

UNITED STATES AIR FORCE

Committee Staff Procurement Backup Book Fiscal Years 2000/2001 Biennial Budget Estimates



February 1999

AIRCRAFT PROCUREMENT, AIR FORCE

VOLUME I

OPR: SAF/FMB

UNCLASSIFIED



**Volume I
AIRCRAFT PROCUREMENT**

FY 2000/2001 PRESIDENT'S BUDGET SUBMISSION
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AIRCRAFT PROCUREMENT, AIR FORCE

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spare parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the forgoing 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; and other expenses necessary for the foregoing purposes including rents and transportation of things; to remain available for obligation until September 30.

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GLOSSARY
OF ACRONYMS

ACTD - Advanced Concept Technology Demonstration
AGM - Air-to-Ground Missile
AIM - Air Intercept Missile
AIS - Avionics Intermediate Shop
ACMI - Aircraft Combat Maneuvering Instrumentation
AMRAAM - Advanced Medium-Range Air-to-Air Missile
AUTODIN - Automated Digital Network
AWACS - Airborne Warning and Control System
BLSS - Base Level Self-Sufficiency Spares
BY - Budget Year
C3 - Command, Control, and Communication System
CFE - Contractor Furnished Equipment
CONOPS - Concept of Operation
CONUS - Continental United States
CPMS - Comprehensive Power Management System
CPT - Cockpit Procedures Trainer
CRA - Continuing Resolution Authority
CTS - Countermeasures Test Set
CY - Current Year
DDTE - Design, Development, Test and Evaluation
ECCM - Electronic Counter Counter Measures
ECM - Electronic Counter Measures
ECO - Engineering Change Orders
EOQ - Economic Order Quantity
ECP - Engineering Change Proposal

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EGPWS - Enhance Ground Proximity Warning System
EPA - Economic Price Adjustment
EW - Electronic Warfare
EWAIISP - Electronic Warfare Avionics Integration Support Facility
FLIR - Forward Looking Infra Red
FOT&E - Follow-on Test and Evaluation
FOC - Fully Operational Capability
FLTS - Flight Line Test Set
FPIF - Fixed Price Incentive Firm
FPIS - Fixed Price Incentive Fee, Successive Targets
GANS - Global Access Navigation & Safety
GATM - Global Air Traffic Management
GFE - Government Furnished Equipment
GPS - Global Positioning System
GSE - Ground Support Equipment
IOC - Initial Operating Capability
IPE - Increased Performance Engine
JPALS - Joint Precision Approach and Landing System
LANTIRN - Low Altitude Navigation and Targeting Infra Red System for Night
METS - Mobile Electronic Test Stations
MYP - Multiyear Procurement
MSIP - Multi-Stage Improvement Program
NAVWAR - Navigation Warfare
NMC Rate - Not Mission Capable Rate
OFP - Operational Flight Program
OT&E - Operational Test and Evaluation
OWRM - Other War Reserve Material
PAGEL - Priced Aerospace Ground Equipment List
PB - President's Budget
PGSE - Peculiar Ground Support Equipment
PMC - Procurement Method Code

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PR - Purchase Request
PTT - Part Task Trainer
PY - Prior Year
R&M - Reliability and Maintainability
RAA - Required Asset Availability
RDT&E - Research, Development, Test and Evaluation
RVSM - Reduced Vertical Separation Minimum
RWR - Radar Warning Receiver
ROM - Rough Order of Magnitude
SAM - Surface-to-Air Missile
SS - Sole Source
SOF - Special Operation Force
TAF - Tactical Air Force
TCAS - Traffic Collision Alert and Avoidance System
TEWS - Tactical Electronic Warfare System
TISS - TEWS Intermediate Support System
TOA - Total Obligation Authority
WMP - War Mobilization Plan
WRM - War Reserve Material
WST - Weapon System Trainer
UAV - Unmanned Aerial Vehicle
UHF - Ultra High Frequency
USA - United States of America
VHSIC - Very High Speed Integrated Circuit

**UNCLASSIFIED
ORGANIZATIONS**

ACC - Air Combat Command
AFMC - Air Force Material Command
ALC - Air Logistics Center
ASC - Aeronautical Systems Center
ATC - Air Training Command
FAA - Federal Aviation Administration
NATO - North Atlantic Treaty Organization
OSD - Office of the Secretary of Defense
PACAF - Pacific Air Forces
USAFE - United States Air Forces Europe

