
 Delivery Date: PY: Jul 96 FY96: FY97: Production Lead Time: 19 Months
 FY96: FY97:

Installation Schedule:	PY	FY95				FY96			FY97			FY98			FY98			TOTAL			
Input	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
Output							1														1

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		31.884	24.183	24.075	31.648	31.478	31.657	31.641

The Tactical 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) and Air Combat Command (ACC). 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.

The following describes FY95-97 programs:

1. **DIGITAL COMMUNICATIONS TERMINALS (DCT):** The DCT is a lightweight, handheld communications message processor for point-to-point and netted communications over a variety of secure and nonsecure radio equipment. The DCT is operator interactive and provides user prompting to aid in message composition. These DCTs provide high speed, burst, jam resistant communications between Theater Air Control Parties (TACP) and Air Support Operations Centers (ASOC) for requesting and coordinating air support for Army maneuver units. FY95 provides Interim Contractor Support for the Briefcase Terminal procured with prior year funds. No FY97 funding requested.

2. **PACER SPEAK (ANGRC-206):** The PACER SPEAK program is an equipment replacement program designed around a common transmitter and receiver (RT-1319). The PACER SPEAK mobile, vehicle mounted radios are used by Air Force combat forces -- primarily by the TACPs which deploy with Army maneuver units and provide the command and control link for requesting immediate Air Force Close Air Support (CAS). The PACER SPEAK radios operate in the high frequency (HF), very high frequency/amplitude modulated (VHF/AM), and ultra high frequency/amplitude modulated (UHF/AM) modes and are HAVE QUICK compatible. FY95 funds procured installation assemblies for mounting in High Mobility Multi-purpose Wheeled Vehicles (HMMWVs), and multiple-word-of-day devices for better network management. FY96/97 funding will procure a SINCGARS/ANDVT (Advanced Narrowband Digital Voice Terminal) secure voice upgrade capability which gives the Air Force a secure voice capability and allows total interoperability with Army maneuver units. The inventory objective for the SINCGARS upgrade is 971. One hundred sixty (160) radios will be upgraded in FY96 and 186 in FY97. Additionally, FY96 funding finances peculiar depot test sets.

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 Explosive 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 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 II radios, battery chargers, battery reconditioners, vehicle adapters, base stations, programming units, and cloning cables. FY95 funding procured 24 systems. No FY97 funding requested.

	P-1 SHOPP LIST ITEM NO. 72	PAGE NO. 202	
--	----------------------------------	-----------------	--

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)								

4. **THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM:** As pointed out during Desert Shield/Desert Storm (DS/DS), today's generation of deployable communications equipment is bulky, inflexible in design and does not meet today's projected airlift availability or interoperability standards. Air Force planning calls for initial communications assets to be in place prior to the arrival of flying forces. Deployment priorities for DS/DS did not allow timely arrival of communications assets. This program procures commercial off-the-shelf (COTS) equipment that will either augment existing assets or replace tactical communications systems with a family of lightweight, modular, fully integrated, deployable communications packages. These TDC packages will reduce airlift requirements and be designed to support a wide range of operational scenarios during deployment/employment, expansion and sustaining operations. Communications packages will be used by theater air control, combat communications and special operations units as well as deployed air wings and mobility forces worldwide. Equipment procured under this program will also provide the necessary communications infrastructure to support deployed intelligence, logistics and other mission support operations. FY95-97 TDC funding supports the following:

a. **MULTIBAND SATELLITE TERMINALS:** Multiband (C-, Ku- and X-band) satellite terminals are required to augment existing tactical communications equipment fielded at Air Force units assigned a deployment mission. These small, lightweight terminals meet military and commercial standards and are fully interoperable with existing tactical communications systems. The terminals will be distributed to high priority Air Combat Command, Air Mobility Command, US Air Force Europe, Pacific Air Force and Air Force Special Operations Command users with deployment missions. FY95 funds procure seven satellite terminals and FY96/97 funding continues procurement with buys of six terminals each year.

b. **COMMUNICATIONS PACKAGES:** This line procures the next generation of communications equipment (three different sizes of communications packages) designed to augment or replace existing tactical communications systems currently fielded at Air Force communications units. These lightweight communications packages will meet varying mission applications such as Theater Air Control Systems (Air Operations Centers, Control and Reporting Centers, Forward Air Control Posts, Air Support Operations Centers and Theater Air Control Parties), Air Component Headquarters, deployed wings, special operations, Tactical Airlift Control Elements and Combat Control Teams. FY94 procured two different sized communications packages which were designed to meet the above applications. Field evaluation of the communications packages to ensure they meet user circuit capacity requirements and are fully compatible with existing Air Force/joint tactical systems has been accomplished. Specific items procured in each communications package will consist of access, voice, message and data switching; multiplexing; network management; patch and test panel; and local and wide area network equipment. FY96/97 funding continues procurement with buys of two and four communications packages, respectively.

	P-1 SHOPP LIST ITEM NO. 72	PAGE NO. 203	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

c. **MULTIPLEXING/LOCAL AREA NETWORK (LAN) HARDWARE:** This program procures standalone communications hardware that will provide users with an immediate payoff in either capability or efficiency. FY95 funding procured low risk enhancements such as transmission interface boxes, smart multiplexers, and deployable local area networks to augment existing tactical field communications systems. No FY97 funding requested.

d. **ANCILLARY EQUIPMENT:** This program procures miscellaneous equipment items required to integrate the new Theater Deployable Communications equipment items into the already existing tactical communications structure in use today. FY95 funded transit cases and modems. No FY97 funding requested.

5. **ANG/AFR:**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		0.000	-		0.000
FY96	-		3.487	-		0.000
FY97	-		3.451	-		0.000

	P-1 SHOPP LIST ITEM NO. 72	PAGE NO. 204	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. DIGITAL COMM TERM							(712)						
INTERIM CONTRACTOR SUPPORT (ICS)					VAR	N/A	712						
2. PACER SPEAK (AN/GRC-206)					VAR	N/A	(2,947)	VAR	N/A	(8,211)	VAR	N/A	(8,437)
a. VEHICLE INSTALL. ASSEMBLY	A				198	9.9K	1,961						
b. MULTIPLE WORD OF DAY DEVICE	A				657	1.5K	986						
c. SINGARS/ANDVT (V5) UPGRADE	A							160	45.2K	7,211	186	45.2K	8,437
d. DEPOT TEST SETS	A									1,000			
				P-1 SHOPP LIST ITEM NO. 72		PAGE NO. 205		Exhibit P-5 Weapon System Cost Analysis					

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

3. CECCS	A				24 ¹	N/A	7,423							
4. THEATER DEPLOYABLE COMM (TDC) PROGRAM					VAR	N/A	(20,802)	VAR	N/A	(15,972)	VAR	N/A	(15,638)	
a. MULTIBAND SAT TERMINALS	A				7	1,770	12,400	6	1,250	7,500	6	1,250	7,500	
b. COMM PACKAGES	A							2	N/A	8,472	4	N/A	8,138	
c. MULTIPLEXING/ LAN HARDWARE	A						6,402							
d. ANCILLARY EQUIP	A						2,000							

¹ Number of Systems

	P-1 SHOPP LIST ITEM NO. 72	PAGE NO. 206	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------------	------------------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE
MARCH 1996

**A. APPROPRIATION/BUDGET ACTIVITY
TITLE/NO.**

B. WEAPON MODEL/SERIES/ POPULAR NAME

**C. MANUFACTURER NAME/PLANT/ CITY/STATE
LOCATION**

**OPAF/ELECTRONICS &
TELECOMMUNICATIONS EQUIPMENT**

TACTICAL C-E EQUIPMENT

See Manufacturing Information on P-5A

Weapon System Cost Elements	IDENT CODE	FY 1995			FY 1996			FY 1997					
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST			
TOTAL						31,884			24,183				24,075

**P-1 SHOPP LIST
ITEM NO.**
72

PAGE NO.
207

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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. DIGITAL COMMUNICATIONS TERM										
ICS - NO ENTRY										
2. PACER SPEAK (AN/GRC-208)										
A. VEHICLE INSTALLATION ASSEMBLY FY95	AFMC/SM-ALC ¹ SACRAMENTO, CA	WR ¹	AFMC/ESC	JAN 95	MAY 95	198	9,900			
B. MULTIPLE WORD OF DAY DEVICE FY95	MAGNAVOX FT WAYNE, IN	SS/FFP	AFMC/ESC	OCT 95	DEC 96	657	1,500	YES	NO	
C. SINCGARS/ANDVT (V5) UPGRADE FY96	MAGNAVOX	OPT/FFP ²	AFMC/ESC	FEB 96	APR 97	160	45,200			
FY97	MAGNAVOX FT WAYNE, IN	OPT/FFP ²	AFMC/ESC	NOV 96	DEC 97	186	45,200	YES	NO	

D. REMARKS

1. Work request (WR). Installation kits (cabling) are being fabricated in-house by Sacramento Air Logistics Center (SM-ALC).
2. Option to FY95 SINCGARS/ANDVT integration contract with Magnavox.
3. Option to prior year Air Base Ground Defense production contract.
4. Unit costs vary due to multiple types of equipment being procured for each system. Quantity represents number of systems being procured.
5. Unit cost varies because "sizing" of communications packages depends on user application.
6. Numerous small equipment acquisitions dealing with multiple contractors with varying award and delivery dates, quantities and unit costs.

P-1 SHOPP LIST
ITEM NO.

72

PAGE NO.

208

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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

3. CECCS

FY95

RACAL COMM, INC
ROCKVILLE, MD

OPT/FP ³

AFMC/ESC

APR 95

OCT 96

24 ⁴

N/A ⁴

4. THEATER DEPLOYABLE
COMMUNICATIONS PROGRAM

A. MULTIBAND SATELLITE TERMINALS

FY95

ARMY/CECOM
HARRIS CORP

C/FFP/MIPR

AFMC/ESC

AUG 95

MAY 96

7

1,770

FY96

ARMY/CECOM
HARRIS CORP

OPTION/MIPR

AFMC/ESC

MAY 96

FEB 97

6

1,250

YES

NO

FY97

ARMY/CECOM
HARRIS CORP
MELBOURNE, FL

OPTION/MIPR

AFMC/ESC

JAN 97

MAY 97

6

1,250

YES

NO

D. REMARKS

1. Work request (WR). Installation kits (cabling) are being fabricated in-house by Sacramento Air Logistics Center (SM-ALC).
2. Option to FY95 SINGARS/ANDVT integration contract with Magnavox.
3. Option to prior year Air Base Ground Defense production contract.
4. Unit costs vary due to multiple types of equipment being procured for each system. Quantity represents number of systems being procured.
5. Unit cost varies because "sizing" of communications packages depends on user application.
6. Numerous small equipment acquisitions dealing with multiple contractors with varying award and delivery dates, quantities and unit costs.

P-1 SHOPP LIST
ITEM NO.

72

PAGE NO.

209

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

B. COMMUNICATIONS PACKAGES										
FY96	UNKNOWN	C/FFP	AFMC/ESC	SEP 96	JUN 97	4	N/A ⁵	YES	NO	
FY97	UNKNOWN	OPTION/FFP	AFMC/ESC	DEC 96	DEC 97	6	N/A ⁵	YES	NO	
C. MULTIPLEXING/LAN HARDWARE										
FY95	MULTIPLE ⁶	C/FFP	AFMC/ESC	VAR ⁶	VAR	VAR ⁶	N/A ⁶			
D. ANCILLARY EQUIPMENT										
FY95	MULTIPLE ⁶	C/FFP	HQ AMC	VAR ⁶	VAR ⁶	VAR ⁶	N/A ⁶			

- D. REMARKS**
1. Work request (WR). Installation kits (cabling) are being fabricated in-house by Sacramento Air Logistics Center (SM-ALC).
 2. Option to FY95 SINGARS/ANDVT integration contract with Magnavox.
 3. Option to prior year Air Base Ground Defense production contract.
 4. Unit costs vary due to multiple types of equipment being procured for each system. Quantity represents number of systems being procured.
 5. Unit cost varies because "sizing" of communications packages depends on user application.
 6. Numerous small equipment acquisitions dealing with multiple contractors with varying award and delivery dates, quantities and unit costs.

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE COMBAT SEARCH & RESCUE (CSAR) RADIO				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	-	-	2.858	5.776	14.266	15.127	15.011

The Combat Survivor/Evader Locator (CSEL) is a new start program that 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 ge positioning, 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 the Services potential to support non-DoD government agencies.

The CSEL program was following a standard new start acquisition path until the June 1995 shutdown, 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 Test Center, announced the contract award of a cost plus award fee contract (Air Force R&D funds) for the development of CSEL.

Development of the CSEL radios will take approximately 17 months. Award of the first production option is expected in July 1997 with delivery of the first production units in 2nd quarter of FY98.

FY97 Other Procurement funding will purchase the first option of 500 CSEL radio units.

	P-1 SHOPP LIST ITEM NO. 73	PAGE NO. 211	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		CSAR RADIO					See Manufacturing Information on P-5A						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

CSAR RADIOS	B												(2,858)
CSEL RADIOS PROG SPT										500	4,488		2,244 614
TOTAL													2,858

	P-1 SHOPP LIST ITEM NO. 73	PAGE NO. 212	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY

OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

C. P-1 ITEM NOMENCLATURE

CSAR 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
1. CSAR RADIOS FY97	ROCKWELL AUTONETICS CEDAR RAPIDS, IA	OPTION/FFP ¹	AFMC/SMC	JUL 97	FEB 98	500	4,488 ²	NO	YES	JUN 97

D. REMARKS

- 1. OPTION TO FEBRUARY 98 R&D CONTRACT WITH ROCKWELL AUTONETICS
- 2. UNIT COST IS ESTIMATED. QUANTITIES MAY REQUIRE ADJUSTMENT AFTER NEGOTIATION OF PRODUCTION OPTION.

P-1 SHOPP LIST
ITEM NO.

73

PAGE NO.

213

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

"CODE B" ITEM DESCRIPTION (EXHIBIT P-19)		DATE: MARCH 1996		REPORT CONTROL SYMBOL DD-COMP(AR)1082		
APPROPRIATION OPAF	ACTIVITY ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT	P-1 ITEM NOMENCLATURE COMBAT SEARCH & RESCUE (CSAR) RADIO				
ELEMENT OF STUDY		CURRENT (1)	SCHEDULE DATE LAST REPORT (2)	REASON FOR DELAY (3)		
DT&E OPERATION ASSESSMENT JOINT INTEROPERABILITY TEST CENTER CERTIFICATION IOT&E		JAN 97 JUN 97 JUL 97 FEB 98	- - - -			
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: JUL 97						
3. EQUIPMENT ITEM(S) TO BE REPLACED:						
PRC-90 RADIOS PRC-112 RADIOS						
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: THE NEW CSAR RADIO HAS THREE MAJOR IMPROVEMENTS OVER THE EXISTING PRC-90/112 RADIOS. THE FIRST IS A CAPABILITY FOR THE EVADER TO SEND A DATA MESSAGE OVER-THE-HORIZON TO A RESCUE CENTER AND THEN RECEIVE A REPLY FROM THE CENTER. THIS IS THE TWO-WAY OVER-THE-HORIZON REQUIREMENT WHICH DOES NOT EXIST TODAY. SECOND IS INTEGRATION OF A GPS RECEIVER INTO THE HANDHELD RADIO AND THE INTEGRATION THE GPS COORDINATES INTO THE DATA MESSAGE. CURRENT AIRCREWS CARRY BOTH A RADIO AND A GPS RECEIVER. THIRDLY, THE RADIO WILL OPERATE OVER THE FULL MISSION ENVIRONMENT TO INCLUDE TEMPERATURE AND MOISURE.						
5. DEVELOPMENT CONTRACT INFORMATION: RDT&E FUNDING PROFILE (\$ MIL)						
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PYR (4)	CYR (5)	BYR (6)	BEYOND BYR (7)
ROCKWELL AUTO.	CEDAR RAPIDS, IA		0*	0*	9.596	4.865
REMARKS: *CONGRESSIONALLY APPROVED REPROGRAMMING OF \$13.5M IN FY95 FUNDS USED IN FY96 RDT&E EFFORTS FOR NEW START. REF AIR FORCE RDT&E DESCRIPTIVE SUMMARY, MARCH 96.						
			P-1 SHOPP LIST ITEM NUMBER 73	PAGE NUMBER 214	5200P102	

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE RADIO EQUIPMENT					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	19.956	8.438	9.174	12.286	15.016	13.420	14.252	

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 declining support posture, and the move to collocate/close US 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, 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 in Europe (USAFE) and Pacific Air Forces (PACAF).

The SCOPE COMMAND program is divided into two distinct phases. Phase A procures a limited capability to provide Automatic Link Establishment (ALE) to global ground HF radio stations to meet AMC aircraft modification schedules. The Phase A line 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 programs costs include: (a) Site surveys to determine necessary allied support requirement for installation; (b) First article test for factory test of the equipment against stated requirements; (c) Type I factory training; and (d) Engineering/integration for the centralized control definition and other integration efforts required for a full HF capability.

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). FY95 funding provides for the first article unit, testing, and program data; eight site surveys; the first operational station at Offutt AFB, NE; a "lot" of Phase A stations; a training facility at Keesler AFB, MS; training and engineering costs. The Phase A stations are: Hawaii; Andrews AFB, MD; Elmendorf AFB, AK; Croughton, UK and Ascension Island, UK. The FY96 funding provides for five site surveys, an additional lot of Phase A stations (Guam, Japan, Puerto Rico, Diego Garcia, Lajes, Greenland, Turkey and California) and engineers to centralize the net control concept for a "lights-out" capability. FY97 funding provides for the remaining site surveys, the final Phase A lot capability (west cost) , a Phase B station at Andrews AFB, MD, and begins the implementation/integration of the net control "lights out" capability.

	P-1 SHOPP LIST ITEM NO. 74	PAGE NO. 215	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 ITEM NOMENCLATURE RADIO EQUIPMENT						
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

Base closure and DoD HF MAR plans are incorporated into the SCOPE COMMAND program. In the event a location is identified for closure, partial closure, 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. FY95/96 provides funding for procurement of Scope Shield Radios and to upgrade AFOSI land mobile radio trunking systems. FY97 and subsequent funding has been transferred to the Air Force Operations and Maintenance (O&M) Appropriation in accordance with the new DoD expense/investment policy.

3. **ACC LMR RADIOS:** FY96 provides funding for trunked Land Mobile Radio (LMR) systems at Offutt AFB, NE and Seymour-Johnson AFB, SC. These systems will provide trunking infrastructure to manage all radio nets under a single integrated network with significantly reduced bandwidth. FY97 and subsequent funding has been transferred to the Air Force Operations and Maintenance (O&M) Appropriation in accordance with the new DoD expense/investment policy which would permit the purchase of any non-centrally managed equipment in O&M.

4. **ROBINS AFB, GA. LMR TRUNK SYSTEM:** FY95 funding provided for a Ultra High Frequency (UHF) Land Mobile Radio (LMR) trunking system at Robins AFB, GA. No FY97 funding is requested.

P-1 SHOPP LIST
ITEM NO.
74

PAGE NO.
216

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			RADIO EQUIPMENT				See Manufacturing Information on P-5A						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

SCOPE COMMAND HF RADIO STN REPL	A					(19,480)			(7,122)			(9,174)
FIRST ARTICLE TEST						5,199						
TRNG STATION						3,574						
SITE SURVEYS				8		914	5		581	2		232
PHASE A (ALE)				5 ¹	N/A	6,522	8 ¹	N/A	5,500	1 ¹	N/A	2,200
PHASE B (FULL-UP)				1 ¹	VAR	2,844				1 ¹	VAR	4,216
TRAINING						31						23
ENGR/INTEGR.						396			1,041			2,503
2. AFOSI TACTICAL RADIO SYSTEM	A			VAR	N/A	400	VAR	N/A	422			
ACC LMR RADIOS	A						VAR	N/A	894			
4. ROBINS LMR TRNK SYS	A			VAR	N/A	76						
TOTAL						19,956			8,438			9,174

¹ Number of Sites Being Upgraded

P-1 SHOPP LIST
ITEM NO.
74

PAGE NO.
217

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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)										
FY95	ROCKWELL INTL	C/FFP	AFMC/ SM-ALC	FEB 96	AUG 96	5 ¹	VAR ²			
FY96	ROCKWELL INTL	OPT/FFP ³	AFMC/ SM-ALC	AUG 96	APR 97	8 ¹	VAR ²	YES	NO	
FY97	ROCKWELL INTL	OPT/FFP ³	AFMC/ SM-ALC	MAR 97	DEC 97	1 ¹	VAR ²	YES	NO	
	RICHARDSON, TX									
 PHASE B (FULL-UP)										
FY95	ROCKWELL INTL	C/FFP	AFMC/SM-ALC	JUN 95	JUN 96 ⁴	1 ¹	VAR ²			
FY97	ROCKWELL INTL	OPT/FFP ³	AFMC/ SM-ALC	JUL 97	JAN 99	1 ¹	VAR ²	YES	NO	
	RICHARDSON, TX									
2. AFOSI TACTICAL RADIO SYSTEM										
FY95	RACAL	SS/FP	11 CONS	SEP 95	JAN 96	N/A	VAR ⁵			
	ROCKVILLE, MD		BOLLING AFB							
FY96	MOTOROLA, INC	OPT/FP ⁶	11 CONS	MAY 96	JUL 96	N/A	VAR ⁵	YES	NO	
	HANOVER, MD		BOLLING AFB							
3. ACC LMR RADIOS										
FY96	MULTIPLE	OPT/FFP ⁷	HQ ACC	MULTI	MULTI	N/A	VAR ⁵	YES	NO	

D. REMARKS

- INDICATES NUMBER OF STATIONS BEING UPGRADED.
- UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
- AFTER FY95 CONTRACT AWARD, SUBSEQUENT YEARS FUNDING WILL BE EXECUTED THROUGH USE OF DELIVERY ORDERS OFF THE BASIC CONTRACT.
- FIRST ARTICLE TEST
- PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
- OPTION OFF GSA SCHEDULE.
- MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
74	218	

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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
4. ROBINS LMR TRNK SYSTEM FY95	MOTOROLA, INC HANOVER, MD	C/FP	AFMC/WR-ALC	DEC 95	FEB 96	VAR	N/A ⁵			

D. REMARKS

1. INDICATES NUMBER OF STATIONS BEING UPGRADED.
2. UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
3. AFTER FY95 CONTRACT AWARD, SUBSEQUENT YEARS FUNDING WILL BE EXECUTED THROUGH USE OF DELIVERY ORDERS OFF THE BASIC CONTRACT.
4. FIRST ARTICLE TEST
5. PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
6. OPTION OFF GSA SCHEDULE.
7. MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

P-1 SHOPP LIST
ITEM NO.
74

PAGE NO.
219

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TV EQUIPMENT (AFRTV)					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	2.604	2.475	2.402	2.378	2.299	2.354	2.406	

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: FY95-97 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: FY95-97 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.