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TERMS

Advanced Buy - Obligating fund for longlead material/component is advance of the fiscal year the end item is authorized and procurement starts

Avionics - Electronic equipment on-board aircraft

Boresight - An optical reference line used in harmonizing guns, rockets on other weapon launchers

Chaff Flare - Radar and infrared countermeasures

Depot - Wholesale level repair and supply point

Drone - An object used for target practice

Fly by wire - Full authority electronic flight control system

Ground Clutter - Objects on the ground which cause distorted or misleading radar readings

Interdiction - Operational term for behind the front line bombing

Inter theater - Global

Intratheater - Within given area

Mobilization - The ability to move war fighting equipment from one place to another

Multi Stage Improvement Program - A phased program for upgrading the F-15 and F-16

Off the Shelf - Commercially available equipment

Pipeline Standards - The expected average time it takes for a component to be removed from the aircraft, repaired and returned for use in serviceable condition

Prototype - A working model transforming a developmental idea into reality

Provisioning - The process of determining and contracting for spare parts required to support new production systems for the initial support period

Pylon - Munitions adapter

Readiness - Ability to go to war and support initial deployment

Robotics - Automated manufacturing technique

S-Band - Radio frequency spectrums from 1550 to 3900 MHZ

Solicitation - The process of requesting proposals from private industry for goods and services required by the government

Surge - The period of time between normal operations and increased operations

Sustainability - Ability to sustain wartime combat rates after initial surge

Target - See Drone

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

		MILLIONS OF DOLLARS									
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
											C
BUDGET ACTIVITY 01: COMBAT AIRCRAFT											

STRATEGIC OFFENSIVE											
1	2.75 INCH ROCKET MOTOR ADVANCE PROCUREMENT (CY) (FY 2000 FOR FY 2008) (MEMO)										U
2	B-1B (MYP)	B		10.7							U
3	B-2A (MYP)	B		175.7							U
TACTICAL FORCES											
4	F-22 RAPTOR LESS: ADVANCE PROCUREMENT (PY)	A			2	(650.9) (-71.5)	6	(1,766.2) (-191.2)	10	(2,426.5) (-278.8)	U U
						579.4		1,575.0		2,147.8	
5	F-22 RAPTOR ADVANCE PROCUREMENT (CY) (FY 1998 FOR FY 1999) (MEMO) (FY 1998 FOR FY 2000) (MEMO) (FY 1998 FOR FY 2001) (MEMO) (FY 1998 FOR FY 2002) (MEMO) (FY 1998 FOR FY 2003) (MEMO) (FY 1999 FOR FY 2000) (MEMO) (FY 2000 FOR FY 2001) (MEMO) (FY 2001 FOR FY 2002) (MEMO)			73.3 (71.2) (.2) (.4) (.6) (.9)		189.7		277.1		396.2	U
6	F-15A LESS: ADVANCE PROCUREMENT (PY)	A	5	(232.9) (-18.9)		(11.0) (-11.0)					U U
				214.0							
7	F-15A ADVANCE PROCUREMENT (CY) (FY 1998 FOR FY 1999) (MEMO)										U
8	F-16 C/D (MYP)	A	3	79.0	1	29.9	10	252.6			U
TOTAL COMBAT AIRCRAFT				552.7		799.0		2,104.7		2,544.0	

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

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APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	S E C
BUDGET ACTIVITY 02: AIRLIFT AIRCRAFT											
TACTICAL AIRLIFT											
9	C-17 (MYP)	B	9	(2,104.1)	13	(2,915.6)	15	(3,439.6)	15	(3,421.6)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-245.1)		(-327.2)		(-359.5)		(-360.9)	U
				1,858.9		2,588.4		3,080.1		3,060.7	
10	C-17 (MYP)										
	ADVANCE PROCUREMENT (CY)			272.0		302.6		304.9		307.8	U
	(FY 1998 FOR FY 1999) (MEMO)			(272.0)							
	(FY 1999 FOR FY 2000) (MEMO)					(302.6)					
	(FY 2000 FOR FY 2001) (MEMO)							(304.9)			
	(FY 2001 FOR FY 2002) (MEMO)									(307.8)	
OTHER AIRLIFT											
11	WC-130	A	2	123.8	1	75.2					U
12	EC-130J	A	1	48.4	1	84.8					U
13	C-130H	A				11.1					U
14	C-130J	A		25.6		29.4		30.6		30.9	U
TOTAL AIRLIFT AIRCRAFT				2,328.7		3,091.5		3,415.7		3,399.5	
BUDGET ACTIVITY 03: TRAINER AIRCRAFT											
OPERATIONAL TRAINERS											
15	JPATS	A	22	73.3	22	105.9	21	88.2	27	97.2	U
TOTAL TRAINER AIRCRAFT				73.3		105.9		88.2		97.2	

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	S E C
BUDGET ACTIVITY 04: OTHER AIRCRAFT											
HELICOPTERS											
16	V-22 OSPREY	A				(22.2)		(29.2)	4	(358.7)	U
	LESS: ADVANCE PROCUREMENT (PY)									(-20.3)	U
						22.2		29.2		338.4	
17	V-22 OSPREY							20.3		27.2	U
	ADVANCE PROCUREMENT (CY)							(20.3)			
	(FY 2000 FOR FY 2001) (MEMO)										
	(FY 2001 FOR FY 2002) (MEMO)									(27.2)	
MISSION SUPPORT AIRCRAFT											
18	SMALL VCX	A	1	5.7	4	160.2					U
19	C-32A	A	2	(180.8)	2	(160.4)					U
	LESS: ADVANCE PROCUREMENT (PY)										U
				180.8		160.4					
20	C-32A										U
	ADVANCE PROCUREMENT (CY)										
	(FY 2000 FOR FY 2001) (MEMO)										
	(FY 2001 FOR FY 2002) (MEMO)										
21	CIVIL AIR PATROL A/C	A	27	2.9	27	3.0	27	2.5	27	2.6	U
OTHER AIRCRAFT											
22	TARGET DRONES	A						36.2		37.4	U
23	E-8C	A	1	(369.6)	2	(477.7)	1	(316.2)		(11.5)	U
	LESS: ADVANCE PROCUREMENT (PY)										U
				(-67.0)		(-18.0)		(-35.9)			
				302.6		459.6		280.3		11.5	
24	E-8C										U
	ADVANCE PROCUREMENT (CY)			18.0		35.9					
	(FY 1998 FOR FY 1999) (MEMO)			(18.0)							
	(FY 1999 FOR FY 2000) (MEMO)					(35.9)					

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EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS								S E C
			QUANTITY	FY 1998 COST	QUANTITY	FY 1999 COST	QUANTITY	FY 2000 COST	QUANTITY	FY 2001 COST	
25	HAEUAV	A								31.5	U
26	PREDATOR UAV	A	20	135.8	15	114.2	3	38.0	6	22.6	U
TOTAL OTHER AIRCRAFT				645.8	955.5	406.4	471.3				
BUDGET ACTIVITY 05: MODIFICATION OF INSERVICE AIRCRAFT											
STRATEGIC AIRCRAFT											
27	B-2A	A		50.2		15.6		20.1		42.5	U
28	B-1B	A		109.1		91.4		130.4		64.3	U
29	B-52	A		34.8		46.5		16.0		8.6	U
30	F-117	A		24.9		25.6		34.6		29.6	U
TACTICAL AIRCRAFT											
31	A-10	A		21.2		31.0		24.4		44.1	U
32	F-15	A		173.6		240.7		263.5		312.9	U
33	F-16	A		208.6		238.4		249.5		271.2	U
34	EF-111	A									U
35	T/AT-37	A		*		.1		.1		.1	U
AIRLIFT AIRCRAFT											
36	C-5	A		84.7		82.4		70.0		180.6	U
37	C-9	A		15.6		12.8		11.9		15.7	U
38	C-17A	A		39.9		55.1		95.6		107.6	U
39	C-21	A		6.9		59.8		8.7		6.8	U
40	C-22	A		.3		.2		.2			U
41	C-STOL	A		*							U