	P-1 SHOPP LIST ITEM NO. 75	PAGE NO. 220	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			TV EQUIPMENT (AFRTV)					See Manufacturing Information On P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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	2,309	VAR	N/A	2,183	VAR	N/A	2,118
2. AFNEWS PRODUCTION CENTER	A				VAR	N/A	295	VAR	N/A	292	VAR	N/A	284
TOTAL							2,604			2,475			2,402

	P-1 SHOPP LIST ITEM NO. 75	PAGE NO. 221	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	US ARMY/SAAD ¹ MULTIPLE	C/FP/MIPR	AFNEWS	MULTI ²	MULTI ²	VAR	N/A ³			
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	
2. AFNEWS PRODUCTION CENTER										
FY95	GSA SCHEDULE MULTIPLE ⁴	C/FP	AFNEWS	MULTI ²	MULTI ²	VAR	N/A ³			
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	

D. REMARKS

- 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.
- AWARD DATES VARY AND OBLIGATIONS ARE MADE AT THE TIME A DELIVERY ORDER IS PROCESSED.
- UNIT COSTS VARY WITH EQUIPMENT TO BE PROCURED.
- 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.
76

PAGE NO.
222

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		2.720	5.678	3.958	3.983	3.299	3.379	3.453

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 playing an indispensable role in Air Force operations, readiness, 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. Additionally, this funding is replacing older television studio systems with newer and more portable equipment and systems for Air Force television production, video teleconferencing and Distance Learning 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. FY95-97 CCTV/AV projects are described below.

- 1. ELECTRONIC IMAGING SYSTEMS:** FY95-97 funding continues procurement of the 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 provide greater response and flexibility to all users of visual imagery. This transition is reducing industrial space requirements and has reduced reliance on environmentally hazardous photographic chemicals. The equipment being procured is standardized to ensure compatibility and Interoperability.
- 2. IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:** FY95-97 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 funding allows 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.
- 4. COMBAT CAMERA SYSTEMS:** This program provides funding for mobile camera systems to replace aging Nitecams, combat documentation video cameras and portable video recorders for combat camera crews Air Force-wide. These lighter systems allow for greater peak work output per combat cameraman, less fatigue, and a smaller profile to enemy fire. Their low cost provides a thirty percent greater capability than older, more expensive versions. Mobile image transmission systems that establish near real-time image transmission to provide commanders greater flexibility in decision-making. Effective April 1996, the 2nd Combat Camera Squadron (2 CTCS) located at March AFB, CA, will inactivate and turn its mission over to the Air Force Reserves (AFR) who will establish the 4th CTCS. All 2nd CTCS equipment resources will be turned over to the 4th CTCS who will not require additional outfitting until after FY97. This

	P-1 SHOPP LIST ITEM NO. 76	PAGE NO. 223	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In M\$)								

Transfer in mission roles should not be viewed as savings since the mission will continue to consume equipment at the same rate. Prior year funds provided equipment for units at Charleston AFB, SC; Lackland AFB, TX; Hurlburt Field, FL; Rhein-Main AB, GE; and Elmendorf AFB, AK. FY96-97 funding continues the procurement of these systems for additional units located at Charleston AFB, SC and units at March AFB, CA.

5. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS: In FY94, Air Education and Training Command (AETC) began a project called Distance Learning which was an initiative designed to accommodate the Field Training Detachment drawdown by "piping" training from Sheppard AFB, TX to remotely located classrooms. The Sheppard facility will ultimately export 123 courses covering over 5000 hours of instruction. Current plans call for broadcasting over 1000 hours in video tele-seminar training in FY95 and increasing to 2000 hours by FY98. FY96 funds will procure uplink and studio equipment for Keesler AFB, MS and expand the existing uplink and studio capabilities at Maxwell and Sheppard AFBs. Additionally, FY96 funds will procure downlink and classroom equipment for Lackland Training Annex (Medina) in San Antonio, TX and studio enhancements and dubbing facilities at Maxwell AFB, AL. FY97 funds will continue the distance learning initiative with procurement of additional channel and classroom equipment at bases to support an expanded broadcast schedule for Air University, Air Force Institute of Technology, and AETC's training needs.

6. AFIS/MMRC CONSOLIDATION: In FY94 the Chief of Staff/Air Force directed the reorganization of the Air Combat Camera Service (AIRCCS) that included the transfer of the Motion Media Records Center (MMRC) to the American Forces Information Service (AFIS). FY95 funded the first year of that transfer. All subsequent year MMRC funding was transferred directly from the Air Force to the AFIS budget. No FY97 funding requested.

7. REMOTE MONITORING FACILITY: This project provided funding for a Video Remote Monitoring System in Incirlik AB, Turkey, to insure security at a weapons storage facility. No FY97 funding requested.

	P-1 SHOPP LIST ITEM NO. 76	PAGE NO. 224	
--	----------------------------------	-----------------	--

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE
MARCH 1996

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 1995			FY 1996			FY 1997		
		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	914	VAR	N/A	975	VAR	N/A	981
2. IMAGE ACQ/TV STUDIO EQUIPMENT	A				VAR	N/A	800	VAR	N/A	975	VAR	N/A	1,000
3. INTERACTIVE VIDEODISC (IVD)	A							VAR	N/A	61	VAR	N/A	126
4. COMBAT CAMERA SYS	A				VAR	N/A	186	VAR	N/A	1,000	VAR	N/A	1,000
5. VIDEO TELECONF/ DISTANCE LEARNING SYSTEMS	A							VAR	N/A	2,667	VAR	N/A	851
6. AFIS/MMRC CONSOL	A				VAR	N/A	260						
7. REMOTE MON. FACILITY	A				VAR	N/A	560						
TOTAL							2,720			5,678			3,958

P-1 SHOPP LIST ITEM NO.
76

PAGE NO.
225

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	MULTIPLE ¹	C/FP/MIPR	AFMC ¹	MULTI ²	MULTI ²	VAR	N/A ³			
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										
FY95	MULTIPLE ¹	C/FP	AFMC ¹	MULTI ²	MULTI ²	VAR	N/A ³			
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	
3. INTERACTIVE VIDEODISC (IVD)										
FY96	MULTIPLE ¹	C/FP	AFMC ¹	MULTI ²	MULTI ²	VAR	N/A ³	YES	NO	
FY97	MULTIPLE ¹	C/FP	AFMC ¹	MULTI ²	MULTI ²	VAR	N/A ³	YES	NO	

D. REMARKS

- 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.
- THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
- THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITY AND UNIT COSTS VARY.
- FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
- 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.
76

PAGE NO.
226

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

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										
FY95	T-ASA ⁴ MULTIPLE	C/FP/MIPR	AFMC ¹	MULTI ²	MULTI ²	VAR	N/A ³			
FY96	T-ASA ⁴ MULTIPLE	C/FP/MIPR	AFMC ¹	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	
5. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS										
FY96	DECCO ⁵ MULTIPLE	C/FP/MIPR	HQ AETC	MULTI ²	MULTI ²	VAR	N/A ³			
FY97	DECCO ⁵ MULTIPLE	C/FP/MIPR	HQ AETC	MULTI ²	MULTI ²	VAR	N/A ³	YES	NO	
6. AFISMMRC CONSOLIDATION										
FY95	T-ASA ⁴ MULTIPLE	C/FP/MIPR	11SUW	MULTI ²	MULTI ²	VAR	N/A ³			

D. REMARKS

- 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.
- THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
- THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITY AND UNIT COSTS VARY.
- FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
- 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.
76

PAGE NO.
227

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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
7. REMOTE MONITORING FACILITY FY95	BECHTEL CORP SAN FRANCISCO, CA	OPT/FFP	AFMC/ESC	DEC 95	JUN 96	VAR	N/A ³			

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. QUANTITY 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.

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
MARCH 1996**

APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000					
QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
COST (In MH)	9.132	5.593	9.714	10.936	10.744	10.162	15.933	

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 Table of Allowance (TA) equipment and replacement power conditioning equipment. Miscellaneous TA 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 FY95-97 funding are described below:

1. TABLE OF ALLOWANCE (TA) 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 Tables of Allowance (TA) 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. FY97 funds continue funding for Air Force TA 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. FY97 funds continue PCCIE procurement for multiple Air Force programs.

ARMS CONTROL: The Arms Control Program funds procurement of ground equipment for Wright-Patterson AFB Open Skies Media Processing Facility to process Synthetic Aperture Radar (SAR) magnetic tape. The Open Skies Treaty is an international confidence-building measure which encourages openness and transparency with unarmed observation overflights. As permitted by the treaty, data received from fully operational capable aircraft is sent to the Open Skies Media Processing Facility for analysis. FY95 funding procured automation equipment to support this effort. No FY97 funding is requested.

P-1 SHOPP LIST
ITEM NO.
79

PAGE NO.
229

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		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						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1994			FY 1995			FY 1996			FY 1997		
Weapon System Cost Elements	IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. TABLE OF ALLOWANCE AUTHORIZATIONS	A				VAR	N/A	2,593	VAR	N/A	2,680	VAR	N/A	2,849
2. PCCIE	A				VAR	N/A	4,098	VAR	N/A	2,913	VAR	N/A	6,865
3. ARMS CONTROL	A				VAR	N/A	2,441						
TOTAL							9,132			5,593			9,714

	P-1 SHOPP LIST ITEM NO. 79	PAGE NO. 230	Exhibit P-5 Weapon System Cost Analysis
--	----------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		17.066	9.657	14.211	41.648	41.187	37.910	50.133

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 FY95-FY97 are ongoing or planned for the following systems: Atmospheric Early Warning System (AEWS), Air Traffic Control and Landing Systems (ATCALs), and Weather Observation and Forecast. 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/FYQ-93** computer is at the core of the AEWS regional and sector operations control centers (ROCC/SOCC's). It receives radar plot data from associated AEWS radar sensors, processes and converts these radar inputs, then passes the information to the operations centers. The users of the AN/FYQ-93 are Air Combat Command (ACC), Pacific Air Force (PACAF), and NORAD. The eight AN/FYQ-93 systems include one NORAD Software Support Facility (NSSF), one System Hardware Sub-Segment (SHSS) used for hardware training and engineering, and six operational systems.

b. 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.

	P-1 SHOPP LIST ITEM NO. 80	PAGE NO. 231	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

AEWS MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
23B	AN/FYQ-93 ETHERNET INTERFACE	9.745	.059				
38516B	AN/FPS-117 RELIABILITY, MAINT & SUPR IMPROVEMENT		14.000		5.048	5.078	0.350
	TOTAL	9.745	14.059		5.048	5.078	0.350

2. **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	FY95	FY96	FY97	FY98	FY99
B7162	AIR SURVEILLANCE RADAR, VIDEO MAPPER	2.949	.243				
B7165	AN/TPN-19 LANDING CONTROL			7.100		8.987	8.790
B7167	AN/TRN-41 ANT TRANSMITTER				7.296	1.030	
	MISC LOW COST MOD		.070				
	TOTAL	2.949	.313	7.100	7.296	10.017	8.790

	P-1 SHOPP LIST ITEM NO. 80	PAGE NO. 232	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMM-ELECTRONICS MODIFICATIONS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

3. 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	FY95	FY96	FY97	FY98	FY99
B7127	AN/FMQ-8 DEW POINT SENSOR		1.200				
B7126	QRCT WX COMM		1.494	1.492			
TBD	AN/UMQ-12 MARWIN UPPER AIR SOUNDING SYSTEM				0.760		
TBD	WSR-88D (NEXRAD) TRANSMITTER				1.107	3.350	5.800
B7266	AN/FMQ-8 PACER CARD			1.065			
	TOTAL		2.694	2.557	1.867	3.350	5.800

4. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	-		0.084	-		0.000
FY96	-		0.000	-		0.000
FY97	-		1.372	-		0.000

	P-1 SHOPP LIST ITEM NO. 80	PAGE NO. 233	
--	----------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

MARCH 1996

**EXHIBIT P-3N
MODIFICATION INSTALLATION SUMMARY**

(TOA, Dollars in Millions)
Title

System/Modification: Comm-Electronics

Mod #

PY FY95 FY96 FY97 FY98 FY99 FY00 FY01

Atmospheric Early Warning System (AEWS)

38516B AN/FPS-117 Reliability, Maint & Supportability Improvement

.2 .7 .3*

AEWS TOTAL

.2 .7 .3*

COMM-ELECTRONICS GRAND TOTAL

.2 .7 .3*

* Less Than \$50k

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/FPS-117 Reliability, Maintainability, and Supportability (RMS) Improvement, 385168

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 from the preprocessor (PP), and replace the Operations Control Group (OCG) with open system architecture technology. If this modification is not funded, continuing system deficiencies will result in increased logistics support cost, reduced reliability/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. FY 95 funds obligated Feb 96. The total requirement is for 38 kits funded FY96 through FY98. FY95 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)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		T C	TOTAL
	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	0.6										1.0
Interim Contractor Support																
Installation of Hardware																
(FY) Eqp't (Kits)																
(FY95) Eqp't (19 Kits)					7	0.2	12	0.4							19	0.6
(FY96) Eqp't (Kits)																
(FY97) Eqp't (11 Kits)							10	0.3	1						11	0.3 * Less Than \$50K
(FY98) Eqp't (8 Kits)									8	0.3					8	0.3
(FY99) Eqp't (Kits)																
(FY00) Eqp't (Kits)																
(FY01) Eqp't (Kits)																
(FY (TC) Eqp't (0 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	5.1	0.3						38	24.4

Method of Implementation: Contractor	Administrative Lead Time: 18 Months												Production Lead Time: 12 Months				TOTAL	
	FY95: Feb 96		FY96:		FY97: Oct 96		FY98: Oct 97		FY99:		FY99:		FY99:					
Contract Dates:	FY95: Jun 97		FY96:		FY97: Apr 98		FY98: Mar 98		FY99:		FY99:		FY99:					
Delivery Dates:	FY95: Jun 97		FY96:		FY97: Apr 98		FY98: Mar 98		FY99:		FY99:		FY99:					
Installation Schedule	PY	FY 95			FY 96			FY 97			FY 98			FY 99				
		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

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/TPN-19 Landing Control Upgrade, 87165

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-25 Precision Approach radar which provides final approach service from 15 nautical miles (NMI) to touch down using phased array pencil beam technology. The second shelter contains an AN/TPN-24 Airport Surveillance Radar with digital moving target indicators which provides coverage for a 60 NMI area around an airfield. The AN/TPN-19 also has two operations shelters that accommodate seven air traffic controllers and two assistant positions. This modification will replace four 20-plus year old leaky, costly to maintain, shelters with new structurally sound shelters. The displays and communications switch in the operations shelter will also be replaced with state-of-the-art equipment. This modification will also provide for fiber optic link between the various shelters of the AN/TPN-19. If this modification is not funded, this system will have continued degraded maintainability and increased O&M costs due to engineering projects to identify replacement items for obsolete parts. Also, the flying mission at deployed locations (i.e. Desert Storm/Shield and Provide Comfort) could be severely impacted. The total requirement is for 11 kits funded FY96 through FY99. FY96 funds one kit and covers nonrecurring cost. FY98/99 continues with five kits per year.

Development Status/Major Development Milestones: CCB Dec 95; Specification and SOO completion Dec 95; RFP Feb 96

Financial Plan: (\$ In Millions)

	FY Qty	FY 95 Cost	FY 96 Qty Cost	FY 97 Qty Cost	FY 98 Qty Cost	FY 99 Qty Cost	FY 00 Qty Cost	FY 01 Qty Cost	T C Qty Cost	TOT AL Qty Cost
RD&E: None										
Procurement										
Kit Quantity										
Installation Kits										
Installation Kit Nonrecurring										
Equipment			1 1.7		5 8.8	5 8.8				11 19.3
Equipment Nonrecurring			5.1		0.2					5.3
Engineering Change Orders										
Data			0.3							0.3
Training Equipment										
Support Equipment										
Other										
Interim Contractor Support										
Installation of Hardware										
(FY) Eqpt (Kits)										
(FY96) Eqpt (Kits)										
(FY96) Eqpt (1 Kits)					1					1
(FY97) Eqpt (0 Kits)										
(FY98) Eqpt (5 Kits)						5				5
(FY99) Eqpt (5 Kits)							5			5
(FY00) Eqpt (Kits)										
(FY01) Eqpt (Kits)										
(FY (TC) Eqpt (0 Kits)										
Total Installation Cost					1	5	5			11
Total Procurement Cost			1 7.1		5 9.0	5 8.8				11 24.9

Method of Implementation: Contractor

	Contract Dates										Administrative Lead Time: 5 Months				Production Lead Time: 10 Months				TOTAL		
	FY95		FY96: Jun 96		FY97:		FY98: Mar 98		FY99: Oct 98		FY99: Jun 99		FY 00								
Contract Dates	FY95	FY95	FY96: Mar 96	FY96: Mar 96	FY97:	FY97:	FY98: Dec 98	FY98: Dec 98	FY99: Oct 98	FY99: Oct 98	FY99: Jun 99	FY99: Jun 99	FY99: Jun 99	FY 00	FY 00	FY 00	FY 00				
Delivery Dates																					
Installation Schedule	PY	FY 95	FY 96	FY 96	FY 97	FY 97	FY 98	FY 98	FY 99	FY 99	FY 99	FY 99	FY 99	FY 00	FY 00	FY 00	FY 00				
Input		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3					
											1			1	1	1	2	2			
Output											1			1	1	1	2	2	2	1	11

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/TRN-41 Antenna 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 for 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 funded FY97 and

Development Status/Major Development Milestones: CCB Feb 96; Specification and SOO completion May 96; RFP Jul 96

Financial Plan: (\$ in Millions)	FY		FY 95		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	Qty	Cost	
RDISE: None																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecuring																					
Equipment							50	5.0	10	1.0									60	6.0	
Equipment Nonrecuring								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)																					
(FY95) Eqpt (Kits)																					
(FY96) Eqpt (Kits)																					
(FY97) Eqpt (60 Kits)							1		49										50		User installed.
(FY98) Eqpt (10 Kits)									10										10		User installed.
(FY99) Eqpt (Kits)																					
(FY00) Eqpt (Kits)																					
(FY01) Eqpt (Kits)																					
(FY (TC) Eqpt (0 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: 9 Months				TOTAL
	FY95		FY96:				FY97: Nov 96				FY98: Nov 97				FY99:						
	FY95		FY96:		FY97: Jul 97		FY 97		FY 98		FY 98		FY 99:		FY 99:						
Contract Dates	PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Delivery Dates																					
Installation Schedule																					
Input											1	24	25	10				60			
Output											1	24	25	10				60			

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: AN/UMQ-12 Marwin Upper Air Sounding System

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The AN/UMQ-12 Marwin Upper Air Sounding System relies on the Omega navigation system to locate and compute upper level meteorological data. The Office of the Federal Coordinator for Meteorological Services and Support Research notified all users the Omega and Loran-C systems are being transitioned to the Global Positioning System (GPS). Because of this, the Marwin system must be modified to be compatible with GPS. If not funded, DOD worldwide weather support will be severely degraded since the MARWIN upper air soundings provide the data needed for development of forecasts and warnings. FY97 funds will procure 22 kits thru a Navy contract.

Development Status/Major Development Milestones: CCB, May 96; MIPR Nov 96

Financial Plan: (\$ In Millions)

	PY		FY 95		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	Qty	Cost	
RDT&E: None																					
Procurement																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecuring Equipment							22	0.8											22	0.8	
Equipment Nonrecuring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eapt (Kits)																					
(FY95) Eapt (Kits)																					
(FY96) Eapt (Kits)																					
(FY97) Eapt (22 Kits)																					
(FY98) Eapt (Kits)									22										22		User Installed
(FY99) Eapt (Kits)																					
(FY00) Eapt (Kits)																					
(FY01) Eapt (Kits)																					
(FY (TC) Eapt (0 Kits)																					
Total Installation Cost									22										22		User Installed
Total Procurement Cost							22	0.8											22	0.8	

Method of Installation: User Installed.