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
42	C-32A	A						.5		24.6	U
43	C-37A	A						.4		.4	U
44	C-137	A		2.0							U
45	C-141	A		43.4		33.2		10.0		.8	U
TRAINER AIRCRAFT											
46	T-1	A		6.7		7.6		*			U
47	T-3 (EFS) AIRCRAFT	A		3.0		.1		2.2		3.5	U
48	T-38	A		7.2		50.4		94.5		147.1	U
49	T-41 AIRCRAFT	A		.1		.1		.1		.1	U
50	T-43	A		5.7		2.2		.7		3.6	U
OTHER AIRCRAFT											
51	KC-10A (ATCA)	A		24.0		54.5		53.4		42.4	U
52	C-12	A		4.0		3.8		2.4		1.6	U
53	C-18	A		.3		.4		.3		.4	U
54	C-20 MODS	A		6.0		6.6		3.5		12.9	U
55	VC-25A MOD	A		15.9		7.4		9.3		.1	U
56	C-130	A		129.3		120.6		207.6		162.2	U
57	C-135	A		141.4		290.2		347.1		348.0	U
58	DARP	A		144.2		138.8		138.4		138.4	U
59	E-3	A		120.9		112.5		124.1		110.7	U
60	E-4	A		12.7		9.3		20.0		35.6	U
61	E-8	A				44.1		28.6		15.5	U
62	H-1	A		.8		1.9		.3		6.8	U

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS				S E C				
			FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST		FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST
63	H-60	A		11.2		17.1		15.6		20.0	U
64	OTHER AIRCRAFT	A		34.2		17.2		20.2		12.1	U
65	PREDATOR MODS	A				3.5					U
OTHER MODIFICATIONS											
66	CLASSIFIED PROJECTS	A		7.2		7.5		9.4		17.2	U
TOTAL MODIFICATION OF INSERVICE AIRCRAFT				1,489.9		1,828.5		2,013.5		2,187.6	
BUDGET ACTIVITY 06: AIRCRAFT SPARES AND REPAIR PARTS											

AIRCRAFT SPARES + REPAIR PARTS											
67	SPARES AND REPAIR PARTS	A		336.1		520.9		420.9		420.2	U
TOTAL AIRCRAFT SPARES AND REPAIR PARTS				336.1		520.9		420.9		420.2	
BUDGET ACTIVITY 07: AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES											

COMMON SUPPORT EQUIPMENT											
68	COMMON SUPPORT EQUIPMENT	A		144.0		157.7		171.4		183.2	U
POST PRODUCTION SUPPORT											
69	A-10	A		2.6		11.4		8.3			U
70	B-2A	A				238.6		106.9		30.1	U
71	C-5	A				28.4					U
72	F-15 POST PRODUCTION SUPPORT	A		6.0		7.1		7.4		7.5	U
73	F-16 POST PRODUCTION SUPPORT	A		36.8		37.1		30.0		26.1	U
INDUSTRIAL PREPAREDNESS											
74	INDUSTRIAL PREPAREDNESS	A		23.8		19.0		24.8		26.0	U

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DEPARTMENT OF THE AIR FORCE
 FY 2000/2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

MILLIONS OF DOLLARS											
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	S E C
----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-
	WAR CONSUMABLES										
75	WAR CONSUMABLES	A		48.4		34.6		29.3		43.3	U
	OTHER PRODUCTION CHARGES										
76	MISC PRODUCTION CHARGES	A		240.3		204.0		339.6		363.2	U
	COMMON ECM EQUIPMENT										
77	COMMON ECM EQUIPMENT	A		6.4		11.9		4.9		5.0	U
	OTHER PRODUCTION CHARGES - SOF										
78	CANCELLED ACCOUNT PY ADJUSTMENTS	A		5.8							U
	DARP										
79	DARP			171.4		141.4		130.1		119.1	U
	TOTAL AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES			685.6		891.3		852.7		803.3	
	TOTAL AIRCRAFT PROCUREMENT, AIR FORCE			6,112.0		8,192.6		9,302.1		9,923.1	

FY00 President's Budget

BUDGET ITEM JUSTIFICATION SHEET							Date: February 1999			
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE			
AIRCRAFT PROCUREMENT/BA01,COMBAT AIRCRAFT							B-1B BOMBER			

	FY 1996	FY 1997	FY1998	FY1999	FY2000	FY 2001	FY 2002	FY 2003	To Comp	Total
QUANTITY	0	0	0	0	0	0	0	0	0	0
COST (IN millions)	54.4	13.5	10.7	0	0	0	0	0	0	78.6
Initial Spares (in M)	0	0	0	0	0	0	0	0	0	0
Total (In Millions)	54.4	13.5	10.7	0	0	0	0	0	0	78.6
Unit Cost (in M)										

MISSION AND DESCRIPTION:

The B-1B has been designated as the "backbone" of the conventional bomber force. National Security will increasingly depend on conventional bombers to meet the demands of responding rapidly to security threats from various regions around the world. The B-1B is the weapon system to meet the challenge of these threats. Funding will support Interim Contractor Support (ICS) repair until organic capability can be established. Organic repair capability is projected to be completed in FY 2000.

FY00 President's Budget

BUDGET ITEM JUSTIFICATION SHEET		Date: February 1999
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE
AIRCRAFT PROCUREMENT/BA01,COMBAT AIRCRAFT		B-1B BOMBER

	FY 1996	FY 1997	FY1998	FY1999	FY2000	FY 2001	FY 2002	FY 2003	To Comp	Total
QUANTITY	0	0	0	0	0	0	0	0	0	0
COST (IN millions)	54.4	13.5	10.7	0	0	0	0	0	0	78.6
Initial Spares (in M)	0	0	0	0	0	0	0	0	0	0
Total (In Millions)	54.4	13.5	10.7	0	0	0	0	0	0	78.6
Unit Cost (in M)										

MISSION AND DESCRIPTION:

The B-1B has been designated as the "backbone" of the conventional bomber force. National Security will increasingly depend on conventional bombers to meet the demands of responding rapidly to security threats from various regions around the world. The B-1B is the weapon system to meet the challenge of these threats. Funding will support Interim Contractor Support (ICS) repair until organic capability can be established. Organic repair capability is projected to be completed in FY 2000.

FY 98 PROGRAM JUSTIFICATION:

Interim Contractor Support (ICS) provides for both Intermediate and Depot Level Repair services for the B-1B weapon system. Interim Contractor Support services include data management, contractor operated storage sites, packaging, handling, transportation and material control systems for items requiring repair. Types of items repaired on ICS include: gearbox assemblies, manifold assemblies, vertical indicators, auxiliary power units and power drive units.

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AIRCRAFT COST ANALYSIS EXHIBIT P-5 (Dollars in Millions)	A. Appn/Budget Activity Title/No.		B. Popular Name B-1B		C. Manufacturer Rockwell Int'l		D. Date FY00 PB Feb-99	
	FY98 Unit Cost	QTY Total Cost	FY99 Unit Cost	QTY 0 Total Cost	FY00 Unit Cost	QTY 0 Total Cost	FY01 Unit Cost	QTY 0 Total Cost
AIRFRAME/CFE		0.0		0.0		0.0		0.0
ENGINE/ACCESSORIES								
Eng Model:								
AVIONICS								
ARMAMENT								
OTHER GFE								
ECO (All Flyaway Components)								
NON-RECURRING COSTS								
OTHER COSTS								
Subtotal FLYAWAY COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AIRFRAME PGSE (Deferred Logistics)								
ENGINE PGSE								
AVIONICS PGSE								
PECULIAR TRAINING EQUIPMENT								
PUBLICATIONS/TECH. DATA								
ECO (ALL SUPPORT ITEMS)								
OTHER (ICS)		10.7		0.0		0.0		0
Program Management Administration (PMA)						0.0		0.0
Subtotal SUPPORT COST		10.7		0.0		0.0		0.0
GROSS P-1 COST		10.7		0.0		0.0		0.0
20 LESS: Prior Yr Adv. Proc		0.0		0.0		0.0		0.0
21 NET P-1 COST		10.7		0.0		0.0		0.0