Contract Dates

Delivery Dates

Installation Schedule

Input

Output

PY	FY95		FY96		FY97: Feb 97 FY97: Nov 97				FY 98				FY 99				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
	1																22
																	22

UNCLASSIFIED
EXHIBIT P3A
INDIVIDUAL MODIFICATIONS

MARCH 1996

Modification Title and No: WSR-88D (NEXRAD) Transmitter Upgrade

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WSR-88D Weather Surveillance Radar (NEXRAD) transmitter is experiencing a higher than expected failure rate. Weather forecasting and severe storm tracking capabilities, due to unserviceable equipment, are adversely affecting flight safety and resource protection. Several major Line Repairable Units (LRUs) have a higher than anticipated mean-time-to-repair resulting in higher repair costs, and higher maintenance man-hours. A limited number of serviceable spares were provisioned to support the transmitter during its life cycle. With higher LRU failure rates and repair times, serviceable assets are not always available to support the logistics requirements. Additional manpower is required at maintenance locations to support the increased workload. Total logistics and maintenance costs are excessive. This mod will reduce maintenance man-hours and logistics costs while increasing the equipment serviceability rate to meet or exceed 80%. FY97 funds will procure 4 kits, FY98 funds will procure 9 kits, and FY99 funds will procure 19 kits.

Development Status/Major Development Milestones: CCB, May 96; MIPR Nov 96

Financial Plan: (\$ in Millions)

	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		T C		TOT AL		
	Qty	Cost	Qty	Cost	Qty	Cost													
RDT&E: None																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecuring Equipment							4	1.0	9	2.3	19	4.8					32	8.1	
Equipment Nonrecuring																			
Engineering Change Order Data									0.7		1.0								1.7
Training Equipment																			
Support Equipment									0.3										0.3 * Less Than \$50,000
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(FY) Ecpd (Kits)																			
(FY95) Ecpd (Kits)																			
(FY96) Ecpd (Kits)																			
(FY97) Ecpd (4 Kits)									4									4	User Installed
(FY98) Ecpd (9 Kits)									6		3							9	User Installed
(FY99) Ecpd (19 Kits)											18		1					19	User Installed
(FY00) Ecpd (Kits)																			
(FY01) Ecpd (Kits)																			
(FY (TC) Ecpd (0 Kits)																			
Total Installation Cost									10		21		1					32	User Installed
Total Procurement Cost							4	1.1	9	3.3	19	5.8						32	10.1

Method of Installation: User Installed

Contract Dates Delivery Dates Installation Schedule	PY	Administrative Lead Time: 1 Month												Production Lead Time: 13 Months						TOTAL					
		FY95		FY96		FY97: Dec 96		FY98: Dec 97		FY99: Dec 98		FY99: Mar 99		FY 99		FY 00									
		FY 95		FY 96		FY 96		FY 97		FY 98		FY 98		FY 99		FY 00									
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4			
Input													1	3	3	3	3	6	6	6	1				32
Output													1	3	3	3	3	6	6	6	1				32

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

241

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)
 A. DATE MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE	
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE	FY97	MECHANIZED MATERIAL HANDLING EQUIPMENT	
COST ELEMENT/ FISCAL YEAR FY97	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY
AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST
SPECS AVAIL NOW	SPECS REV REQ'D	IF YES, WHEN AVAIL	

4. AFSPC	Clear AFB, AK (1) HDSS Bldg 250	UNKNOWN	C/FFP	AFMC/ASC	May 97	Jan 98	1	400	No	400	SUB TOTAL - AFSPC	5. AMC	Army Corp of Engineers	UNKNOWN	C/FFP	AFMC/ASC	Feb 97	Feb 98	1	1,440	No	1,440	SUB TOTAL - AMC	6. ANG	A. Lincoln ANG, NE (1) RS/DS IOE FY96 MCP NGCB919717	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 97	1	300	No	300	Oct 96	Little Rock ANG, AK (1) Base Supply FY96 MCP NKAK939897	UNKNOWN	C/FFP	AFMC/ASC	Jul 97	Oct 97	1	400	Yes	400	Apr 96	C. Peoria ANG, IL (1) Aerial Delivery Facility MCP JLQ939877	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 96	1	350	No	350	May 96
----------	------------------------------------	---------	-------	----------	--------	--------	---	-----	----	-----	-------------------	--------	---------------------------	---------	-------	----------	--------	--------	---	-------	----	-------	-----------------	--------	--	---------	-------	----------	--------	--------	---	-----	----	-----	--------	---	---------	-------	----------	--------	--------	---	-----	-----	-----	--------	--	---------	-------	----------	--------	--------	---	-----	----	-----	--------

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE MARCH 1996	
B. APPROPRIATION/BUDGET ACTIVITY			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		FY96	
C. P-1 ITEM NOMENCLATURE			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY
UNIT COST	DATE OF FIRST DELIVERY	AWARD DATE	QUANTITY
SPECS AVAIL NOW	IF YES, SPEC REV	IF YES, WHEN AVAIL	

8. US Air Force Wide		A. Logistics App Auto Mark and Reading Symbols (LOGMARS)		(1) BCE Auto Identification System		SUB TOTAL - USAF WIDE		TOTAL FY96 PROGRAM	
UNKNOWN	C/FFP	AFMC/ASC	Apr 96	Oct 96	1	465	465	465	6351
									Mar 96

D. REMARKS		
P-1 SHOP LIST ITEM NO. 89	PAGE NO. 47	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY: 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	SPECS REV REQ'D	IF YES, WHEN AVAIL
------------------------------	-------------------------	------------------------------	---------------	---------------	------------------------------	----------	--------------	-----------------------	-----------------------	--------------------------

6. ANG	A. Rickenbacker ANGB, OH Distribution (RS/DS) MCP NIZG939686	UNKNOWN	C/FFP	AFM/C/ASC	Jul 97	1	221	Yes	No	
7. USAF	A. Ramstein AFB, GE (1) Hazmat CP TYFR879008	UNKNOWN	C/FFP	Ramstein AFB, GE	Aug 96	1	100	Yes	No	
	B. Frankfurt AFB, GE (1) Air Mail Terminal	UNKNOWN	C/FFP	AFM/C/ASC	Aug 96	1	3000	Yes	No	
	SUB TOTAL- ANG						271			
	SUB Total - USAF						3100			

D. REMARKS

P-1 SHOP LIST
ITEM NO. 89

PAGE NO.
46

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)
 A. DATE MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY
 C. P-1 ITEM NOMENCLATURE
 OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96

COST ELEMENT/ FISCAL YEAR FY96	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES, WHEN AVAIL
--------------------------------------	-------------------------	------------------------------	---------------	---------------	------------------------------	----------	--------------	-----------------------	-----------------------	--------------------------

1. AFCSA	Sheppard AFB, TX (1) Storage Aid System (SAS) MCP FY95VNVPA82005	UNKNOWN	C/FFP	Jul 96	Aug 96	1	200	Yes	No	Mar 96
	B. Goodfellow AFB, TX (1) SAS CE FY96 MCP JCGU88C901	UNKNOWN	C/FFP	JUL 96	Sep 96	1	150	No	No	Mar 96
SUB TOTAL - AFCSA 350										
2. AFMC	A. Arnold AFB, TN (1) High Density Storage Sys (HDS) HAZMAT FY95 96003	UNKNOWN	C/FFP	Aug 96	Feb 97	1	200	Yes	No	
SUB TOTAL - AFMC 200										
	A. Homestead AFB, FL (1) RS/DS FY95 MCP HACC943062	UNKNOWN	C/FFP	Jul 96	May 97	1	507	No	No	Mar 96
SUB TOTAL - AFRES 507										

D. REMARKS

EXHIBIT P-5a Procurement History and Planning

P-1 SHOPP UST ITEM NO. 89

PAGE NO. 44

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												D. DATE MARCH 1996	
A. APPROPRIATION/BUDGET ACTIVITY			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE			D. DATE MARCH 1996				
TITLE/NO. OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			MECHANIZED MATERIAL HANDLING EQUIPMENT			MULTIPLE CONTRACTORS							
Weapon System Cost			FY 1995			FY 1996			FY 1997				
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

11. HQ USAF												400	
A. Boiling AFB, DC													
(1) Base Supply													
Mezzanine													
Subtotal: HQ USAF												400	
12. Items Under \$200 Thousand													
A. AMC-Lajes Field AZ													
(1) Mech of Air Freight													
Terminal (AFT)													
Subtotal: Items under \$200K												50	
US Air Force Wide													
A. Logistics Applications													
Automatic Marking and													
Reading Symbols													
(LOGMARS)													
(1) BCE Auto													
Identification System												50	
P-1 SHOPP LIST													
ITEM NO. 89													
PAGE NO.												42	
Exhibit P-5 Weapon System Cost Analysis													

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE

MARCH 1996

A. APPROPRIATION/BUDGET ACTIVITY		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE		D. DATE	
TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		MECHANIZED MATERIAL HANDLING EQUIPMENT		MULTIPLE CONTRACTORS			
Weapon System Cost		FY 1995		FY 1996		FY 1997	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	TOTAL COST

PACAF		10. USAF		Subtotal PACAF		Subtotal of USAF	
A. Eielson AFB AK (1) HDS Bldg 1306 SAS IOE FY95 AGS/APS FY96 MCP FTQW933033		A. Ramstein AFB, GE (1) HAZMAT FY94 MCP TYFR879008		B. Frankfurt AB, GE (1) Air Mail Terminal		C. Spangdahlem AB (1) Mobility Whse IOE VYHK943005	
A		A		A		A	
QTY		QTY		QTY		QTY	
UNIT COST		UNIT COST		UNIT COST		UNIT COST	
TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
			100			3,100	800
							800
							225
							225

UNCLASSIFIED

P-1 SHOPP LIST
ITEM NO. 89

PAGE NO.
41

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE			LOCATION			MULTIPLE CONTRACTORS			
SUPPORT EQUIPMENT													OPAF/OTHER BASE MAINTENANCE AND		TITLE/NO.	
Weapon System Cost		IDENT CODE	FY 1995		FY 1996		FY 1997		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
Elements			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		

3. Air Force Materiel Command (AFMC)														
A. Robins AFB, GA (1) Vertical Carousel System (VCS) DMSC Bldg 645														
B. Arnold AFB TN (1) High Density Storage System (HDSS) HAZMAT FY95 MCP 963003														
C. Edwards AFB, CA (1) Flight Test F-22 FY96 MCP 963506														
Subtotal of AFMC														
A														250
A														250
A														500

UNCLASSIFIED

P-1 SHOPP LIST ITEM NO. 89			PAGE NO. 36			Exhibit P-5 Weapon System Cost Analysis		
-------------------------------	--	--	----------------	--	--	---	--	--

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
D. DATE MARCH 1996											
A. APPROPRIATION/BUDGET ACTIVITY			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE			LOCATION		
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT											
MECHANIZED MATERIAL HANDLING EQUIPMENT											
MULTIPLE CONTRACTORS											
Weapon System Cost		IDENT CODE		FY 1995		FY 1996		FY 1997			
QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

2. Air Force Civil Engineering Support Agency (AFCEA)											
Air Combat Command (ACC)											
Subtotals of ACC											
A. Misc Storage Aid Systems (SAS)											
Subtotals of AFCEA											
A. Sheppard AFB TX (1) Storage Aids System MCP FY95 VNP862005											
B. Goodfellow AFB TX (1) Storage Aids System (SAS) FY95 MCP JCGU88C901											
C. Storage Aids Systems											
Subtotal of AFCEA											
A										1,504	1,504
A										400	400
A										350	400

Exhibit P-5 Weapon System Cost Analysis

PAGE NO.

35

P-1 SHOPP LIST ITEM NO. 88

UNCLASSIFIED

UNCLASSIFIED

ITEM NO. 86 32

P-1 SHOP LIST

REMARKS:

6300

0
 0
 0
 0
 0
 0

0
 0
 6300
 6300
 0
 0

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

Air National Guard Requirement

Air Force Reserve Requirement

TOTAL REQUIREMENT

APPROVED ACQUISITION OBJECTIVE

PROCURMENT REQUIREMENT

Total FY97 Requirement

Less Net Assets

Required FY97 Procurement

Planned FY97 Procurement

APPROPRIATION / BUDGET ACTIVITY: OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT
 DATE: MARCH 1996
 P-1 ITEM NOMENCLATURE: UNIVERSAL WATER ACTIVATED RELEASE SYSTEM

UNCLASSIFIED REQUIREMENTS STUDY

FY92
 FY93
 FY94
 FY95
 FY96

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY92
 FY93
 FY94
 FY95
 FY96

ACTUAL TRAINING EXPENDITURE

NET ASSETS:

PROCURMENT LEADTIME: _____ months

TOTAL DISPOSALS (MONTHS)

FY00:
 FY99:
 FY98:
 FY97:

FY96 since as of date:

DISPOSALS (Planned & Projected through FY97 FDP)

TOTAL ASSETS:

Due-in w/FY96 Funds

Due-in w/all Prior Years' Funds

On Hand as of 31 Mar 95

ASSETS

6793
 6300
 493
 493
 493

6793

6793

425

1411

4957

0

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

D. DATE

MARCH 1986

A. APPROPRIATION/BUDGET ACTIVITY		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE		TITLE/NO.		OPAF/Other Base Maintenance and Support Equipment	
Weapon System Cost		FY 1995		FY 1996		FY 1997		IDENT CODE	
QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	TOTAL COST	TOTAL COST

706									
12									
250									
968									

Universal Water Activated Release System
 A. Data
 B. Technical Data Rights
 Total

UNCLASSIFIED

Exhibit P-5 Weapon System Cost Analysis	PAGE NO. 29	P-1 SHOPP LIST ITEM NO. 86
---	-------------	----------------------------

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION

(EXHIBIT P-40)

P-1 ITEM NOMENCLATURE

UNIVERSAL WATER ACTIVATED RELEASE SYSTEM

APPROPRIATION/BUDGET ACTIVITY

OP&A/Other Base Maintenance and Support Equipment

QUANTITY	COST (in Mil)	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
					\$0.968	\$0.000	\$0.000	\$0.000
			\$7.415					
			\$0.000					

1. The Universal Water Activated Release System (UWARS) is personal life support equipment which can prevent loss of life when a crew member ejects/balls-out from a disabled aircraft over water. One of the greatest threats to survival when this occurs is drowning. The drowning risk increases significantly if the crew member is unable to separate from the parachute canopy once in the water. The potential for a crew member to become entangled in the lines and/or canopy and dragged under water is considerable. Additionally, high winds can keep the canopy inflated and drag the crew member uncontrolled through high seas, again significantly increasing the likelihood of drowning. All existing parachutes are equipped with manual parachute releases which a conscious uninjured crew member can use to separate himself from the canopy. The UWARS was developed to solve the problem for injured/unconscious crew members. On contact with sea water the UWARS will automatically activate thereby releasing the parachute canopy.

2. UWARS will replace the current system which was developed with 1960's technology and does not satisfy safety and reliability requirements. UWARS has a built-in-test capability which provides real time go/no go indication for system functionality and requires no support equipment. The UWARS incorporates state-of-the-art electro-explosives technology, is 25 percent lighter, smaller, costs less, requires less inspection and maintenance time, is compatible with all parachute release systems and is easier to use than the old release.

3. The UWARS is compatible with F-4, F-15, F-16, F-22, A-10, B-1, B-52, B-2, F-117, and all 135 series aircraft. It is being evaluated for compatibility with U-2, TR-1, and SR-71 aircraft.

4. ANG/AFR:

	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	0	\$1,586,250	0	0	\$415,950
FY96	1350	\$ 87,352	71	354	\$101,672
FY97	61				

UNCLASSIFIED

P-1 SHOPP LIST
ITEM NO. 88

PAGE NO.
28

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE MARCH 1996	
B. APPROPRIATION/BUDGET ACTIVITY			
C. P-1 ITEM NOMENCLATURE: BREATHING APPARATUS, TWO HOUR			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY
			AWARD DATE
			DATE OF FIRST DELIVERY
			QUANTITY
			UNIT COST
			SPECS AVAIL NOW
			SPECS REV REQ'D
			IF YES, WHEN AVAIL

FY95	Breathing Apparatus, Two Hour	Intersero Mfg Brandford, CT	Option	AFMCMWR-ALC GA	May 95	Aug 95	1,824	1,056	2,069 ²	Yes	No
FY96		Intersero Mfg Brandford, CT	Option	AFMCMWR-ALC GA	Mar 96	May 96	1,824	1,056	2,069 ²	Yes	No
FY97		Intersero Mfg Brandford, CT	Option	AFMCMWR-ALC GA	Nov 96	Nov 96	963	963	2,069	Yes	No
FY95	Chemical Kit	Intersero Mfg Brandford, CT	Option	AFMCMWR-ALC GA	May 95	Nov 95	1,774	1,774	314		No
FY96		Intersero Mfg Brandford, Ct	Option	AFMCMWR-ALC GA	Mar 96	Mar 96	3077	3077	301	Yes	No

Remarks		
1. Option to FY92 C/FFP contract		
2. Unit cost increase due to product improvement to provide hatch in the face piece to allow the user to breath ambient air without removing the face mask.		
3. Option to FY93 C/FFP contract		
4. FY96 unit cost based on FY93 contract plus 10% and \$70.50 per unit for ECP		
P-1 SHOPP LIST ITEM NO. 88	PAGE NO.	Exhibit P-5a Procurement History and Planning
	25	

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
D. DATE		A. APPROPRIATION/BUDGET ACTIVITY							
MARCH 1996		B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE			
		BREATHING APPARATUS, TWO HOUR				INTERSPERO MANUFACTURING BRANDFORD CT			
		OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT							
		TITLE/NO.							
		WEAPON SYSTEM COST				Elements			
		FY 1995		FY 1996		FY 1997			
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
		TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY

Breathing Apparatus, Two Hour	A	1,824	1,770	3,228	1,056	2,069	2,186	963	2,069	1,993
Support Equipment		62	5,157	320						
Other Misc Costs			107							
ECP		824	71	58						
Chemical Warfare Kit	A	1,774	314	557	3,077	301	927			3,113
Total				4,270						1,993

UNCLASSIFIED

P-1 SHOPP LIST	ITEM NO. 88	PAGE NO.	24	Exhibit P-5 Weapon System Cost Analysis
----------------	-------------	----------	----	---

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION

(EXHIBIT P-40)

P-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY

OPAF/Other Base Maintenance and Support Equipment

QUANTITY	COST (in Mil)	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
	\$4,270							
	\$3,113							
	\$1,993							
	\$0,000							
	\$0,000							
	\$0,000							

DATE

MARCH 1996

1. This new generation, state of the art, breathing apparatus is self-contained, lightweight, and capable of providing two hours of air to the user. While Air Force fire fighters are the primary users, it is also used by other personnel, such as Explosives Ordnance Disposal, who have disaster response duties and are required to be in close proximity to accident sites and, therefore, require protection from toxic smoke and fumes.

2. This breathing apparatus meets the National Fire Protection Association standard for a self-contained breathing apparatus and provides the critical service duration needed during hazardous working conditions. It allows fire fighters to safely transition from self-contained air to filtered air when respiratory protection is required during fire fighting operations or other environmental hazards. This improved two-hour breathing apparatus also has a communications capability which is essential in coordinating fire fighting and other disaster response operations. The inventory objective of 13,352 supports all firefighters.

3. The chemical warfare (CW) kit consists of a face piece (CW mask), chemical-biological canisters, CW protective hoods, a waterproof bag, and various accessories necessary to convert a commercial self-contained breathing apparatus to one which provides dual-use (self-contained breathing air or CW filtered air) capability for USAF fire fighters and other accident response forces. The inventory objective for chemical kits is 8,450 units which is 4,902 units less than the inventory objective for the breathing apparatus. Chemical kits are issued to fire fighters tasked to deploy during time of war whereas all firefighters are equipped with the breathing apparatus.

4. Item Code: A

UNCLASSIFIED

P-1 SHOPP LIST
ITEM NO. 85

PAGE NO.

22

UNCLASSIFIED

ITEM NO. 84
21

P-1 SHOPP LIST

Mar 95 and 30 Sep 95.

REMARKS: * Includes 125 received between as of date of 31

5161
1195
3966
384

Total FY97 Requirement
Less Net Assets
Required FY97 Procurement
Planned FY97 Procurement

PROCURMENT REQUIREMENT

1195

APPROVED ACQUISITION OBJECTIVE

5161

TOTAL REQUIREMENT

0

5161

Number of Combat Loads
Assets Required for Combat Loads
Combat Expenditures
War Reserve Requirement
Annual Training
Annual Testing
Maintenance Pipeline
Air Force Requirement
Air National Guard Requirement
Air Force Reserve Requirement

516
679
0
1195
0
0
0
0
0
0
0

4311
638
212
0

INVENTORY OBJECTIVE

DATE: MARCH 1996
P-1 ITEM NOMENCLATURE: NIGHT VISION GOOGLES
(Aircrew Goggles (F4949))

UNCLASSIFIED
REQUIREMENTS STUDY

FY92
FY93
FY94
FY95
FY96

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY92
FY93
FY94
FY95
FY96

ACTUAL TRAINING EXPENDITURE

NET ASSETS:

TOTAL DISPOSALS (MONTHS)
PROCURMENT LEADTIME: months

FY97:
FY98:
FY99:
FY00:

FY96 since as of date:

DISPOSALS (Planned & Projected thru FY97 FDP)

TOTAL ASSETS:

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds

Remarks *

ASSETS
SUPPORT EQUIPMENT
OPAF/OTHER BASE MAINTENANCE AND
APPROPRIATION / BUDGET ACTIVITY:

UNCLASSIFIED

**UNCLASSIFIED
REQUIREMENTS STUDY**

DATE: MARCH 1996
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES
(Aircrew Goggles (AN/AVS-6))

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT

ASSETS
On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds
TOTAL ASSETS:

DISPOSALS (Planned & Projected thru FY97 FDP)
FY96 since as of date:

FY97:
FY98:
FY99:
FY00:

TOTAL DISPOSALS (MONTHS)
PROUREMENT LEADTIME: _____ months

NET ASSETS:

ACTUAL TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

3478

109

87

3674

9

5

5

0

0

19

3655

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

Air National Guard Requirement
Air Force Reserve Requirement

TOTAL REQUIREMENT

APPROVED ACQUISITION OBJECTIVE

PROUREMENT REQUIREMENT

Total FY97 Requirement

Less Net Assets

Required FY97 Procurement

Planned FY97 Procurement

0

4255

244

338

4837

4837

4837

3655

1182

39

REMARKS: * Includes 25 received between as of date of 31 Mar

95 and 30 Sep 95.

P-1 SHOPP LIST

ITEM NO. 84 19

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE MARCH 1996
--	--	-----------------------

B. APPROPRIATION/BUDGET ACTIVITY		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	IF YES, WHEN AVAIL	

Crew Goggle (F-4949)	ITT	Roanoke VA	SS/FFP	Sep 95	Dec 96	16	6,432			
	Army/CECOM	Unknown	MIPR Option	Dec 96	Jun 97	384	6,912	Yes	No	

Remarks: 1. FY96/97 unit cost based on increase in unit cost per the Army. 2. FY95 procurement is funded in P-1 line 88, items less than \$2,000,000 (Personal Safety and Rescue Equipment). 3. FY97 will be an option to an FY96 contract funded by the Air Force Reserve.			P-1 SHOP LIST ITEM NO. 84	PAGE NO. 16	Exhibit P-5a Procurement History and Planning
--	--	--	------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE MARCH 1996	
B. APPROPRIATION/BUDGET ACTIVITY			
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	SPECS REV REQ'D	IF YES, WHEN AVAIL	

FY96	1. Aircrew Goggle (AN/AVS-6)	Army/CECOM ITT, Roanok, VA	MIPR CMS/FP (4th yr option)	AFMCMWR-ALC	Dec 95	Mar 96	75	6,632	Yes	No
FY96		Army/CECOM ITT, Roanok, VA	MIPR CMS/FP (4th yr option)	AFMCMWR-ALC	Feb 96	Oct 96	12	6,632	Yes	No
FY97		Army/CECOM Lifton, Tempe AZ	MIPR CMS/FP (4th yr option)	AFMCMWR-ALC	Jan 97	Jan 98	39	6,632	Yes	No
FY96	2. Groundcrew Goggle (AN/PVS-7B)	Army/CECOM ITT, Roanok, VA	MIPR CMS/FP (5th yr option)	AFMCMWR-ALC	Dec 95	Dec 97	86	3,555		
FY97		Army/CECOM Lifton, Tempe, AZ	MIPR CMS/FP (5th yr option)	AFMCMWR-ALC	Dec 96	Dec 97	66	3,555	Yes	No

Remarks: 1. FY96/97 unit costs based on increase in unit cost per the Army. 2. FY95 procurement is funded in P-1 line 88, items less than \$2,000,000 (Personal Safety and Rescue Equipment). 3. FY97 will be an option to an FY96 contract funded by the Air Force Reserve.			P-1 SHOP LIST ITEM NO. 84	PAGE NO. 15	Exhibit P-5a Procurement History and Planning
---	--	--	------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
D. DATE MARCH 1996		A. APPROPRIATION/BUDGET ACTIVITY			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE			TITLE/NO.		
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				NIGHT VISION GOGGLES				MULTIPLE CONTRACTORS (See P-5a)					
		WEAPON SYSTEM COST		FY 1995		FY 1996		FY 1997					
UNIT COST	QTY	UNIT COST	TOTAL COST	UNIT COST	QTY	UNIT COST	TOTAL COST	UNIT COST	QTY	UNIT COST	TOTAL COST		

Elements	WEAPON SYSTEM COST	FY 1995	FY 1996	FY 1997	TOTAL COST
1. Aircrew Goggle (AN/AVS-6) A. Engineering Support B. Initial Production Test C. Warranty	A	0	87	39	6,632
2. Groundcrew Goggle (AN/PVS-7B) A. Engineering Support B. Warranty	A	0	86	66	3,555
3. Aircrew Goggle (F4949) Support Equipment	A	0	0	0	0
TOTAL		0	173	105	10,222

Remarks: Army is no longer procuring AVS-s goggles for themselves. AF required to pay \$100 thousand for initial production testing (IPT).

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION		DATE	
(EXHIBIT P-40)		MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY			
OPAF/Other Base Maintenance and Support Equipment			
P-1 ITEM NOMENCLATURE:		ITEMS LESS THAN \$2,000,000 (TEST EQUIPMENT)	
	FY 1995	FY 1996	FY 1997
	FY 1998	FY 1999	FY 2000
	FY 2001		
	QUANTITY		
	COST (in Mill)		

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95			1.218			.162
FY96			.907			.142
FY97			3.203			.392

	P-1 SHOPP LIST	ITEM NO. 83	PAGE NO.	12
--	----------------	-------------	----------	----

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
D. DATE		A. APPROPRIATION/BUDGET ACTIVITY									
MARCH 1996		B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/CITY/STATE				LOCATION	
		PRIMARY STANDARDS LABORATORY PACKAGE				Multiple Contractors		OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			
		FY 1995		FY 1996		FY 1997		Weapon System Cost			
IDENT CODE		TOTAL COST		TOTAL COST		TOTAL COST		Elements			
QTY		UNIT COST		QTY		UNIT COST		QTY			
TOTAL COST		QTY		TOTAL COST		QTY		TOTAL COST			
UNIT COST		QTY		UNIT COST		QTY		UNIT COST			
TOTAL COST		QTY		TOTAL COST		QTY		TOTAL COST			

1563	80	378	502	25	578	1593	69	753	243	373	155	1590	75	170	274	48	1023	155	373	243	753	69	1593
A. Electrical Equipment Package		A		B. Mechanical Equipment Package		A		C. Photonics and Nucleonics Equipment Package		A		D. Physical Equipment Package		A		E. Systems Equipment Package		A		TOTAL		TOTAL	

UNCLASSIFIED

Exhibit P-5 Weapon System Cost Analysis	PAGE NO. 10	P-1 SHOPP LIST ITEM NO. 82
---	-------------	----------------------------

UNCLASSIFIED

UNCLASSIFIED
7

P-1 SHOPPING LIST
ITEM NO. 81

ITEM#	PROG	ACCT	BAL	P-1 ITEM NOMENCLATURE: BASE/LC CALIBRATION PACKAGE												DATE: MARCH 1996	
				FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			LATER				
YEAR	QTY	PROR	DUQ	96	96	96	97	97	97	98	98	98	98	98	98	98	98
High Power Amplifier Sys																	
High Power High Frequency	AF	1	0	1													
High Power Medium Frequency	AF	1	0	1													
Low Power Medium Frequency	AF	1	0	1													
Total		3	0	3													
FY97																	
High Power High Frequency	AF	2	0	2													
High Power Medium Frequency	AF	4	0	4													
Low Power Medium Frequency	AF	4	0	4													
Total		10	0	10													
REMARKS:																	
MANUFACTURER'S NAME AND LOCATION	Power Systems Technology, Inc., 105 Bayle Road, Mahwah, NY 11747																
PROD RATES	REA.																
CH D+	MAX																
INITIAL																	
REORDER																	
ADMIN LEAD TIME	PR1 OCT APT1 OCT TIME																
MANUFACTURING	TOTAL AFTER 1 OCT																
PRODUCTION																	

UNCLASSIFIED

A. DATE MARCH 1996		BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	
-----------------------	--	--	--

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE	
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	BASE/ALC CALIBRATION PACKAGE	UNIT COST	QUANTITY
CONTRACTOR/LOCATION	CONTRACT METHOD & TYPE	AWARD DATE	DATE OF FIRST DELIVERY
FISCAL YEAR	COST ELEMENT/	CONTRACTED BY	DATE
		IF YES, SPEC REV REQ'D	AVAIL WHEN AVAIL

High Power Amplifier System	FY97	Power Systems Technology Inc. 105 Boylis Road Melville, NY 11747	Option	AFMC/AGMC	Apr 97	Oct 97	10	436,150 ¹ 254,000 ² 103,250 ³	Yes	No
-----------------------------	------	---	--------	-----------	--------	--------	----	--	-----	----

D. REMARKS		Source for Calibration of IFF/TACAN Test Sets - FY96 unit cost based on engineering estimate of first articles.	
¹ High Power High Frequency ² High Power Medium Frequency ³ Low Power Medium Frequency		P-1 SHOP LIST ITEM NO. 81	PAGE NO. 5
Exhibit P-5a Procurement History and Planning			

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE MARCH 1996
---	--	------------------------------

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE	
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	BASE/ALC CALIBRATION PACKAGE	COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION
CONTRACT & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY
QUANTITY	UNIT COST	SPECS AVAIL NOW	SPECS REV REQ'D
IF YES, WHEN AVAIL	SPEC REV REQ'D	IF YES, WHEN AVAIL	

Local Oscillator Upgrade for the PATEC	FY96	Unknown	C/F/P	AFMC/AGMC	Jul 96	Nov 96	100	18,362	Yes	No
	FY97	Unknown	Option	AFMC/AGMC	Mar 97	Jul 97	100	18,362	Yes	No
Source for Calibration of IFF/TACAN Test Sets	FY96	Div. of Sierra Networks, Inc. 99 South St Hopkinton, MA 01748	C/F/P	AFMC/AGMC	Jul 96	Mar 97	5	275,363	Yes	No
	FY97	Div. of Sierra Networks, Inc. 99 South St Hopkinton, MA 01748	Option	AFMC/AGMC	Mar 97	Dec 97	35	38,465	Yes	No

D. REMARKS	Source for Calibration of IFF/TACAN Test Sets - FY96 unit cost based on engineering estimate of first articles. 1 High Power High Frequency 2 High Power Medium Frequency 3 Low Power Medium Frequency
P-1 SHOP LIST ITEM NO. 81	PAGE NO. 4
Exhibit P-5a Procurement History and Planning	

UNCLASSIFIED

UNCLASSIFIED

P-1 SHOPP LIST ITEM NO. 81	PAGE NO. 3	Exhibit P-5 Weapon System Cost Analysis
-------------------------------	---------------	---

A	A	A	7,466	3,257	3,246	13,969
A	A	A	5,230	1,951	2,776	9,957
A	A	A	3,254	1,730	4,950	9,934
A	A	A	7,466	3,257	3,246	13,969

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) D. DATE MARCH 1996		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OP&/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME BASE/ALC CALIBRATION PACKAGE		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE CONTRACTORS	
FY 1995	FY 1996	FY 1997	UNIT COST	QTY	TOTAL COST	UNIT COST	QTY
TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION

(EXHIBIT P-40)

P-1 ITEM NOMENCLATURE:

BASE/A/LC CALIBRATION PACKAGE

APPROPRIATION/BUDGET ACTIVITY

OPAF/Other Base Maintenance and Support Equipment

QUANTITY	COST (in Mill)	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
	\$9,934			\$13,969	\$10,468	\$11,549	\$10,128	\$10,540

DATE

MARCH 1996

1. The Base/A/LC Metrology and Calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages or consoles 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 86 PMELs and 8 Field Assistance Teams for Calibration (FASTCALs) worldwide. The FY97 program includes funding for 83 PMELs and 8 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.

3. These 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. Approximately three percent of the PMEL standards are outdated and can no longer be economically repaired. Another five percent cannot satisfy the accuracies required to support state-of-the-art weapons and communications systems.

4. Funding for these 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 and the Theater Air Control System.

\$1.0 million of the FY96 budget will award via contract options for the Power Measurement Calibration System (PMCS) and the Transportable Sealed Calibration Units (TCU) upgrades. FY96 major procurements include \$1.4 million for the Source for the Calibration of Identification Friend or Foe (IFF)/Tactical Air Navigation System (TACAN) Test Sets formerly the Pulse Power Test Set. This test set is replacing the Peak Power Calibration System for which replacement parts are no longer available. The old system also does not have comprehensive pulsing capabilities required for calibrating the IFF/TACAN support equipment. Other FY96 procurements include \$.9 million for the PMCS Frequency Extension, \$.145 million for the Digital Sampling Oscilloscope and Standard, \$.135 million for the Portable Automatic Test Equipment Calibrator (PATEC), and \$1.84 million for the PATEC Local Oscillator upgrade. The remaining funding will procure the Yttrium Aluminum Garnet (YAG) Laser, and other small items in the Electrical Package as well as a Flow Calibration System, Laser Interferometer, Tensiometer Dead Weight Tester, Laser Height Gage Upgrade, Gage Block Flatness Interferometer, Top Loader Balance, and other small items in the Mechanical Package.

P-1 SHOPP LIST

PAGE NO.

1

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1997

Table of Contents

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

Page No.	Item	P-1 Line No.
1	Base/ALC Calibration Package	81
8	Primary Standards Laboratory Package	82
11	Items Less Than \$2,000,000 (Test Equipment)	83
13	Night Vision Goggles	84
22	Breathing Apparatus Two Hour	85
28	Universal Water Activated Rel Sys	86
33	Items Less Than \$2,000,000 (Safety & Rescue)	88
34	Mechanized Material Handling Eqmt	89
53	Items Less Than \$2,000,000 (MHE)	92
55	Generators-Mobile Electric	93
54	Items Less Than \$2,000,000 (Electrical Eqmt)	95
65	Medical/Dental Eqmt	98
77	Air Base Operability	100
85	Pallet Air Cargo	101
89	Net Assembly, 108"X88"	102
97	Bladders Fuel	103
101	Aerial Bulk Fuel Delivery Sys	104
106	Photographic Eqmt	105
109	Mobility Eqmt	108
117	Deployment/Employment Containers	110
131	Spatial Disorientation Demonstrator	111
135	Air Conditioners	112
139	Items Less Than \$2,000,000 (Base Spt Eqmt)	113
141	Tech SURV Countermeasures Eqmt	115
147	Industrial Preparedness	119
148	Modifications	120
148	First Destination Transportation	121

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1997

Table of Contents

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
81	Base/ALC Calibration Package	1
82	Primary Standards Laboratory Package	8
83	Items Less Than \$2,000,000 (Test Equipment)	11
84	Night Vision Goggles	13
85	Breathing Apparatus Two Hour	22
86	Universal Water Activated Rel Sys	28
88	Items Less Than \$2,000,000 (Safety & Rescue)	33
89	Mechanized Material Handling Eqmt	34
92	Items Less Than \$2,000,000 (MHE)	53
93	Generators-Mobile Electric	55
95	Items Less Than \$2,000,000 (Electrical Eqmt)	54
98	Medical/Dental Eqmt	65
100	Air Base Operability	77
101	Pallet Air Cargo	85
102	Net Assembly, 108"X88"	89
103	Bladders Fuel	97
104	Aerial Bulk Fuel Delivery Sys	101
105	Photographic Eqmt	106
108	Mobility Eqmt	109
110	Deployment/Employment Containers	117
111	Spatial Disorientation Demonstrator	131
112	Air Conditioners	135
113	Items Less Than \$2,000,000 (Base Spt Eqmt)	139
115	Tech Surv Countermeasures Eqmt	141
119	Industrial Preparedness	147
120	Modifications	148
121	First Destination Transportation	148

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 FY97	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
Phoenix ANG, AZ (1) Storage Aid Sys (SAS) MCP (City Funded)	UNKNOWN	C/FFP	AFMC/ASC	Jan 97	May 97	1	200	No		Jun 96
E. Sioux Falls ANG, SD (1) RS/DS 114 TFG MCP LUXC001389	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 97	1	<u>300</u>	No		Jun 96
SUB TOTAL - ANG							1,550			
7. PACAF										
A. Elelson AFB, AK (1) High Density Storage System, Bldg 1306	UNKNOWN	C/FFP	AFMC/ASC	May 97	Nov 97	1	<u>225</u>	No		Oct 96
SUB TOTAL - PACAF							225			
USAFE										
A. Spangdahlem AB, GE (1) Mobility Whse IOE YHK943005	UNKNOWN	C/FFP	AFMC/ASC	Jul 97	Jul 98	1	<u>800</u>	No		Jul 96
SUB TOTAL - USAFE							800			

D. REMARKS		
	P-1 SHOPP LIST ITEM NO. 89	PAGE NO. 50
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 FY97	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. HQ USAF										
○ Bolling AFB, DC										
(1) Base Supply Mezzanine										
	UNKNOWN	C/FFP	AFMC/ASC	May 97	Jan 98	1	<u>400</u>	No		Sep 96
SUB TOTAL - HQ USAF							400			
10. Items Under \$200 Thousand										
A. AMC - Lajes Field, AZ										
(1) Mech of AFT										
	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 97	1	<u>50</u>	No		Sep 96
SUB TOTAL - Items under \$200 Thousand							50			

D. REMARKS		
	P-1 SHOPP LIST ITEM NO. 89	PAGE NO. 51
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 FY97	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

11. USAF WIDE										
A. Logistics APP Auto Mark & Reading Symbols (LOGMARS)										
(1) Falcon Card Mgt Sys USAFA	UNKNOWN	C/FFP	AFMC/ASC	Feb 97	Aug 97	1	500	No		Dec 96
(2) Maintenance	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 97	1	505	No		Jan 97
(3) Clothing Issues, Lackland AFB	UNKNOWN	C/FFP	AFMC/ASC	Feb 97	Aug 97	1	400	No		Dec 96
(4) Extension Course Institute United States Postal Sys	UNKNOWN	C/FFP	AFMC/ASC	Mar 97	Sep 97	1	200	No		Jan 97
SUB TOTALS - USAF WIDE							1,605			
TOTAL FY97 PROGRAM							8,874			

D. REMARKS		
P-1 SHOPP LIST ITEM NO. 89	PAGE NO. 52	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT)				
QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
COST (In Mil)	\$4.274	\$3.980	\$5.718	\$3.980	\$4.109	\$4.208	\$4.301	

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 repairs, among other systems, engines, hydraulic /pneudraulic systems, landing gear, airframe components, and instruments. Also included in this program is state-of-the-art equipment required to upgrade and replace the antiquated metalworking equipment in Air Force base maintenance shops. As this type of equipment reaches its life expectancy, it must be replaced to prevent work stoppage in the repair and manufacture of critical weapon system components. Replacement of this type of equipment is a continual, proactive process necessary to prevent out-of-tolerance conditions that lead to excessive down times for the equipment and the components they repair.

2. All items proposed for procurement in FY97 have an annual procurement value of less than \$2,000,000. The items which are all Code A are identified below.

NOMENCLATURE	NSN	QTY	FY97	DOLLARS
Milling Machine, Vertical	3417-01-064-7112	10		.724
Milling Machine, Vertical	3447-01-232-6201	12		.594
Bending Machine, Tube	3441-00-938-4573	1		.450
Bending Machine, Pipe	3441-01-115-7636	1		.342
Lathe, Chucker	3416-01-119-5345	5		.869
Boring-Milling-Drilling Machine	3411-01-160-5457	5		.292
Welding Machine, Arc	3431-00-846-9636	14		.244
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		.238
Punching and Shearing	3445-00-266-9574	15		.296
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

	P-1 SHOPP LIST ITEM NO. 92	PAGE NO. 53	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
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 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

NOMENCLATURE	NSN	QTY	FY97	DOLLARS
Punching Machine, Metal	3445-00-263-0103	15		.136
TOTAL				5.718

3. ANG/AFR:

FY	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95			\$1,500,000			\$200,000
FY96			\$1,700,000			\$175,000
FY97			\$1,000,000			\$400,000

	P-1 SHOPP LIST ITEM NO. 92	PAGE NO. 54	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in Mil)		\$4.328	\$.565	\$.606	\$4.494	\$3.331	\$2.637	\$2.485

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 overage, 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 the 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 nonavailability of parts.

3. Procurement of the DoD's standard family of Tactical Quiet Generators (TQG) introduces into the Air Force inventory a new family of generators (sizes 5 through 200 kilowatt) 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 FY96/97 program funds for two types of generators. They are:

a. **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 in maintenance facilities supporting multiple aircraft. Repair of the current generator, the MB-16, was terminated in Sep 91 due to excessive cost and nonavailability of parts.

b. **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, earth 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.