EXHIBIT P-5

FY00 PB BUDGET ITEM JUSTIFICATION SHEET							DATE: Feb-99			
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT/BA01, COMBAT AIRCRAFT (BA07 FOR FY99/OUT)							P-1 ITEM NOMENCLATURE B-2			
	FY98/PRIOR	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	TOTAL
QUANTITY	21	0	0	0	0	0	0	0	0	21
COST (TY\$ IN MILLIONS)	17600.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17600.5
<p>Mission and Description: The B-2 is an all-wing, two-crew aircraft with provisions for a third crew member and has twin weapons bays of over 20,000 pounds capacity each. It is powered by four F118-GE-100 turbofan engines. The low wing loading provides efficient cruise and good airfield performance. The B-2 bomber exploits breakthroughs in low observables technology (radar, infrared, visual, electromagnetic, and acoustic) to achieve vehicle signatures that allows penetration of current and postulated enemy air defenses. The B-2 has the capability to perform worldwide conventional and nuclear delivery missions consistent with Air Combat Command requirements. Survivability is enhanced by reduction of observable signatures and complementary defense management system. The B-2 employs a low altitude terrain following capability and a penetration speed commensurate with high probability of survival without unduly penalizing mission range. The management and acquisition strategy provides the user a capability for the lowest possible cost.</p>										
							P-1 SHOPPING LIST ITEM NO.	PAGE NO.	Exhibit P-40 Page 1 of 1	

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FY00 PB	A. Appropriation/Budget Activity Title/No. Aircraft Procurement Combat Aircraft, BA01		B. Weapon Model/Series/ Popular Name B-2 Advanced Technology Bomber FY98 & Prior ONLY			C. Manufacturer Name Plant City/State location Northrop Grumman B-2 Div Pico Rivera, CA		D. Date Feb-99	
Weapon System Cost Elements	Ident. Code	FY98 Unit Cost	QTY 0 Tot. Cost	FY99 Unit Cost	Qty 0 Tot. Cost	FY00 Unit Cost	Qty 0 Tot. Cost	FY01 Unit Cost	Qty 0 Tot. Cost
Airframes/CFE	A	NA	8.0	NA	0.0	NA	0.0	NA	0.0
A/V 1 UPGRADE		NA	0.0	NA	0.0	NA	0.0	NA	0.0
UPGRADES**			9.3		0.0	NA	0.0	NA	0.0
ENGINE/ACCESSORIES (Eng Model) F118-GE-100	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
AVIONICS									
A. CFE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
WEAPON DELIVERY SYSTEM	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
OTHER GFE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
ECO (All Flyaway Components)		NA	2.0	NA	0.0	NA	0.0	NA	0.0
NON-RECURRING COSTS									
(Tooling)		NA	0.0	NA	0.0	NA	0.0	NA	0.0
(Other)		NA	10.6	NA	0.0	NA	0.0	NA	0.0
Subtotal FLYAWAY COST			29.9	NA	0.0	NA	0.0	NA	0.0
AIRFRAME PGSE	A	NA	34.7	NA	0.0	NA	0.0	NA	0.0
ENGINE PGSE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
PECULIAR TRAINING EQUIPMENT	A	NA	0.1	NA	0.0	NA	0.0	NA	0.0
PUBLICATIONS/TECH. DATA	A	NA	13.4	NA	0.0	NA	0.0	NA	0.0
ICS	A	NA	10.4	NA	0.0	NA	0.0	NA	0.0
S/W INVESTMENT	A	NA	74.9	NA	0.0	NA	0.0	NA	0.0
PROG. MGMT. ADM. RQMTS (PMAR)		NA	5.6	NA	0.0	NA	0.0	NA	0.0
OTHER	A	NA	6.7	NA	0.0	NA	0.0	NA	0.0
Subtotal SUPPORT COST		NA	145.8	NA	0.0	NA	0.0	NA	0.0
GROSS P-1 END COST		NA	175.7	NA	0.0	NA	0.0	NA	0.0
LESS: PRIOR YR ADV. PROC			0.0		0.0		0.0		0.0
NET P-1 FULL FUNDING COST (BP10) (BP13 in FY99/OUT)		NA	175.7	NA	0.0	NA	0.0	NA	0.0
Plus Current Year ADV, PROC.			0.0		0.0		0.0		0.0
Other Non P-1 Weapon System Costs									
Spares (Initial & MRSP)(BP16)	A	NA	12.9	NA	0.0	NA	0.0	NA	0.0
Mods (BP11)	A	NA	50.2	NA	0.0	NA	0.0	NA	0.0
Indust Base Preserv (BP 14BCAP)	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
Facilities (BP14; PE 78011F))	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
TOTAL		NA	238.8	NA	0.0	NA	0.0	NA	0.0