	P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 55	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE GENERATORS, MOBILE ELECTRIC				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	51		986,953	6		57,606
FY96	2		78,000	0		0
FY97	0		0	0		0

	P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 56	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
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 ARMY/ATCOM					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

A. Generator, 60KW/50-60HZ (MEP 806A)	A				23	17,303	398							
B. Generator, 5KW/60HZ (MEP 802A)	A				51	9,801	490							
C. Power Plant, 60KW/400HZ (AN/MJQ-1632)	A				12	76,243	915							
D. Generator, 100KW/60HZ (MEP 807A)														
1. Hardware	A				12	39,000	468	7	42,588	298				
2. Engineering and Testing							310							
3. Data/Tech Manuals							408							
E. Generator, 200KW/60HZ (MEP 809A)														
1. Hardware	A				13	45,287	589	6	44,481	267	13	46,615	606	
2. Engineering and Testing							316							
3. Data/Tech Manuals							434							
TOTAL							4,328			556			606	

	P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 57	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	--------------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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, 60KW/50-60HZ (808A) FY95	Army/ATCOM Fermont Corp Bridgeport, CT	MIPR/Option	AFMC/ SM-ALC	Jan 95	Jan 97	23	17,303			
Generator, 5KW/60HZ (802A) FY95										
	Army/ATCOM Fermont Corp Bridgeport, CT	MIPR/Option	AFMC/ SM-ALC	Jan 95	Nov 97	51	9,601			

REMARKS:
1. Unit cost based on Army Contract

	P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 58	Exhibit P-5a Procurement History and Planning
--	-------------------------------	----------------	---

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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	AFMC/ SM-ALC	Dec 94	Jan 95	12	76,243			
Generator,100KW/60HZ (807A)										
FY95	Army/ATCOM Unknown	MIPR	AFMC/ SM-ALC	Sep 95	Oct 96	12	39,000			
FY96	Army/ATCOM Unknown	MIPR/Option	AFMC/ SM-ALC	Sep 96	Dec 96	7	42,588'	Yes	No	

REMARKS: 1. Unit cost based on Army Contract		
P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 59	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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, 200KW/60HZ (809A)										
FY95	Unknown	MIPR	AFMC/ SM-ALC	Sep 95	Oct 96	13	45,287 ¹			
FY96	Unknown	Option	AFMC/ SM-ALC	Sep 96	Dec 96	6	44,481 ¹	Yes	No	
FY97	Unknown	Option	AFMC/ SM-ALC	Jul 97	Nov 97	13	46,615 ¹	Yes	No	

REMARKS: 1. Unit cost based on Army Contract		
P-1 SHOPP LIST ITEM NO. 93	PAGE NO. 60	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC,
200KW/60HZ (MEP 809A)

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT

ASSETS

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds
TOTAL ASSETS:

596	
13	
6	
615	

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL USAGE (____ MONTHS)
PROCUREMENT LEADTIME: ____ months

0	
0	
0	
0	
0	
0	

NET ASSETS:

615	
-----	--

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	35
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	574
Air National Guard Requirement	114
Air Force Reserve Requirement	12

TOTAL REQUIREMENT	735
-------------------	-----

<u>APPROVED ACQUISITION OBJECTIVE</u>	735
--	-----

PROCUREMENT REQUIREMENT

Total FY97 Requirement	735
Less Net Assets	615
Required FY97 Procurement	120
Planned FY97 Procurement	13

REMARKS:

P-1 SHOPP LIST
ITEM NO. 93

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (ELECTRICAL EQUIPMENT)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$4.766	\$1.094	\$3.425	\$3.968	\$2.994	\$4.011	\$4.072

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 proposed for procurement in FY97 have an annual procurement value of less than \$2,000,000. The items which are Code A are identified below.

NOMENCLATURE	NSN	QTY	FY97	DOLLARS
Generator, MEP 803A	6115-01-275-5061	139		1.609
Generator, MEP 804A	6115-01-274-7388	10		.123
Generator, MEP 813A	6115-01-274-7392	4		.060
Generator, MEP 831A	6115-01-285-3012	372		1.335
Items Less Than \$100 thousand				
CTAP Generators, MEP804A (Contingency Theater Automated Planning System)	6115-01-274-7388	4		.050
Federal Stock Class (FSC) 2530		70		.248
TOTAL				3.425

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95			1,066,00			15,000
FY96			0			0
FY97			100,000			100,000

P-1 SHOPP LIST
ITEM NO. 95

PAGE NO.
64

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			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)		\$13.775	\$12.389	\$15.268	\$14.339	\$14.704	\$15.117	\$15.347

1. The Medical/Dental Equipment line provides war reserve material 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.

2. The following WRM equipment is being funded by this program:

A. Air Transportable Hospital (ATH)

(1) **Chemically Hardened Air Transportable Hospital (CHATH)** (FY95 - \$.623 million; FY97 - \$4.581 million): Prior year funding procured the first four airlocks which will be joined with the first four hospital equipment sets currently in War Reserve Material storage. These airlocks allow the movement of medicine, food, water and the removal of wastes into/out of the ATHs without compromising hospital cleanliness or compromising chemical/biological protection. These airlocks improve contamination control, chemical protection, and temperature control. FY95 funding procures liner sets for four ATHs. FY97 funding will begin procurement of initial requirements for three additional ATHs.

(2) FY96/97 funding will procure **Chemically Hardened Air Management Plants (CHAMPS)** (FY96 - \$5.201 million; FY97 - \$7 million). CHAMPS will add a chemically and biologically hardened environment to the Air Transportable Hospital (ATH) which will provide protection against biological and chemical agents, environmental cleanliness and prevent nosocomial infection. It will allow medical personnel to deploy and setup in a chemically/biological threat area while minimizing impact to current medical operation concepts.

B. **Decontamination Sets** (FY95 - \$100 thousand, FY96 - \$100 thousand; FY97 - \$100 thousand): These sets provide the capability to remove or neutralize nuclear, biological, and chemical agents on wartime casualties immediately prior to medical treatment facility admission.

C. **Patient Ventilators** (FY95 - \$1.172 million; FY96 - \$.974 million): Patient Ventilators provide respirator systems for intra-theater and inter-theater air evacuation of patients requiring ventilator support. Systems include basic ventilator, aircraft adapters, and patient monitors.

D. **Ultralow Temperature Blood Freezers** (FY96 - \$240 thousand): Ultralow temperature freezers for existing blood transshipment centers allow storage/transshipment of up to one pallet of frozen blood assets; or, up to one-half pallet of frozen assets plus the necessary eutectics to keep the blood frozen.

	P-1 SHOPP LIST ITEM NO. 96	PAGE NO. 65	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			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)							

E. Transportable Blood Transshipment Center (TBTC) (FY95 - \$7 million; FY96 - \$3 million): These centers are designed to enhance 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 individuals injured in combat.

F. Alternating Current Interface Unit (FY95 - \$400 thousand): These units provide the capability to connect cardiac monitors directly to aircraft power. Currently cardiac monitors depend on battery power while in use on medical evacuation aircraft.

G. Defense Blood Standard System (DBSS) (FY96 - \$1.650 million; FY97 - \$1.6 million): The DBSS is a DoD-wide blood automated information 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.

H. Miscellaneous Medical Equipment costing less than \$100 thousand (FY95 - \$3.940 million, FY96 - 1.224 million, FY97 - \$1.987 million).

	P-1 SHOPP LIST ITEM NO. 98	PAGE NO. 66	
--	-------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			MEDICAL/DENTAL EQUIPMENT				MULTIPLE CONTRACTORS						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. Air Transportable Hospital (ATH)													
1. Chemically Hardened Air Transportable Hospital (CHATH)	A				VAR	VAR	623				VAR	VAR	4,581
2. Chemically Hardened Air Management Plants (CHAMPS)	A				0		0	7	743	5,201	8	875	7,000
B. Decontamination Sets	A				50	2,000	100	50	2,000	100	50	2,000	100
C. Patient Ventilators	A				142	12,028	1,712	81	12,028	974			
D. Ultralow Blood Freezers	A							12	20,000	240			
E. Transportable Blood Transshipment Center	A				5	1.4M	7,000	2	1.5 M	3,000			
F. Alternating Current Interface Unit	A				200	2,000	400						
G. Defense Blood Standard System (DBSS)	A							29	56,887	1,650	28	57,143	1,600

P-1 SHOPP LIST
ITEM NO. 98

PAGE NO.

67

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			MEDICAL/DENTAL EQUIPMENT					MULTIPLE CONTRACTORS					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
H. Misc WRM Equipment (Items Less than \$100 thousand)	A						3,940			1,224			1,987
TOTAL							13,775			12,389			15,268

	P-1 SHOPP LIST ITEM NO. 98	PAGE NO. 68	Exhibit P-5 Weapon System Cost Analysis
--	-------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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

A. Air Transportable Hospital										
1. Chemically Hardened Air Transportable Hospital (CHATH)										
FY95	Various	C/FP	HSC Brooks AFB TX	Various	Various	Various	Various	Yes	No	
FY97	Various	C/FP	HSC Brooks AFB TX	Various	Various	Various	Various	Yes	No	
2. Chemically Hardened Air Management Plants (CHAMPS)										
FY96	Engineered Air Systems St Louis, MO	Option ¹	HSC Brooks AFB TX	Jul 96	Jul 97	7	836	No		May 96
FY97	Engineered Air Systems St Louis, MO	Option ¹	HSC Brooks AFB TX	Jul 97	Jul 98	8	875	Yes	No	
B. Decontamination Sets										
FY95	Unknown	CM3/FP	DPSC Philadelphia PA	Apr 96	Aug 96	50	2,000	Yes	No	
FY96	Unknown	CM3/FP	DPSC Philadelphia PA	Apr 96	Sep 96	50	2,000	Yes	No	
FY97	Unknown	CM3/FP	DPSC Philadelphia PA	Mar 97	Aug 97	50	2,000	Yes	No	

D. REMARKS		
<ol style="list-style-type: none"> 1. Air force down selected Engineered Air Systems, St. Louis, MO in Aug 95 for development/production of the CHAMPS. 2. Option to Army C/FFP contract awarded Apr 93 (Item G). 3. ISSA - Information Systems Selection and Acquisition Agency, Wash DC (Item G). 		
P-1 SHOPP LIST ITEM NO. 96	PAGE NO. 69	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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. Patient Ventilators										
FY95	Unknown	C/FP	AFMLO/FOM Frederick, MD	Mar 96	Jul 96	374	12,028	Yes	No	
FY96	Unknown	C/FP	AFMLO/FOM Frederick, MD	Mar 96	Jul 96	166	12,028	Yes	No	
D. Ultralow Temperature Blood Freezers										
FY96	Unknown	C/FP	HSC Brooks AFB TX	Jul 96	Oct 96	12	20,000	Yes	No	
E. Transportable Blood Transshipment Center										
FY95	Various	C/FP	HSC Brooks AFB TX	Nov 94	Sep 95	5	1,400,000			
FY96	Various	Options	HSC Brooks AFB TX	Nov 95	Feb 96	2	1,500,000	Yes	No	

D. REMARKS		
1. Air force down selected Engineered Air Systems, St. Louis, MO in Aug 95 for development/production of the CHAMPS. 2. Option to Army C/FFP contract awarded Apr 93 (Item G). 3. ISSA - Information Systems Selection and Acquisition Agency, Wash DC (Item G).		
	P-1 SHOPP LIST ITEM NO. 98	PAGE NO. 70
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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. Alternating Current Interface Unit										
FY95	Unknown	C/FP	HSC Brooks AFB TX	Apr 96	Jul 96	200	2,000	Yes	No	
G. Defense Blood Standard System										
FY96	Cordant Inc Reston VA	Option ²	US Army/ ISSAA ³	Nov 95	Jan 96	29	56,897	Yes	No	
FY97	Cordant Inc Reston VA	Option ²	US Army/ ISSAA ³	Oct 96	Nov 96	28	57,143	Yes	No	
H. Items Less Than \$100,000	Various	Various	AFMLO/FOM Frederick MD	Various	Various	Various	Various	Yes	No	

D. REMARKS		
1. Air force down selected Engineered Air Systems, St. Louis, MO in Aug 95 for development/production of the CHAMPS. 2. Option to Army C/FFP contract awarded Apr 93 (Item G). 3. ISSA - Information Systems Selection and Acquisition Agency, Wash DC (Item G).		
	P-1 SHOPP LIST ITEM NO. 98	PAGE NO. 71
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds
TOTAL ASSETS:

0

0

7

7

DISPOSALS (Planned & Projected thru FY96 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL DISPOSALS (____MONTHS)
PROCUREMENT LEADTIME: ____ months

0

0

0

0

0

NET ASSETS:

7

ACTUAL TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

P-1 SHOPP LIST
ITEM NO. 98

UNCLASSIFIED

**P-1 ITEM NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT
CHEMICALLY HARDENED AIR MANAGEMENT PLANTS (CHAMPS)**

INVENTORY OBJECTIVE

Number of Combat Loads	_____
Assets Required for Combat Loads	_____
Combat Expenditures	_____
War Reserve Requirement	216
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	0
Air National Guard Requirement	0
Air Force Reserve Requirement	0

TOTAL REQUIREMENT 216

APPROVED ACQUISITION OBJECTIVE 216

PROCUREMENT REQUIREMENT

Total FY97 Requirement	216
Less Net Assets	7
Required FY97 Procurement	209
Planned FY97 Procurement	8

REMARKS:

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds
TOTAL ASSETS:

72
50
50
172

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:

0
0
0
0
0
0

TOTAL DISPOSALS (___ MONTHS)

PROCUREMENT LEADTIME: _____ months

NET ASSETS:

172

ACTUAL TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

**P-1 ITEM NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT
DECONTAMINATION SETS**

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
Air National Guard Requirement
Air Force Reserve Requirement

222

0
0
0

TOTAL REQUIREMENT

222

APPROVED ACQUISITION OBJECTIVE

222

PROCUREMENT REQUIREMENT

Total FY97 Requirement
Less Net Assets
Required FY97 Procurement
Planned FY97 Procurement

222
172
50
50

REMARKS:

P-1 SHOPP LIST
ITEM NO. 98

75

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in M\$)		\$4.738	\$4.163	\$4.866	\$12.345	\$14.764	\$14.501	\$1.456

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 installations capability to execute its assigned missions. ABO includes the planning, organizing, training, equipping, and command and control necessary for the installation to function as a team during contingencies; i.e. 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.

A. Contingency Airfield Operations: Equipment and systems designed to quickly prepare a contingency or bare base airfield for launch and recovery operations. These include a contingency airfield lighting system and paint machine for nighttime and daytime airfield marking, respectively; and special mat anchors for expedient aircraft parking or pavement patching on soil or thin asphalt.

1. Mobile Aircraft Arresting System (MAAS): The MAAS is designed to facilitate arrested landing of fighter aircraft on a battle damaged runway or Minimum Operating Strip (MOS). The system consists of a rotary friction-type energy absorption device, mounted on two identical trailers which are installed on each side of the MOS. The two units are joined by a special nylon tape and cable apparatus which when stretched across the MOS serves as an arresting barrier for landing aircraft. The landing aircraft tail hook assembly engages the cable and the energy is absorbed in the rotary friction brakes of the MAAS trailers during the tape payout. Each MAAS trailer is self contained with all hardware required for installation and removal. The trailers are both ground-mobile and air transportable as a complete system within a single C-130 aircraft. FY95 funding procured 13 systems leaving 34 systems to be procured against a requirement of 74.

2. Deployable Pavement Repair System. This project provides mixing/dispensing hardware for the rapid repair of spalls and small craters. Rapid strengthening slurry/grout cements to be used in the mixing hardware will also be purchased. Improvements over the folded fiberglass mat method include: reduced crater maintenance once repaired, stability of the repair, increased safety in fighter tail hook and heavy aircraft operations, and elimination of mat anchoring difficulties in full-depth asphalt pavements. FY95 funding procured 1 system. FY96 funding procures 8 systems; FY97 - 9 systems. The total requirement is 24 systems.

B. Camouflage, Concealment, and Deception (CCD). Procures smoke generators and other CCD equipment to confuse opposing forces with regard to the magnitude and location of critical assets. Desert Storm validated the effectiveness of CCD and its value as a force multiplier. CCD reduces the signature of critical assets and presents false targets or aim points. It includes the following item:

	P-1 SHOPP LIST ITEM NO. 100	PAGE NO. 77	
--	--------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

Multi-Spectral Aircraft Decoys. Procures fighter aircraft decoys to be used as false targets. To the enemy's visual, thermal, and radar sensors the decoys appear to be real aircraft. The total requirement is 384 systems. FY95 funding procures 17 systems. No FY96/97 funds requested.

C. Rapid Utility Repair Kit (RURK). This program provides procedures, materials, and equipment for expedient repair of air base utilities damaged by enemy action, terrorism, and natural disasters such as earthquakes, hurricanes, or major accidents. Kits will cover the main utility systems on an air base such as: petroleum, oil, and lubricants (POL), water waste, and electrical.

POL RURK Pump/Filtration Unit Phase II. A critical requirement exists for the capability to recover contaminated POL from damaged underground storage tanks and other sources. A portable pump/filtration unit (PFU) is required to recover and filter the fuel for direct delivery from the contaminated sources to the POL distribution system and/or fuel trucks. The PFU will recover fuel from a depth of 30 feet and deliver to the receiving system or vehicle at the rate of 300 gallons per minute. The PFU is portable (trailer mounted) and operated by two people. Total requirement is for 24 kits. FY95 funding procures 13 kits. No FY96/97 funds requested.

D. Deployable Fire Protection System (DFPS): 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 agent within ten seconds. The present protection consists of a truck and crew which can be up to one minute away. FY96 funding procures 9 units; FY97 - 15 units. The total requirement is 24 units.

	P-1 SHOPP LIST ITEM NO. 100	PAGE NO. 78	
--	--------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			AIR BASE OPERABILITY				MULTIPLE CONTRACTORS, SEE P-5a						
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. Contingency Airfield Ops													
1. Mobile Aircraft Arresting System	A				13	105,846	1,376						
2. Deployable Pavement Repair System	A				1	429,875	430	8	411,500	3,290	9	385,890	3,473
Data							274						
B. Camouflage Concealment and Deception													
Multispectral Aircraft Decoys	A				17	41,412	704						
C. Rapid Utility Repair Kits													
POL RURK Phase 2	A				13	150,308	1,954						
D. Deployable Fire Protection System													
	A							9	96,778	871	15	92,867	1,393
TOTAL							4,738			4,163		4,866	

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)	A. DATE MARCH 1996
---	------------------------------

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. Contingency Airfield Operations										
1. Mobile Aircraft Arresting System										
FY95	Esco Engineering Aston PA	Option ¹	AFMC/ASC	Jan 95	May 95	13	105,846			
2. Deployable Pavement Repair System										
FY95	Entwistle Boston MA	Option ²	AFMC/ASC	Jul 95	Jul 96	1	429,875			
FY96	Entwistle Boston MA	Option ²	AFMC/ASC	Oct 95	Mar 97 96	8	411,500	Yes	No	
FY97	Entwistle Boston MA	Option ²	AFMC/ASC	Jun 97	Nov 96	2	385,890	Yes	No	
B. Camouflage Concealment and Deception										
1. Multispectral Aircraft Decoys										
FY95	Monger Ind Inc El Cajun CA	Option	AFMC/ASC	Nov 95	Feb 96	17	41,412	Yes	No	

D. REMARKS:
1. Option to FY92 Basic Ordering Agreement (BOA)
2. Option to a C/FPIF contract dated 18 Dec 92.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

C. Rapid Utility Repair Kits										
POL RURK Phase 2										
FY95	Navy/ Tate, Baltimore MD	Option	AFMC/ASC	Aug 95	Jan 96	13	150,308			
D. Deployable Fire Protection System										
FY96	Keko, Florence, KY	Option	AFMC/ASC	Jul 96	Apr 97	9	96,778	Yes	No	
FY97	Unknown	Option	AFMC/ASC Eglin AFB FL	Jan 97	Sep 97	15	92,867	Yes	No	

D. REMARKS: 1. Option to FY92 Basic Ordering Agreement (BOA) 2. Option to a C/FPIF contract dated 18 Dec 92.		
	P-1 SHOPP LIST ITEM NO. 100	PAGE NO. 81
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT**

ASSETS

On Hand as of 31 Mar 95	0
Due-in w/all Prior Years' Funds	0
Due-in w/FY96 Funds	9
TOTAL ASSETS:	9

DISPOSALS(Planned & Projected thru FY97 FDP)

FY96 since as of date:	0
FY97:	0
FY98:	0
FY99:	0
FY00:	0
TOTAL DISPOSALS (____MONTHS)	0

PROCUREMENT LEADTIME: _____ months

NET ASSETS: 9

ACTUAL TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	
FY95	
FY94	
FY93	
FY92	

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: Air Base Operability

Deployable Fire Protection System

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	24
Air National Guard Requirement	0
Air Force Reserve Requirement	0

TOTAL REQUIREMENT 24

APPROVED ACQUISITION OBJECTIVE 24

PROCUREMENT REQUIREMENT

Total FY97 Requirement	24
Less Net Assets	9
Required FY97 Procurement	15
Planned FY97 Procurement	15

REMARKS:

P-1 SHOPP LIST

ITEM NO. 100 84

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		3,636	4,000	4,000	4,000	4,000	4,000	4,000
COST (In Mil)		\$3.214	\$3.652	\$3.562	\$3.627	\$3.690	\$3.782	\$4.002

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 (i.e., forklifts, K-Loaders, pallet dollies) and equipment (ie. pallets) with the Air Force fleet of cargo aircraft (i.e., 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 load of its maximum complement of cargo which was pre-palletized would take 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 and our rapid go-to-war capabilities would be lost.

3. A typical cycle for a pallet headed for a war zone would be from the unit where cargo is loaded and restrained for flight, to the flightline where it is staged pending arrival of the cargo aircraft, to the cargo aircraft for the trip to the theater of operations, where it is offloaded and moved to a location where 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 who are moving later in the deployment flow.

4. Item Code: A

5. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95	75		62,400	25		20,800
FY96	75		68,500	25		22,825
FY97	75		68,625	25		22,875

P-1 SHOPP LIST
ITEM NO. 101

PAGE NO.
85

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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										
6	AAR Cadillac Cadillac MI	Option	AFMCWR-ALC	Nov 95	Jan 96	4000	913			
FY97	Unknown	C/FP	AFMCWR-ALC	Apr 97	May 98	4000	891	Yes	Yes	Mar 96

D. REMARKS FY96 is option on contract FO9003-94C-1066, awarded Sep 94. FY97 unit cost is based on contractor's estimate.		
P-1 SHOPP LIST ITEM NO. 101	PAGE NO. 86	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds **See Remark**
Due-in w/FY96 Funds
TOTAL ASSETS:

161,919
16,757
4000
182676

DISPOSAL (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL USAGE (___ MONTHS)
PROCUREMENT LEADTIME: ___ months

5500
5500
5500
0
0
16500

NET ASSETS:

166176

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
Air National Guard Requirement
Air Force Reserve Requirement

170000

14794
496
417

TOTAL REQUIREMENT

185707

APPROVED ACQUISITION OBJECTIVE

185707

PROCUREMENT REQUIREMENT

Total FY97 Requirement
Less Net Assets
Required FY97 Procurement
Planned FY97 Procurement

185707
166176
19531
4000

REMARKS: Includes assets received between 31 Mar and 30 Sep 95.

P-1 SHOPP LIST

ITEM NO. 101 87

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE NET ASSEMBLY, 108" X 88"				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$0.000	\$1.939	\$1.900	\$2.998	\$2.043	\$1.779	\$2.086

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 government's Military Airlift System is dependent on 463L Pallet and Net Sets. Use of these assets reduce 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. The 463L air cargo system supports the Army, Navy and Marine Corps as well as the Air Force.

3. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY95	0	0,000	0	0,000
FY96	225	22,200	75	7,400
FY97	225	23,725	75	7,575

	P-1 SHOPP LIST ITEM NO. 102	PAGE NO. 89	
--	--------------------------------	----------------	--

UNCLASSIFIED

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

90

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			NET ASSEMBLY, 108" X 88"					See P-5A					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

Net Assembly, Top NSN: 1670-00-969-4103CT	A				0	0	0	7275	110	801	12802	113	1,445
Net Assembly, Side NSN: 1670-00-996-2780CT	A				0	0	0	12199	93	1,138	4810	95	455
Total							0			1,939			1,900

	P-1 SHOPP LIST ITEM NO. 102	PAGE NO. 91	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------	----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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										
94	Certified Slings Casselberry, FL	Option	AFMC/WR-ALC	Mar 94	Feb 95	7572	104			
FY96	Unknown	C/FP	AFMC/WR-ALC	May 96	Apr 97	7275	110	Yes	No	
FY97	Unknown	Option	AFMC/WR-ALC	Jan 97	Jul 97	12802	113	Yes	No	
Net Assembly, Side Net										
FY94	Certified Slings Casselberry, FL	Option	AFMC/WR-ALC	Mar 94	Apr 96	13212	88			
FY96	Unknown	C/FP	AFMC/WR-ALC	May 96	Apr 97	12199	93	Yes	No	
FY97	Unknown	Option	AFMC/WR-ALC	Jan 97	Jul 97	4810	95	Yes	No	

REMARKS: Source of Unit cost is FY93 contract unit cost inflated.		
P-1 SHOPP LIST ITEM NO. 102	PAGE NO. 92	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

FY97 BUDGET PRODUCTION SCHEDULE				P-1 ITEM NOMENCLATURE: NET ASSEMBLY 106" X 86" SIDE NET																								DATE: MARCH 1996																
ITEM/MFG PROCUREMENT YEAR	ASSEMBLY	PROG		FISCAL YEAR 96												FISCAL YEAR 97						FISCAL YEAR 98						LATER																
		ACCPT	BAL	CALENDAR YEAR 96												CALENDAR YEAR 97						CALENDAR YEAR 98																						
		QTY	PRIOR DUE	95	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													
Not Assembly, Side Net																																												
FY93	AF	14479	0	14479			286	4000	4000	4000	3214																																	
FY94	AF	13212	0	13212							738	4000	4000	4000	478																													
FY96	AF	12199	0	12199																					4000	4000	4000	186																
FY97	AF	4810	0	4810																							3601	1009																
Subtotal	AF	44700	0	44700	0	0	286	4000	4000	4000	2860	4000	4000	4000	478	0	0	0	0	0	0	0	0	0	4000	4000	4000	4000	1009	0	0	0	0	0	0	0	0	0	0	0	0	0		
FY93 Army	A	179	0	179			179																																					
TOTAL		44879	0	44879	0	0	286	4179	4000	4000	2950	4000	4000	4000	478	0	0	0	0	0	0	0	0	0	4000	4000	4000	4000	1009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REA-	PROCUREMENT LEAD TIME																								REMARKS:															
Certified Blings		MIN	MAX	CH D+	ADMIN LEAD TIME												MANUFACTURING TIME						TOTAL AFTER 1 OCT																					
Casselberry FL			4000		PR 1 OCT												AFT 1 OCT																											
					INITIAL																																							
					REORDER																																							

P-1 SHOPPING LIST
ITEM NO. 102

94
UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: NET ASSEMBLY 108" X 88", Top Net

ASSETS

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds See Remark
Due-in w/FY96 Funds
TOTAL ASSETS:

128306
28144
7275
163725

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL USAGE (___ MONTHS)
PROCUREMENT LEADTIME: ___ months

4260
4260
3098
0
0
11618

NET ASSETS:

152107

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	<u>170000</u>
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	<u>14576</u>
Air National Guard Requirement	<u>496</u>
Air Force Reserve Requirement	<u>417</u>
Other Services	_____
TOTAL REQUIREMENT	<u>185489</u>

APPROVED ACQUISITION OBJECTIVE

185489

PROCUREMENT REQUIREMENT

Total FY97 Requirement	<u>185489</u>
Less Net Assets	<u>152107</u>
Required FY97 Procurement	<u>33382</u>
Planned FY97 Procurement	<u>12802</u>

REMARKS: Includes assets received between 31 Mar and 30 Sep 95.

P-1 SHOPP LIST
ITEM NO. 102

UNCLASSIFIED⁹⁵

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT**

DATE: MARCH 1996
P-1 ITEM NOMENCLATURE: NET ASSEMBLY, 108" X 88", Side Net

ASSETS

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds See Remark
Due-in w/FY96 Funds
TOTAL ASSETS:

277004
63226
12199
352429

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL USAGE (___ MONTHS)
PROCUREMENT LEADTIME: ___ months

8629
8630
6276
0
0
23535

NET ASSETS:

328894

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	<u>340000</u>
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	<u>29210</u>
Air National Guard Requirement	<u>990</u>
Air Force Reserve Requirement	<u>834</u>
Other Services	_____
TOTAL REQUIREMENT	<u>371034</u>

APPROVED ACQUISITION OBJECTIVE

371034

PROCUREMENT REQUIREMENT

Total FY97 Requirement	<u>371034</u>
Less Net Assets	<u>328894</u>
Required FY97 Procurement	<u>42140</u>
Planned FY97 Procurement	<u>4810</u>

REMARKS: Includes assets received between 31 Mar and 30 Sep 95.

P-1 SHOPP LIST
ITEM NO. 102

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE BLADDERS, FUEL				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	\$0.000	\$3.927	\$1.911	\$1.945	\$1.981	\$1.484	\$5.504

1. This 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 possessed by the Air Force which is capable of supporting the operational commands' (Air Combat Command (ACC), Air Mobility Command (AMC)), 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 peace time and combat situations at bare base locations.

2. This 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
FY95	0	0,000	0	0,000
FY96	1	11,220	0	0,000
FY97	0	0,000	0	0,000

	P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 97	
--	--------------------------------	----------------	--

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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
FY96	Bell Avon Pcayune MS	Option 1	AFMC/SA-ALC	Oct 95	May 96	350	11,220 ²			
FY97	Bell Avon Pcayune MS	Option 1	AFMC/SA-ALC	Oct 96	May 97	159	12,018 ³	Yes	No	

D. REMARKS: 1. Option to a three year requirements contract awarded Jun 93. Contract not funded by this P-1 line. 2. Decrease in unit price is caused by deletion of burn liner 3. FY97 unit costs is in accordance with contract price band		
P-1 SHOPP LIST ITEM NO. 103	PAGE NO. 98	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: BLADDERS, FUEL

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT**

ASSETS

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds See Remark 1
Due-in w/FY96 Funds
TOTAL ASSETS:

452
105
350
907

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL DISPOSALS (___ MONTHS)
PROCUREMENT LEADTIME: months

0
259
0
0
0
259

NET ASSETS:

648

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 See Remark 2
Annual Training
Annual Testing
Maintenance Pipeline
Air Force Requirement
Air National Guard Requirement
Air Force Reserve Requirement

716

105
1
0

TOTAL REQUIREMENT

822

APPROVED ACQUISITION OBJECTIVE

822

PROCUREMENT REQUIREMENT

Total FY97 Requirement
Less Net Assets
Required FY97 Procurement
Planned FY97 Procurement

822
648
174
159

REMARKS: 1. Includes assets received between 31 Mar and 30 Sept 95 2. Excludes 410 requirements for Bare Base.

P-1 SHOPP LIST
ITEM NO. 103

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE AERIAL BULK FUEL DELIVERY SYSTEM				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$0.000	\$0.000	\$2.063	\$2.101	\$2.138	\$2.189	\$0.932

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 pipe line) 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 pre-positioned 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. The total requirement is for 61 systems.

2. The majority of the current ABFDS were procured in the mid-1960s and 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 thus generating inherently lower exhaust temperatures.

3. Item Code: A

4. ANG/AFR: None

P-1 SHOPP LIST
ITEM NO. 104

PAGE NO.
101

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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
FY78	Air Logistics	C/FFP	AFMC/SA-ALC	Aug 78	Mar 79	3	99,320			
6 See Note 1	Unknown	C/FFP	AFMC/SA-ALC	Jul 96	Apr 97	2	164,222	Yes	No	
FY97 See Note 2	Unknown	Option	AFMC/SA-ALC	May 97	May 98	12	171,917	Yes	No	

D. REMARKS 1. FY96 funded in Items Less Than \$2 Million, P-1 line 113. 2. FY97 unit Cost based on FY95 inflated contractor estimate.		
	P-1 SHOPP LIST ITEM NO. 104	PAGE NO. 102
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT**

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: AERIAL BULK FUEL DELIVERY SYSTEM

ASSETS

On Hand as of 31 Mar 95 _____
 Due-in w/all Prior Years' Funds _____
 Due-in w/FY96 Funds _____ **See Remark 1**
TOTAL ASSETS: _____

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date: _____
 FY97: _____
 FY98: _____
 FY99: _____ **See Remark 2**
 FY00: _____
TOTAL DISPOSALS (____ MONTHS) _____
PROCUREMENT LEADTIME: _____ months

NET ASSETS: _____ **33**

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 _____ **3**
 Air National Guard Requirement _____ **0**
 Air Force Reserve Requirement _____ **0**

TOTAL REQUIREMENT _____ **61**

APPROVED ACQUISITION OBJECTIVE

_____ **61**

PROCUREMENT REQUIREMENT

Total FY97 Requirement _____ **61**
 Less Net Assets _____ **33**
 Required FY97 Procurement _____ **28**
 Planned FY97 Procurement _____ **12**

REMARKS: 1. Funded in Items Less than \$2 Million, P-1 Line 113. 2. Disposals deferred until delivery of assets- Replacement Program

**P-1 SHOPP LIST
ITEM NO. 104**

UNCLASSIFIED ¹⁰⁵

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE PHOTOGRAPHIC EQUIPMENT				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	\$6.582	\$6.010	\$6.089	\$6.063	\$6.100	\$6.253	\$6.400

The Photographic Equipment program procures still photographic, motion photography and graphic imaging equipment and equipment systems. These equipment systems 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 still and motion cameras (conventional and digital), film and digital processors, developing and finishing equipment and film/video projection systems.

1. **Photo Projection Equipment (FSC 6730).** FY95-97 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 begins procurement of 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 network hubs and image presentation systems. This initiative standardizes these systems for insured operability. Finally, this initiative recognized that electronic imaging would provide commanders with responsive near real-time vital imagery from anywhere in the world. 77 Air Force bases had electronic imaging systems installed during FY93 and FY94. In FY95 and FY96, the remaining active duty Air Force Bases will receive electronic imaging systems for the Air National Guard and the Air Force Reserve. FY97 begins replacement of electronic imaging systems facing obsolescence for systems procured during FY92.

	P-1 SHOPP LIST ITEM NO. 105	PAGE NO. 106	
--	--------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE PHOTOGRAPHIC EQUIPMENT					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

4. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95			1,896,000			893,000
FY96			3,400,000			0,000
FY97			0,000			0,000

	P-1 SHOPP LIST ITEM NO. 105	PAGE NO. 107	
--	--------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	D. DATE MARCH 1996
--	------------------------------

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 CONTRACTORS
--	---	--

Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. Federal Stock Class (FSC) 6730, Photo Projection Equipment	A						600				500			1,000
2. FSC 6760, Photo Equipment and Accessories	A													3,500
3. Electronic Imaging Center Equipment Conversions	A						5,982				5,510			1,589
Total							6,582				6,010			6,089

	P-1 SHOPP LIST ITEM NO. 105	PAGE NO. 108	Exhibit P-5 Weapon System Cost Analysis
--	------------------------------------	------------------------	--

UNCLASSIFIED

Pg 109

Mike P-HO

Blank

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (Costs in Thousands of Dollars)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION				
OPAF/Other Base Maintenance and Support Equipment									Multiple Manufacturers; See Accompanying P-5As				
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
A. Refueling Systems													
(1) R-14 Mobile Hydrant	A		\$	\$	7	89.1	624	14	89.0	1,246	14	89.0	1,246
(2) 10K Fuel Bladder	A				42	7.5	315	16	7.5	120			
(3) 50K Fuel Bladder	A										82	12.1	992
(4) Fuel Filter Separator	A							30	10.0	300			
(5) Injector Pump	A							40	10.9	436			
B. Refrigeration Equipment													
(1) Refer Panel, 10K	A				25	6.0	150	14	6.0	84			
(2) Refer Panel, 5K	A				40	6.0	240	138	6.0	828			
(3) Refer Box, 150 cu ft	A							52	6.86	357			
(4) Refer Box, 1200 cu ft	A							8	20.0	160			
C. Water Systems													
(1) Latrines	A							23	22.39	515			
(2) Water Source Run	A				12	133.7	1,604						
(3) Water Push Package	A				12	181.2	2,174						
(4) Water Loop Package	A				12	316.2	3,794	21	296.0	6,216	7	318.2	2,227
(5) Rev-Osmosis Wtr Pur Unit	A							14			14	79.7	1,116
(6) 3K Onion Tank	A							82	2.38	195			
(7) Self-Help Laundry	A										55	28.78	1,583
D. Runway Sub-Systems													
(1) Revetment Kits	A							47	33.2	1,560			
(2) Remote Area Light Sets	A										40	32.3	1,292

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.
110

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) <small>(Costs in Thousands of Dollars)</small>										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/Other Base Maintenance and Support Equipment			MOBILITY EQUIPMENT					Multiple Manufacturers; See Accompanying P-5As					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

(3) Contingency Airfld Light Sets	A		\$	\$			\$	\$	3	460.0	1,380				
(4) Lightweight Flooring	A								196	16.6	3,254				
E. Electrical Sub-Systems															
(1) Secondary Distr Center	A								128	18.81	2,408	92	19.4	1,785	
(2) 750KW Generator	A								22	187.3	4,121	21	188.7	3,963	
(3) 100 KW Wheel Kit	A											2	1.1	2	
F. Shelters/Facilities															
(1) ESC, NDI	A								3	79.9	240				
(2) ESC, Parachute 1	A								1	77.9	78				
(3) ESC, Common	A								8	57.8	462				
(4) ESC, Life Support	A								4	67.8	271				
(5) 4K Sq Ft Facility	A				8	110.3	882					30	131.1	3,933	
(6) General Purpose	A								30	105.8	3,174				
(7) Temper Tent (Tan)	A				171	8.3	1,419		196	8.34	1,634				
(8) Kitchen Tentage, 550	A								9	37.0	333				
(9) Initial Deploymt Kitchen	A											10	312.0	3,120	
G. Miscellaneous															
(1) Ship/Storage Containers	A				206	7.68	1,582								
TOTAL												29,372			21,259

	P-1 SHOPP LIST ITEM NO. 108	PAGE NO. 111	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE
MARCH 1996

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 1995	Entwhistle Corp, MA	C/FP	AFMC/SA-ALC	Jan 95	Feb 96	7	89.100			
FY 1996	Entwhistle Corp, MA	Option	AFMC/SA-ALC	Mar 96	Mar 97	14	89.000	Yes	No	
FY 1997	Entwhistle Corp, MA	Option	AFMC/SA-ALC	Nov 96	Nov 97	14	89.000	Yes	No	
10K Fuel Bladder										
FY 1995 (1)	Bell Avon, MS	MIPR	AFMC/SA-ALC	Sep 95	Sep 96	42	7.500			
FY 1996 (1)	Unknown	MIPR	AFMC/SA-ALC	Mar 96	Mar 97	16	7.500	Yes	No	
50K Fuel Bladder										
FY 1991	Bell Avon, MS	Option	AFLC/SA-ALC	Dec 92	Apr 94	252	8.236			
FY 1997	Bell Avon, MS	Option	AFMC/SA-ALC	Oct 96	Nov 96	82	12.100	Yes	No	
Fuel Filter Separator										
FY 1989	Willard, SC	C/FP	AFLC/SA-ALC	Mar 89	Dec 89	15	8.467			
FY 1996	Unknown	C/FP	AFMC/SA-ALC	Jul 96	Jul 97	30	10.000	Yes	No	
Injector Pump										
FY 1994	Hammonds, TX	C/FP	AFMC/SA-ALC	Apr 94	May 94	14	9.942			
FY 1996	Unknown	C/FP	AFMC/SA-ALC	Jun 96	Dec 96	40	10.854	Yes	No	
Refer Panel 10K										
FY 1995	Keco Inc, KY	Option	AFMC/SA-ALC	Feb 95	Apr 96	25	6.000			
FY 1996	Keco Inc, KY	Option	AFMC/SA-ALC	Mar 96	Mar 97	14	6.000	Yes	No	
Refer Panel, 5K										
FY 1995	Keco Inc, KY	Option	AFMC/SA-ALC	Feb 95	Apr 96	40	6.000			
FY 1996	Keco Inc, KY	Option	AFMC/SA-ALC	Mar 96	Nov 96	138	6.000	Yes	No	

D. REMARKS:

1. MIPR to US Army Material Command
2. Funded requisition sent by AFMC/WR-ALC to DLA
3. Through US Army Development Funding; Natick Lab's

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.
112

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs In Thousands of Dollars)

A. DATE
MARCH 1996

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE:						
OPAF/Other Base Maintenance and Support Equipment				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 Box, 150 cu ft										
FY 1991 (1)	W.H. Porter, MI	MIPR	AFMC/SA-ALC	Sep 91	May 92	102	5.500			
FY 1996 (1)	Unknown	MIPR	AFMC/SA-ALC	Apr 96	Oct 96	52	6.860	Yes	No	
Refer Box, 1200 cu ft										
FY 1994 (1)	W.H. Porter, MI	MIPR	AFMC/SA-LAC	Sep 94	Oct 94	16	20.000			
FY 1996 (1)	Unknown	MIPR	AFMC/SA-ALC	Apr 96	Oct 96	8	20.000	Yes	No	
Latrines										
FY 1994	Engineered Air, MO	Option	AFMC/WR-ALC	Jul 94	Dec 94	19	20.684			
FY 1996	Unknown	C/FPE	AFMC/WR-ALC	Aug 96	May 97	23	22.390	Yes	No	
Water Source Run										
FY 1996	Engineered Air, MO	C/FP	AFMC/WR-ALC	Jul 95	Jan 96	12	133.700			
Water Push Package										
FY 1996	Engineered Air, MO	C/FP	AFMC/WR-ALC	Jul 95	Jan 96	12	181.200			
Water Loop Package										
FY 1996	Engineered Air, MO	C/FP	AFMC/WR-ALC	Jul 95	Jan 96	12	316.200			
FY 1996	Engineered Air, MO	Option	AFMC/WR-ALC	Nov 95	May 96	21	296.010			
FY 1997	Engineered Air, MO	Option	AFMC/WR-ALC	Oct 96	Apr 97	7	318.151	Yes	No	
Reverse Osmosis Water Purif. Unit										
FY 1992 (1)	Engineered Air, MO	MIPR	AFLC/WR-ALC	May 92	Oct 92	12	69.633			
FY 1997 (1)	Hiland Eng.,MI	MIPR (Option)	AFMC/WR-ALC	Nov 96	Apr 97	14	79.736	Yes	No	
3K Onion Tank										
FY 1991	American Fuel Cell, AR	C/FP	AFMC/SA-ALC	Apr 92	Nov 92	153	2.377			
FY 1996	Unknown	C/FP	AFMC/SA-ALC	Jul 96	Jan 97	82	2.377	Yes	No	

D. REMARKS:

1. MIPR to US Army Material Command
2. Funded requisition sent by AFMC/WR-ALC to DLA
3. Through US Army Development Funding: Natick Lab's

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.
113

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE
MARCH 1996

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
Self Help Laundry										
FY 1990	Cemirt	SS/FP	AFLC/WR-ALC	Oct 90	Dec 90	7	27.700			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Jun 97	Jul 98	55	28.780	Yes	No	
ment Kits										
FY 1994	Engineered Air, MO	Option	AFMC/WR-ALC	Jun 95	Jan 96	62	33.090			
FY 1996	Engineered Air, MO	Option	AFMC/WR-ALC	Nov 95	Jun 96	47	33.200			
Remote Area Light Sets										
FY 1991	Davey Comp, OH	C/FP	AFLC/SA-ALC	Jun 93	Jun 94	63	20.352			
FY 1997	Unknown	C/FP	AFMC/SA-ALC	Mar 97	Mar 98	40	32.260	Yes	No	
Contingency Airfield Lighting System										
FY 1993	Multi-Elec, II	Option	ASC/EAFB	Aug 93	Feb 94	6	421.330			
FY 1996	Multi-Elec, II	Option	ASC/EAFB	Apr 96	Jun 96	3	460.000	Yes	No	
Lightweight Flooring										
FY 1991	AAR Corp, MI	C/FP	AFLC/WR-ALC	Sep 93	Sep 94	256	14.090			
FY 1996 (2)	Unknown	Funded Req DLA/DPSC	AFMC/WR-ALC	Jun 96	Jun 97	196	16.632	Yes	No	
Secondary Distribution Center										
FY 1991	Devon Sys Inc, CA	C/FP	AFLC/SM-ALC	Sep 93	Sep 95	186	17.258			
FY 1996	Unknown	C/FP	AFMC/SM-ALC	Apr 96	Apr 97	128	18.810	Yes	No	
FY 1997	Unknown	Option	AFMC/SM-ALC	Apr 97	Apr 98	92	19.415	Yes	No	

D. REMARKS:

1. MIPR to US Army Material Command
2. Funded requisition sent by AFMC/WR-ALC to DLA
3. Through US Army Development Funding; Netick Lab's

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.