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FY00 PB Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems											
Weapon System: B-2			Date: Feb-99		PE 11127F 64240F						
BA01 FY98 and Prior ONLY	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total
A. General Program Data											
Procurement Qty											
Cum Oper Invent (w/ EMD Refurb)	13	16	17	21	21	21	21	21	21	0	21
No. of Operating Units											
OPTEMPO											
(Flying Hrs or Miles per month)	6716.7	2918.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119220.0	128854.7
Readiness Objective											
Intermediate Level											
Stand-Up date											
Depot Level Stand-Up Date											
B. Acquisition Logistics Resources											
Initial Spares	910.1	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	922.8
MRSP	73.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	73.7
Field Level Common Spt Equip											
Proc	14.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1
Field Level Peculiar Spt Equip											
RDT&E	539.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	546.6
Proc	309.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310.7
Depot Level Support Equip/Software											
RDT&E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Proc - Equip	321.5	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	355.2
Proc - Software Investment	353.5	74.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	428.4
PDM Plan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Technical Data/Manuals											
RDT&E	295.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	296.8
Proc	326.5	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.9
Training Services and Training Equip											
RDT&E	886.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	886.8
Proc	503.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	503.7
			P-1 SHOPPING LIST		PAGE NO.						
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FY00 PB Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems											
Weapon System: B-2			Date: Feb-99		PE 11127F 64240F						
BA01 FY98 and Prior ONLY	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total
C. Operations and Support											
Manpower (Nos.)											
Military											
Officer*		219	0	0	0	0	0	0	0		
Enlisted*		1381	0	0	0	0	0	0	0		
Civilian		31	0	0	0	0	0	0	0		
Cost (\$)											
Fuel*	11.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	296.3	313.6
Consumables (3400)	64.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	486.3	555.6
Reparables (3400)	17.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1541.8	1572.1
Sustaining Eng Spt (3400)	107.9	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1328.6	1470.5
Interim Contractor Spt (3010)	185.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	196.1
			P-1 SHOPPING LIST		PAGE NO.						
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FY00 PB								SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)				DATE		Feb-99
APPROPRIATION/P-1 Line Item: Aircraft Procurement, Combat Aircraft, BA01 FY98 & Prior ONLY				Weapon System: B-2		Equipment Nomenclature: Aircrew & Maintenance Trainers		PE				11127F & 64240F		
Fin Plan	FY97/Prior	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total			
Quantity	59											59		
Proc	503.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	503.7		
RDT&E	886.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	562.7		
O&S	36.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8		

Training System Description

The Training System consists of training equipment hardware, software, and courseware, training missions and classroom academic materials. The maintenance training began in May 1993. Aircrew training began in Jan 94. The maintenance trainers consist of the Computer Maintenance Training System, Weapon System Training Aid, and the Crew Escape System Maintenance Trainer. The Cockpit Procedures Trainer, Weapon System Trainer, and the Mission Trainer are aircrew trainers and the Weapon Loading Trainer is an armament loading trainer. The Training Support Center, System Support Center and Training Library are support devices for the above listed trainers. FY99 and FY00 procurement funds are for Post-Block 30 correction of deficiencies, flight performance updates and concurrency changes. Included is Non-recurring effort for engineering changes, testing and hardware/software integration.

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FY00 PB SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)											DATE			
APPROPRIATION/P-1 Line Item: Aircraft Procurement, Combat Aircraft, BA01 FY98 & Prior ONLY			Weapon System: B-2		IOC Initial RFT: DEC 93		Equipment Nomenclature: Aircrew & Maint Trainers		PE 11127F & 64240F					
TRAINING DEVICE BY TYPE	SITE	DELIVERY DATE	READY FOR TRAINING DATE	AVG STUDENT THROUGHPUT	PRIOR YEARS		FY98		FY99		FY00		FY01	
					QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
MAINTENANCE	WAFB, MO	APR 93	MAY 93	575	54	186.7		0.0		0.0		0.0		0.0
AIRCREW	WAFB, MO				5	316.9		0.1		0.0		0.0		0.0
BLOCK 10	"	SEP 93	JAN 94			78.5								
BLOCK 20	"	FEB 96	MAY 96			139.5								
BLOCK 30	"	MAY 97	JUL 97			98.9		0.1		0.0		0.0		0.0
TOTAL					59	503.6		0.1		0.0		0.0		0.0
P-1 SHOPPING LIST ITEM NO.					PAGE NO.			Exhibit P-43 Page 2 of 4						

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FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)	DATE	Feb-99
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Training Device by Type: AIRCREW TRAINERS BA 01 FY98 and Prior ONLY	Weapon System: B-2
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Description/Justification:
 Contains 3 Weapon System Trainers (WST) and 2 Mission Trainers (MT) needed to conduct aircrew training of the B-2.
 Also contains funding for block updates to maintain concurrency with the air vehicle.