114

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE

MARCH 1996

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	AFLC/SM-ALC	Sep 93	Sep 94	95	165.033			
FY 1996	Unknown	C/FP	AFMC/SM-ALC	Apr 96	Apr 97	22	187.333	Yes	No	
FY 1997	Unknown	Option	AFMC/SM-ALC	Apr 97	Apr 98	21	188.714	Yes	No	
100 KW Wheel Kit										
FY 1993	Prototype Inc, OH	C/FP	AFMC/SM-ALC	May 93	Aug 93	72	.995			
FY 1997	Unknown	C/FP	AFMC/SM-ALC	Apr 97	Apr 98	2	1.109	Yes	No	
ESC NDI										
FY 1991	Gichner Sys Inc, PA	C/FP	AFLC/WR-ALC	Jan 93	Nov 95	11	67,908			
FY 1996	Gichner Sys Inc, PA	Option	AFMC/WR-ALC	Nov 95	Feb 96	3	79.892			
ESC, Parachute 1										
FY 1991	Gichner Sys Inc, PA	C/FP	AFLC/WR-ALC	Jan 93	Feb 95	1	66,239			
FY 1996	Gichner Sys Inc, PA	Option	AFMC/WR-ALC	Nov 95	Jan 97	1	77.928			
ESC, Common										
FY 1993	Gichner Sys Inc, PA	Option	AFMC/WR-ALC	Nov 94	Sep 95	10	57.233			
FY 1996	Gichner Sys Inc, PA	Option	AFMC/WR-ALC	Nov 95	Nov 96	8	57.813			
ESC, Life Support										
FY 1991	Gichner Sys Inc, PA	C/FPE	AFLC/WR-ALC	Jan 93	Oct 95	17	57,658			
FY 1996	Gichner Sys Inc, PA	Option	AFMC/WR-ALC	Nov 95	Aug 96	4	67.833			
4 K Sq Ft Facility										
FY 1995	Universal Fabric, PA	Option	AFMC/WR-ALC	Jan 95	Jan 96	8	110.280			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Nov 96	Nov 97	30	131.100	Yes	No	

D. REMARKS:

1. MIPR to US Army Material Command
2. Funded requisition sent by AFMC/WR-ALC to DLA
3. Through US Army Development Funding; Natick Lab's

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.
115

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE
MARCH 1996

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 1993	AAR Corp, MI	C/FP	AFMC/WR-ALC	Nov 94	Feb 96	4	105.807			
FY 1996	AAR Corp, MI	Option	AFMC/WR-ALC	Nov 95	Jul 96	30	105.807			
per Tent (Tan)										
FY 1995 (2)	Outdoor Venture, KY	Funded Req DLA/DPSC	AFMC/WR-ALC	Jan 95	Jan 97	171	8.335			
FY 1996 (2)	Outdoor Venture, KY	Funded Req DLA/DPSC	AFMC/WR-ALC	Feb 96	Apr 97	196	8.335			
Kitchen Tentage, 550-person										
FY 1991 (1)	Outdoor Venture, KY	MIPR	AFMC/WR-ALC	Jul 92	Sep 93	24	31.000			
FY 1996 (1)	Unknown	MIPR	AFMC/WR-ALC	Jun 96	Jul 97	9	37.000	Yes	No	
Initial Deployment Kitchen										
FY 1991 (3)	MTC Inc, OH	C/FP	US Army Natick Lab's	Dec 92	Jun 95	1	750.000			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Mar 97	Apr 98	10	312.000	No	Yes	Jun 96
Shipping/Storage Container										
FY 1995 (2)	AAR Corp, MI	Funded Req DLA/DPSC	AFMC/WR-ALC	Jan 95	Jun 95	206	7.680			

D. REMARKS:

1. MIPR to US Army Material Command
2. Funded requisition sent by AFMC/WR-ALC to DLA
3. Through US Army Development Funding; Natick Lab's

P-1 SHOPP LIST
ITEM NO. 108

PAGE NO.
116

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$0.000	\$3.298	\$1.948	\$2.013	\$2.393	\$1.469	\$3.682

1. This family of containers are airliftable, stackable portable, weatherproof containers. These 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 and 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 current cardboard and plywood boxes and the strapping of loose equipment to pallets do not. With older containers, the user manually handles equipment requiring more time and manpower. With these containers, fewer aircraft and less manpower are required for packing, set up and retrieval of assets.

3. ANG/AFR:

	QTY	ANG DOLLARS	QTY	AFR DOLLARS
FY95		0		0
FY96		\$ 1,613,000		\$ 208,000
FY97		\$ 1,033,000		\$ 130,000

P-1 SHOPP LIST
ITEM NO. 110

PAGE NO.
117

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME DEPLOYMENT/EMPLOYMENT CONTAINERS					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION MULTIPLE CONTRACTORS (See P-5a)						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT														
Weapon System Cost Elements		IDENT CODE				FY 1995			FY 1996			FY 1997		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. Container, 84X42X30 National Stock Number (NSN) 8145-01-118-9872 A. First Article		A							246	1,953	481	227	2,011	456
2. Container, 84x42x60 NSN 8145-01-118-9873 A. First Article		A							419	2,461	1,031	345	2,545	878
3. Container, 62x42x30 NSN 8145-01-118-9874 A. First Article		A							291	1,838	535	122	1,894	231
4. Container, 62x42x52 NSN 8145-01-118-9882 A. First Article		A							32	2,202	71	32	2,268	73
5. Container, 84x42x52 NSN 8145-01-118-9883		A							2	4,468	9	1	2,307	2

	P-1 SHOPP LIST ITEM NO. 110	PAGE NO. 118	Exhibit P-5 Weapon System Cost Analysis
--	--------------------------------	---------------------	---

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE MARCH 1996			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			DEPLOYMENT/EMPLOYMENT CONTAINERS					MULTIPLE CONTRACTORS (See P-5a)					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		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. First Article	A						425	2,285	971	130	2,369	308	
							2	20,203	40				
Total									3,298			1,948	

P-1 SHOPP LIST
ITEM NO. 110

PAGE NO.
119

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 NSN 8145-01-118-9872 /store container 42x30										
FY94 ¹	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Aug 94	Nov 94	108	1,842			
FY96 See Remark 2	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Apr 96	Nov 96	246	1,953	Yes	No	
FY96	Unknown	C/FP	AFMC/WR-ALC	Apr 96	Oct 97	2	20,203	Yes	No	
FY97	Tanknetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	227	2,011	Yes	No	
2. Container NSN 8145-01-118-9873 84x42x60										
FY94 ¹	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Aug 94	Nov 94	94	2,328			
FY96	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Apr 96	Nov 96	419	2,468	Yes	No	
FY96	Unknown	C/FP	AFMC/WR-ALC	Apr 96	Oct 97	2	20,203	Yes	No	
FY97	Tanknetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	345	2,545	Yes	No	

D. REMARKS		
1. FY94 are in Items Less than \$2 Million, P-1 line 113. 2. Remark 2 applies to all years showing a SS and C/FFP- Application of the Insurance policy concept which provides support during the time a new source is producing a first article. Overall objective of this concept is to obtain the best possible price and performance without risking the failure of an unproven source to timely produce an acceptable item.		
P-1 SHOPP LIST ITEM NO. 110	PAGE NO. 120	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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 NSN 8145-01-118-9874 62x42x30										
FY94 ¹	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Aug 94	Nov 94	250	1,734			
FY96	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Apr 96	Nov 96	291	1,838	Yes	No	
FY96	Unknown	C/FP	AFMC/WR-ALC	Apr 96	Oct 97	2	20,203	Yes	No	
FY97	Tanknetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	122	1,894	Yes	No	
4. Container NSN 8145-01-118-9882 62x42x52										
FY94 ¹	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Aug 94	Feb 95	4	2,077			
FY96	Tanknetics Harrison, AR	SS/FP	AFMC/WR-ALC	Apr 96	Nov 96	32	2,202	Yes	No	
FY96	Unknown	C/FP	AFMC/WR-ALC	Apr 96	Oct 97	2	20,203	Yes	No	
FY97	Tanknetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	32	2,268	Yes	No	

D. REMARKS

1. FY94 are in Items Less than \$2 Million, P-1 line 113.
2. Remark 2 applies to all years showing a SS and C/FFP- Application of the insurance policy concept which provides support during the time a new source is producing a first article. Overall objective of this concept is to obtain the best possible price and performance without risking the failure of an unproven source to timely produce an acceptable item.

P-1 SHOPP LIST
ITEM NO. 110

PAGE NO.
121

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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

5. Container NSN 8145-01-118-9883 42x52 FY96	Tankinetics Harrison, AR	SS/FP	AFMC/WR-ALC	Dec 95	Jun 96	2	4,468	Yes	No	
FY97	Tankinetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	1	2,307	Yes	No	
6. Container NSN 8145-01-118-9884 62x42x60 FY94'	Tankinetics Harrison, AR	SS/FP	AFMC/WR-ALC	Aug 94	Nov 94	203	2,169			
FY96	Tankinetics Harrison, AR	SS/FP	AFMC/WR-ALC	Apr 96	Nov 96	425	2,285	Yes	No	
FY96	Unknown	C/FP	AFMC/WR-ALC	Apr 96	Oct 97	2	20,203	Yes	No	
FY97	Tankinetics Harrison, AR	SS/FP Option	AFMC/WR-ALC	Dec 96	Jul 97	130	2,369	Yes	No	

D. REMARKS

- FY94 are in Items Less than \$2 Million, P-1 line 113.
- Remark 2 applies to all years showing a SS and C/FP- Application of the insurance policy concept which provides support during the time a new source is producing a first article. Overall objective of this concept is to obtain the best possible price and performance without risking the failure of an unproven source to timely produce an acceptable item.

P-1 SHOPP LIST
ITEM NO. 110

PAGE NO.
122

Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

UNCLASSIFIED

FY97 BUDGET PRODUCTION SCHEDULE				P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS												DATE: MARCH 1998																																																																										
ITEM/MFG PROCUREMENT YEAR	QTY	PRIOR	DUE	FISCAL YEAR 96									FISCAL YEAR 97									FISCAL YEAR 98									LATER																																																											
				CALENDAR YEAR 96									CALENDAR YEAR 97									CALENDAR YEAR 98																																																																				
				1-OCT	1-OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																																																													
4. Container 8145-01-118-8882																																																																																										
82x42x52																																																																																										
Tanknetics																																																																																										
FY96	AF	32	0	32																																																																																						
FY97	AF	32	0	32																																																																																						
Unknown																																																																																										
FY96	AF	2	0	2																																																																																						
Total		66	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																														
5. Container 8145-01-118-8883																																																																																										
84x42x52																																																																																										
Tanknetics																																																																																										
FY96	AF	2	0	2																																																																																						
FY97	AF	1	0	1																																																																																						
Total		3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																														
6. Container 8145-01-118-8884																																																																																										
82x42x60																																																																																										
Tanknetics																																																																																										
FY94	AF	203	203	0																																																																																						
FY96	AF	426	0	426																																																																																						
FY97	AF	130	0	130																																																																																						
Unknown																																																																																										
FY96	AF	2	0	2																																																																																						
Total		760	203	557	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																														
<table border="1"> <tr> <td rowspan="2">MANUFACTURER'S NAME AND LOCATION</td> <td colspan="2">PROD RATES</td> <td rowspan="2">REORDER</td> <td colspan="24">PROCUREMENT LEAD TIME</td> <td rowspan="2">REMARKS:</td> </tr> <tr> <td>MIN</td> <td>MAX</td> <td>ADMIN LEAD TIME</td> <td>MANUFACTURING TIME</td> <td>TOTAL AFTER 1 OCT</td> </tr> <tr> <td>See P-5a</td> <td></td> <td></td> <td></td> <td>PR 1 OCT</td> <td>AFT 1 OCT</td> <td></td> </tr> </table>																												MANUFACTURER'S NAME AND LOCATION	PROD RATES		REORDER	PROCUREMENT LEAD TIME																								REMARKS:	MIN	MAX	ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT	See P-5a				PR 1 OCT	AFT 1 OCT																							
MANUFACTURER'S NAME AND LOCATION	PROD RATES		REORDER	PROCUREMENT LEAD TIME																									REMARKS:																																																													
	MIN	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT																																																																																				
See P-5a				PR 1 OCT	AFT 1 OCT																																																																																					

P-1 SHOPPING LIST
ITEM NO. 110

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-In w/all Prior Years' Funds
Due-In w/FY96 Funds
TOTAL ASSETS:

**DATE: MARCH 1996
P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT
CONTAINERS NSN: 8145-01-118-9872**

INVENTORY OBJECTIVE

Number of Combat Loads	_____
Assets Required for Combat Loads	_____
Combat Expenditures	_____
War Reserve Requirement	_____ 1
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	_____ 3251
Air National Guard Requirement	_____ 2540
Air Force Reserve Requirement	_____ 609
TOTAL REQUIREMENT	_____ 6401

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date: _____ 0
FY97: _____ 0
FY98: _____ 0
FY99: _____ 0
FY00: _____ 0
TOTAL DISPOSALS (___ MONTHS) _____ 0
PROCUREMENT LEADTIME: _____ months

5104
_____ 0
_____ 248
_____ 5352
_____ 0
_____ 0
_____ 0
_____ 0
_____ 0
_____ 0

APPROVED ACQUISITION OBJECTIVE

PROCUREMENT REQUIREMENT

Total FY97 Requirement	_____ 6401
Less Net Assets	_____ 5352
Required FY97 Procurement	_____ 1049
Planned FY97 Procurement	_____ 227

NET ASSETS:

_____ 5352

ACTUAL TRAINING EXPENDITURE

FY96 _____
FY95 _____
FY94 _____
FY93 _____
FY92 _____

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96 _____
FY95 _____
FY94 _____
FY93 _____
FY92 _____

REMARKS:

P-1 SHOPP LIST
ITEM NO. 110 125

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:
**OPAF/OTHER BASE MAINTENANCE AND
 SUPPORT EQUIPMENT
 ASSETS**

On Hand as of 31 Mar 95
 Due-in w/all Prior Years' Funds **See Remarks**
 Due-in w/FY96 Funds
TOTAL ASSETS:

4378

 7

 421

 4806

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
 FY97:
 FY98:
 FY99:
 FY00:
TOTAL DISPOSALS (___ MONTHS)
PROCUREMENT LEADTIME: _____ months

0

 0

 0

 0

 0

 0

NET ASSETS:

4806

ACTUAL TRAINING EXPENDITURE

FY96
 FY95
 FY94
 FY93
 FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY98
 FY95
 FY94
 FY93
 FY92

P-1 SHOPP LIST
 ITEM NO. 110

126

UNCLASSIFIED

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT

CONTAINERS NSN: 8145-01-118-9873

INVENTORY OBJECTIVE

Number of Combat Loads	_____
Assets Required for Combat Loads	_____
Combat Expenditures	_____
War Reserve Requirement	_____ 1
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	_____ 3470
Air National Guard Requirement	_____ 2230
Air Force Reserve Requirement	_____ 583

TOTAL REQUIREMENT _____ 6284

APPROVED ACQUISITION OBJECTIVE _____ 6284

PROCUREMENT REQUIREMENT

Total FY97 Requirement	_____ 6284
Less Net Assets	_____ 4806
Required FY97 Procurement	_____ 1478
Planned FY97 Procurement	_____ 345

REMARKS: Assets received between 31 Mar and 30 Sep 95.

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE AND MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95	8266	
Due-in w/all Prior Years' Funds	8	See Remarks
Due-in w/FY96 Funds	293	
TOTAL ASSETS:	8567	

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:	0	
FY97:	0	
FY98:	0	
FY99:	0	
FY00:	0	
TOTAL DISPOSALS (___ MONTHS)	0	

PROCUREMENT LEADTIME: _____ months

NET ASSETS:	8567	
-------------	-------------	--

ACTUAL TRAINING EXPENDITURE

FY96	_____	
FY95	_____	
FY94	_____	
FY93	_____	
FY92	_____	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	_____	
FY95	_____	
FY94	_____	
FY93	_____	
FY92	_____	

DATE: SEPTEMBER 1995
P-1 ITEM NOMENCLATURE: EMPLOYMENT/DEPLOYMENT
CONTAINERS NSN: 8145-01-118-9874

INVENTORY OBJECTIVE

Number of Combat Loads	_____
Assets Required for Combat Loads	_____
Combat Expenditures	_____
War Reserve Requirement	19
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	4899
Air National Guard Requirement	3556
Air Force Reserve Requirement	1015
TOTAL REQUIREMENT	9489

APPROVED ACQUISITION OBJECTIVE

	9489
--	-------------

PROCUREMENT REQUIREMENT

Total FY97 Requirement	9489
Less Net Assets	8567
Required FY97 Procurement	922
Planned FY97 Procurement	122

REMARKS: Assets received between 31 Mar and 30 Sep 95.

P-1 SHOPP LIST
ITEM NO. 110

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT

CONTAINERS NSN: 8145-01-118-9883

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds **See Remarks**
Due-in w/FY96 Funds
TOTAL ASSETS:

57

3

2

62

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL DISPOSALS (____ MONTHS)
PROCUREMENT LEADTIME: ____ months

0

0

0

0

0

0

NET ASSETS:

62

ACTUAL TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96
FY95
FY94
FY93
FY92

INVENTORY OBJECTIVE

Number of Combat Loads	CONTAINERS
Assets Required for Combat Loads	_____
Combat Expenditures	_____
War Reserve Requirement	_____ 0
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	_____ 39
Air National Guard Requirement	_____ 74
Air Force Reserve Requirement	_____ 0

TOTAL REQUIREMENT

_____ 113

APPROVED ACQUISITION OBJECTIVE

_____ 113

PROCUREMENT REQUIREMENT

Total FY97 Requirement	_____ 113
Less Net Assets	_____ 62
Required FY97 Procurement	_____ 51
Planned FY97 Procurement	_____ 1

REMARKS: Includes 3 ea assets delivered between Mar and Sep 95.

P-1 SHOPP LIST

ITEM NO. 110 129

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT

CONTAINERS NSN: 8145-01-118-9884

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER MAINTENANCE AND
SUPPORT EQUIPMENT
ASSETS**

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds **See Remarks**
Due-in w/FY96 Funds
TOTAL ASSETS:

6875
6
427
7308

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL DISPOSALS (___ MONTHS)
PROCUREMENT LEADTIME: _____ months

0
0
0
0
0
0

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	<u>19</u>
Annual Training	_____
Annual Testing	_____
Maintenance Pipeline	_____
Air Force Requirement	<u>5161</u>
Air National Guard Requirement	<u>2877</u>
Air Force Reserve Requirement	<u>857</u>

TOTAL REQUIREMENT 8914

APPROVED ACQUISITION OBJECTIVE 8914

PROCUREMENT REQUIREMENT

Total FY97 Requirement	<u>8914</u>
Less Net Assets	<u>7308</u>
Required FY97 Procurement	<u>1606</u>
Planned FY97 Procurement	<u>130</u>

REMARKS: Assets received between Mar - Sep 95.

P-1 SHOPP LIST
ITEM NO. 110 130

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: SPATIAL DISORIENTATION DEMONSTRATOR					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$0.000	\$0.000	\$1.947	\$1.925	\$3.804	\$5.673	\$9.382

1. The Advanced Spatial Disorientation Demonstrator (ASDD) is a training device which subjects an aircrew trainee to spatial disorientation caused by a combination of applied linear and angular accelerations and visual stimulation. The ASDD system will consist of (1) a planar motion system (2) multi-axis motion system position of the trainer (3) cockpit, (4) visual display system, (5) control/display status console, (6) communications system (7) closed circuit television system for maintaining observation of the trainee in the cockpit under all fighting conditions.

2. The ASDD is capable of closely representing actual aircraft flight illusions which may occur in various phases or conditions of flight. The complex multifaceted human factor issues involved are not being adequately addressed with the current training device.

3. The Air Force primary spatial disorientation demonstrator is the Vista Vertigon, which is at the end of its useful life. The Mean Time Between Failure (MTBF) has become operationally unacceptable and the Mean Time to Repair (MTTR) continues to increase. Air Force mishaps continue to identify spatial disorientation as a finding in numerous mishaps with fatalities. According to Air Force Safety Class A mishap data (1980-1989), 76 percent (270 mishaps) of all operations-related accidents had loss of situational awareness as a suspected or definite contributor of the mishap. These mishaps represented 85 percent of the operations related fatalities and 80 percent of the cost. New technology in visual display for rotating devices such as the Spatial Orientation Demonstrator is directed at reducing these mishaps and improving pilot performance. FY97 funds will procure one ASDD. The inventory objective is twelve.

4. Without the ASDD, pilot training will be degraded due to increasing unsupportability of the old trainer. Lack of effective training will result in unsafe pilot decisions that could cause loss of aircraft and/or life.

5. Item Code: A

ANG/AFR: None

	P-1 SHOPP LIST ITEM NO.111	PAGE NO. 131	
--	-------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE SPATIAL DISORIENTATION DEMONSTRATOR						
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

Spatial Disorientation Demonstrator										
7	Environmental Tectonics So Hampton PA	SS/FP	AFMC/OO-ALC	Jul 97	May 98	1	1,947,000	Yes	No	

D. REMARKS		
Unit cost is based on contractor's estimate.		
P-1 SHOPP LIST ITEM NO. 111	PAGE NO. 132	Exhibit P-5a Procurement History and Planning

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPMENT**

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: SPATIAL DISORIENTATION DEMONSTRATOR

ASSETS

On Hand as of 31 Mar 95	0
Due-in w/all Prior Years' Funds	0
Due-in w/FY96 Funds	0
TOTAL ASSETS:	0

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:	0
FY97:	0
FY98:	0
FY99:	0
FY00:	0
TOTAL DISPOSALS(___MONTHS)	0

PROCUREMENT LEADTIME: _____ months

NET ASSETS:	0
-------------	---

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	12
Air National Guard Requirement	0
Air Force Reserve Requirement	0
TOTAL REQUIREMENT	12

APPROVED ACQUISITION OBJECTIVE

	12
<u>PROCUREMENT REQUIREMENT</u>	
Total FY97 Requirement	12
Less Net Assets	0
Required FY97 Procurement	12
Planned FY97 Procurement	1

REMARKS:

P-1 SHOPP LIST

ITEM NO. 111 134

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE AIR CONDITIONERS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$0.000	\$0.000	\$0.803	\$9.627	\$5.873	\$3.648	\$0.000

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 BTU/HR, 5 tons. It provides environmental control, both cooling and heating, for aircraft electronic maintenance shops, portable buildings and 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 chlorodifluoromethane (HCFC-22) which is a Class II ozone layer depleting substance due for phase out by 2005. This item, which will contain a non-ozone depleting refrigerant, is required for the Government to be in compliance with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act requiring the elimination of HCFC-22 refrigerant. Procurement of these air conditioners is required to provide support to field hospitals and prevent premature failure of electronic equipment during aircraft testing procedures as well as be in compliance as stated above.

- 3. ITEM CODE: A
- 4. ANG/AFR: NONE

	P-1 SHOPP LIST ITEM NO. 112	PAGE NO. 135	
--	--------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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
FY90	Airtacs Corp Red Lion PA	Option	AFLC/SA-ALC	Jun 90	May 93	380	2,500			
FY97	Unknown	C/FFP	AFMC/SA-ALC	Mar 97	Jun 98	3'	17500 ²	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 and includes a unit cost of \$17,500 each plus \$250,000 for testing and \$500,000 for production tooling and molds.

	P-1 SHOPP LIST ITEM NO. 112	PAGE NO. 136	Exhibit P-5a Procurement History and Planning
--	--------------------------------	-----------------	---

UNCLASSIFIED

UNCLASSIFIED REQUIREMENTS STUDY

**APPROPRIATION / BUDGET ACTIVITY:
OPAF/OTHER BASE MAINTENANCE AND
SUPPORT EQUIPEMENT**

DATE: MARCH 1996

P-1 ITEM NOMENCLATURE: AIR CONDITIONERS

ASSETS

On Hand as of 31 Mar 95
Due-in w/all Prior Years' Funds
Due-in w/FY96 Funds
TOTAL ASSETS:

2788

0

0

2788

DISPOSALS (Planned & Projected thru FY97 FDP)

FY96 since as of date:
FY97:
FY98:
FY99:
FY00:
TOTAL DISPOSALS (MONTHS)
PROCUREMENT LEADTIME: months

0

0

0

0

0

NET ASSETS:

2788

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
Air National Guard Requirement
Air Force Reserve Requirement

4049

1212
358
100

TOTAL REQUIREMENT

5719

APPROVED ACQUISITION OBJECTIVE

5719

PROCUREMENT REQUIREMENT

Total FY97 Requirement
Less Net Assets
Required FY97 Procurement
Planned FY97 Procurement

5719
2788
2931
3*

**REMARKS: FY97 procurement will be first article units only.
One asset will be destroyed in testing.**

P-1 SHOPP LIST
ITEM NO. 112

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE SUPPORT EQUIPMENT)					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		\$17.300	\$9.053	\$4.971	\$12.867	\$14.630	\$16.108	\$19.210

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, compressors which have various applications, refrigeration units, heaters, and trailer mounted steam cleaners.

2. All items proposed for procurement in FY97 have an annual procurement value of less than \$2,000,000. The items, which are all Code A, are identified below.

NOMENCLATURE	NSN	QTY	FY97 DOLLARS
Compressor, Air Type MC-5	4310-00-595-3865	25	.433
Tactical Maintenance Shelter, S530, 40HZ	5410-01-067-9384	4	.993
Tactical Maintenance Shelter	5411-01-072-2517EJ	2	.534
BAK-15 A/C Arresting System	1710-01-418-5978	1	.309
BAK-12 A/C Arresting System	1710-01-098-5024	6	1.310
Guard Dogs		225	.850
Conveyor Highline Dock	3910-00-405-3453CT	21	.433
Items Less Than \$100 thousand			.109
TOTAL			4.971

	P-1 SHOPP LIST ITEM NO. 113	PAGE NO. 139	
--	--------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE ITEMS LESS THEN \$2,000,000 (BASE SUPPORT EQUIPMENT)				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY95			2,300,000			105,000
FY96			1,500,000			0
FY97			1,500,000			0

	P-1 SHOPP LIST ITEM NO.113	PAGE NO. 140	
--	-------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE MARCH 1996			
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	\$1.864	\$.992	\$1.061	\$.995	\$1.091	\$2.116	\$2.162	

The Technical Surveillance Countermeasures Equipment Program is a continuous program for the acquisition of Technical Surveillance Countermeasures (TSCM), Technical Investigative Equipment (TIE) and Investigative Support Equipment in support of the Air Force Office Of Special Investigations (AFOSI). AFOSI trained technical agent teams located on Air Force installations worldwide conduct specialized technical surveys to detect clandestine intelligence gathering devices in sensitive Department of Defense (DOD) facilities. These devices may be targeted against facilities for purposes of counterintelligence or competitive intelligence collections. These same agents also conduct numerous technical support operations annually in support of criminal, fraud, and counterintelligence investigations.

Some items of equipment 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. 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. 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. 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 could 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.

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 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 teams presence as well as equipment to examine telephone systems to determine their security. Additionally, equipment is needed to conduct non-destructive examinations of walls, furniture, etc. for concealed devices.

P-1 SHOPP LIST ITEM NO. 115	PAGE NO. 141
--------------------------------	-----------------

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

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 must often be done remotely and specialized equipment to clandestinely transmit the images and audio must be used. Advances in telephone systems requires 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.

3. Specialized Test Equipment. New TSCM equipment utilizes state-of-the-art technology to keep abreast of advancing technical penetration efforts. Along with this new technology, there is increasingly sophisticated maintenance procedures and tighter calibration standards. Equally sophisticated test equipment is required to support this equipment. Additionally, specially designed and modified test equipment must be utilized to ensure the surveillance equipment used by AFOSI is functioning properly and will provide consistent high quality evidence.

4. Digital Imaging/Storage Systems. These systems encompass both visual image (e.g., picture) and printed image (e.g., 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.

P-1 SHOPP LIST
ITEM NO. 115

PAGE NO.

142

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)								

5. **Computer Crime and Intrusion Investigation Systems.** This system of equipment specifically supports the growing investigative case load resulting from increasing use of computers as implements of a crime and 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.

	P-1 SHOPP LIST ITEM NO. 115	PAGE NO. 143	
--	--------------------------------	-----------------	--

UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE MARCH 1996		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					MULTIPLE CONTRACTORS					
Weapon System Cost Elements	IDENT CODE				FY 1995			FY 1996			FY 1997		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. TSCM Survey Systems													
A. Portable TSCM Receivers	A				1	130	130	4	130	520	8	130	1040
B. Upgrade X-Ray Systems	A				30	23	690						
2. Specialized Law Enforcement Surveillance Equipment													
Audio/Video Surv Equip	A				2	15	30	2	31	62	1	21	21
3. Specialized Test Equipment													
	A				1	210	210	2	70	140			
4. Digital Imaging/Storage Equipment													
	A				1	500	500						
5. Computer Crime/Intrusion Investigation System													
	A				1	304	304	10	27	270			
TOTAL							1,864			992			1,061

P-1 SHOPP LIST
ITEM NO. 115

PAGE NO.
144

Exhibit P-5 Weapon System Cost Analysis

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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										
FY95	Watkins Johnson Gaithersburg MD	SS/FFP	AFMC/ASC	Mar 96	Jun 96	1	130	Yes	No	
FY96	Watkins Johnson Gaithersburg MD	SS/FFP	AFMC/ASC	Mar 96	Jun 96	4	130	Yes	No	
FY97	Watkins Johnson Gaithersburg MD	SS/FFP	AFMC/ASC	Dec 96	Jun 97	8	130	Yes	No	
B. Upgrade X-Ray Systems										
FY95	SAIC Inc. San Diego CA	SS/FFP	AFMC/ASC	Jan 96	Mar 96	30	23			
2. Specialized Law Enforcement Surveillance Equipment										
Audio/Video Surv Equipment										
FY95	FBI TGA Technologies Norcross GA	MIPR	WR-ALC/ASC	Jan 96	May 96	2	15			
FY96	FBI TGA Technologies Norcross GA	Option	AFMC/ASC	Apr 96	Jun 96	2	31	Yes	No	
FY97	FBI TGA Technologies Norcross GA	Option	AFMC/ASC	Jan 97	Mar 97	1	21	Yes	No	
D. REMARKS										
				P-1 SHOPP LIST ITEM NO. 116	PAGE NO. 145	Exhibit P-5a Procurement History and Planning				

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE MARCH 1996		
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. Specialized Test Equipment										
FY95	Hewlett Packard Rockville MD	SS/FFP	AFMC/ASC	Jan 96	Apr 96	1	210			
FY96	Hewlett Packard Rockville MD	SS/FFP	AFMC/ASC	Jul 96	Oct 96	2	70	Yes	No	
4. Digital Imaging/Storage Equip										
FY95	Kodak Rochester, NY	SS/FFP	AFMC/ASC	Jan 96	Jul 96	1	500			
5. Computer Crime/Intrusion Investigation System										
FY95	Astro Systems Bethesda MD	C/FFP	ACMC/ASC	Jan 96	Jan 96	1	304			
FY96	Unknown	C/FFP	AFMC/ASC	May 96	Jul 96	10	27	Yes	No	

D. REMARKS		
	P-1 SHOPP LIST ITEM NO. 116	PAGE NO. 146
Exhibit P-5a Procurement History and Planning		

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE MARCH 1996				
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: INDUSTRIAL PREPAREDNESS					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)	\$1.013	\$1.115	\$1.351	\$1.443	\$1.474	\$1.509	\$1.542	

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, affordable systems to operational commanders during peacetime and national emergencies. The program acknowledges the industrial base as a vital element in war deterrence and sustainability. 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 process.

2. Industrial Base activities funded by this P-1 line provides identification, analysis, and limited pilots and/or pathfinders for problems, constraints, essential and endangered capabilities in the industrial base sectors for communications/electronics and space systems. Collection and maintenance of industrial base sector data for communication/electronic and space systems support affordable acquisition and sustainability requirements

3. ANG/AFR: None

P-1 SHOPP LIST
ITEM NO. 119

PAGE NO.
147

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996		
APPROPRIATION/BUDGET ACTIVITY OPAF/BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE MODIFICATIONS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mill)		.818	.098	.195	.193	.190	.189	.188

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 new on-going modification efforts for base maintenance and support equipment. Modification installation funding is budgeted in the year the installation will physically be done. The amount budgeted in FY96/97 for "Miscellaneous Low Cost Modifications" is to satisfy historically unforeseen modification requirements such as the repowering effort of existing Air Force NF-2D portable floodlight units which are essential for performing night maintenance on aircraft.

1. The SELF-CONTAINED BREATHING APPARATUS is a new generation, state of the art breathing apparatus which is self contained, lightweight, and capable of providing two hours of air to the user. While Air Force fire fighters are the primary users, it is also used by other personnel, such as Explosives Ordnance Disposal personnel, who have disaster response duties and are to be in close proximity to accident sites and, therefore require protection from toxic smoke and fumes.

SCBA MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY95	FY96	FY97	FY98	FY99
MN8382	SELF-CONTAINED BREATHING APP		.818				
MISC	MISC LOW COST MODS			.098	.195	.193	.190

P-1 SHOPP LIST ITEM NO. 120	PAGE NO. 148
-----------------------------------	-----------------

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment			P-1 ITEM NOMENCLATURE: FIRST DESTINATION TRANSPORTATION				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	\$13.331	\$12.399	\$13.534	\$14.992	\$14.720	\$15.135	\$15.233

1. 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.

2. The requested funding will provide for shipment of items procured F.O.B. origin with the Air Force procurement appropriations (aircraft, missile and other). The requirement is based on material buy programs in the procurement appropriations and is computed using a factor relationship of FDT costs to the value of procurement programs.

	P-1 SHOPP LIST ITEM NO. 121	PAGE NO. 149	
--	--------------------------------	-----------------	--

UNCLASSIFIED

SPARES AND REPAIR PARTS

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1997

Table of Contents

Spares and Repair Parts

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
122	Spares and Repair Parts	1

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)

DATE
MARCH 1996

APPROPRIATION/BUDGET ACTIVITY OPAF/SPARES AND REPAIR PARTS			P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS					
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (In Mil)		29.342	59.508	37.051	50.778	36.331	30.089	27.227

1. Initial Spares are reparable components, assemblies, and subassemblies required as initial stockage (including readiness spares package requirements) in support of: newly fielded vehicles; other base maintenance and support items; 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 (AFSMB) Defense Business Operations Fund (DBOF) with the exception of intelligence, and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through DBOF, procurement funds will reimburse the AFSMBA as outlays occur; and are therefore, budgeted based on outlay projections. Funds for spares not managed by 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 Stock Exempt funds procure non-stock listed spares in support of classified programs which are not managed by the Standard Base Supply System.

3. FY95 funding includes Vehicles, Communications-Electronics, and Other Base Maintenance & Support Equipment budgeted and appropriated in the Other Base Maintenance & Support Equipment (budget activity four). FY95 munitions spares funding was appropriated in P-1 line number 26 in Procurement of Ammunition, Air Force.

4. FY97 Munitions spares funding is requested in P-1 line number 54 in the Air Force Missile Procurement Appropriation.

5. Effective FY96, spares and repair parts funding for OPAF budget programs is budgeted in a new budget activity five (Spares and Repair Parts). A further breakout by program begins on the next page.

P-1 SHOPP LIST
ITEM NO.
122

PAGE NO.
1

UNCLASSIFIED

UNCLASSIFIED

INITIAL SPARE AND REPAIR PARTS SUMMARY EXHIBIT (P-1S)		DATE MARCH 1996		
APPROPRIATION/SERVICE: OTHER PROCUREMENT/AIR FORCE	MILLIONS OF DOLLARS			
		FY95	FY96	FY97
INITIAL SPARES		28.861	58.882	36.421
REPLENISHMENT SPARES		.731	.626	.630
TOTAL		29.342	59.508	37.051

UNCLASSIFIED

INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			P-1 ITEM NOMENCLATURE		
OPAF/SPARES AND REPAIR PARTS			SPARES AND REPAIR PARTS		
		FY 95	FY 96	FY 97	TOTAL COST

P-1 Line No. 26, 32 VEHICULAR EQUIPMENT		.038	.188	.132	.358
P-1 Line No. 36 COMSEC		.367	.687	.732	1.786
P-1 Line No. 40 INTEL COMMUNICATIONS EQUIPMENT		.462	.837	0	1.299
P-1 Line No. 42 THEATER AIR CONTROL SYSTEM IMPRV		7.580	11.136	6.694	25.410
P-1 Line No. 43 WEATHER OBSERVATION/FORECAST		2.249	3.675	.828	6.752
P-1 Line No. 44 STRATEGIC COMMAND AND CONTROL		0	.328	0	.328
P-1 Line No. 45 CHEYENNE MOUNTAIN COMPLEX		4.218	5.792	2.701	12.711
P-1 Line No. 46 TAC SIGINT SUPPORT		.662	.506	.463	1.631
P-1 Line No. 51 MOBILITY COMMAND & CONTROL		.955	2.260	.581	3.796
P-1 Line No. 52 AIR FORCE PHYSICAL SECURITY		.869	2.120	2.808	5.797

P-1 SHOPP LIST ITEM NO. 122	PAGE NO. 3	Exhibit P-18a, Spare and Repair Parts Requirements
--------------------------------	---------------	--

UNCLASSIFIED

UNCLASSIFIED

INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			P-1 ITEM NOMENCLATURE		
OPAF/SPARES AND REPAIR PARTS			SPARES AND REPAIR PARTS		
		FY 95	FY 96	FY 97	TOTAL COST

P-1 Line No. 53 COMBAT TRAINING RANGES		2.862	5.180	1.456	9.498
P-1 Line No.56 THEATER BATTLE MANAGEMENT C2 SYS		.126	5.920	0	6.046
P-1 Line No. 63 DEFENSE SUPPORT PROGRAM		.584	3.299	2.936	6.819
P-1 Line No. 65 NAVSTAR GPS		.062	.084	.052	.198
P-1 Line No. 66 DEFENSE METEOR SATELLITE PROGRAM		.884	1.400	1.618	3.902
P-1 Line No. 68 AIR FORCE SATELLITE CONTROL		.614	1.375	.794	2.783
P-1 Line No. 69 EASTERN RANGE		0	0	1.710	1.710
P-1 Line No. 70 MILSATCOM		2.032	5.117	5.200	12.349
P-1 Line No. 71 SPACE MODS		.825	1.896	3.177	5.898
P-1 Line No. 72 TAC C-E EQUIPMENT		1.867	2.445	2.270	6.582

P-1 SHOPP LIST ITEM NO. 122	PAGE NO. 4	Exhibit P-18a, Spare and Repair Parts Requirements
--------------------------------	---------------	--

UNCLASSIFIED

UNCLASSIFIED

INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE MARCH 1996	
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			P-1 ITEM NOMENCLATURE		
OPAF/SPARES AND REPAIR PARTS			SPARES AND REPAIR PARTS		
		FY 95	FY 96	FY 97	TOTAL COST

P-1 Line No. 75 TV EQUIPMENT (AFRTV)		.018	.053	.091	.162
P-1 Line No. 80 C-E MODS		.448	2.239	.458	3.145
P-1 Line No. 95 ITEMS LESS THAN \$2M, BASE SUPPORT		.304	.420	1.587	2.311
P-1 Line No. 100 AIR BASE OPERABILITY		.014	.222	.568	.804
P-1 Line No. None JOINT TAC COMM PROGRAM		1.213	1.529	0	2.742
P-1 Line No. None WEAPONS STORAGE AND SECURITY		.089	.800	.195	1.084
TOTAL		29.342	59.508	37.051	125.901