FINANCIAL PLAN	Prior Years		FY98		FY99		FY00		FY01		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device	5	252.5									5	252.5
ECO		6.0										6.0
Nonrecurring		26.8		0.1		0.0		0.0		0.0		26.9
GFE												
Other (Fee)		<u>24.6</u>		<u>0.0</u>								<u>24.6</u>
Total Hardware Costs		309.9		0.1		0.0		0.0		0.0		310.0
SUPPORT COSTS												
Special SE												
ILS		7.0										7.0
Other												
Total Support Costs		7.0										7.0
Software/Courseware												
TOTAL COSTS		316.9		0.1		0.0		0.0		0.0		317.0

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FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)	DATE	Feb-99
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Training Device by Type: MAINTENANCE TRAINERS BA 01 FY98 and Prior ONLY	Weapon System: B-2
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Description/Justification:
Contains all necessary equipment for maintenance training equipment as well as future block updates to maintain concurrency with the air vehicle.

FINANCIAL PLAN	Prior Years		FY98		FY99		FY00		FY01		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device	54	142.0		0.0		0.0		0.0		0.0	54	142.0
ECO												
Nonrecurring												
GFE												
Other (Fee)												
Total Hardware Costs		142.0		0.0		0.0		0.0		0.0		142.0
SUPPORT COSTS												
Special SE												
ILS		30.6										30.6
Other												
Total Support Costs		30.6										30.6
Software/Courseware		14.1		0.0		0.0		0.0		0.0		14.1
TOTAL COSTS		186.7		0.0		0.0		0.0		0.0		186.7

	P-1 SHOPPING LIST ITEM NO.	PAGE NO.	Exhibit P-43 Page 4 of 4
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Exhibit P-40, Budget Item Justification								Date: Feb-99					
Appropriation/Budget Activity Aircraft Procurement/BA01, Combat Aircraft								P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter					
	Prior Years	ID Code	Prior Years	PY FY 1998	CY FY 1999	BY1 FY 2000	BY2 FY 2001	BY2+1 FY 2002	BY2+2 FY 2003	BY2+3 FY 2004	BY2+4 FY 2005	To Comp	Total
Qty	N/A	A	N/A	0	2	6	10	16	24	36	36	209	339
Cost (in Millions)	N/A		N/A	0.0	579.4	1,575.0	2,147.8	2,629.4	3,323.2	3,710.0	3,312.6	17,762.7	35,040.1
Initial Spares (in Millions)	N/A		N/A	0.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6
Total (in Millions)	N/A		N/A	0.0	605.0	1,575.0	2,147.8	2,629.4	3,323.2	3,710.0	3,312.6	17,762.7	35,065.7
Unit Cost (in Millions)	N/A		N/A	0.0	302.5	262.5	214.8	164.3	138.5	103.1	92.0	85.0	103.4

Mission and Description:

The F-22 program is developing the next generation multi-mission air superiority fighter for introduction in the early 2000's to counter emerging worldwide threats. The F-22 is designed to penetrate enemy airspace and achieve a first look, first-kill capability against multiple targets. The F-22 is characterized by a low-observable, highly maneuverable airframe, advanced integrated avionics, and a new engine capable of supersonic cruise without the use of afterburner. A total of 339 F-22 aircraft will be produced.

FY00 Program Justification:

Procures six Low Rate Initial Production (LRIP) aircraft (Lot 1), initial spares support, and associated support.

FY01 Program Justification:

Procures ten LRIP aircraft (Lot 2), initial spares support, and associated support.

Note: The F-22 program intends to award a single overarching contract for all initial operational support as part of the Reengineered Supply Support Pilot Program (RSSP), similar to the previously approved Flexible Sustainment concept for the C-17. The single contract will incorporate all supply support requirements, including all spare parts support, into a single cost per flying hour charge to be funded initially within Budget Program (BP) 10. The contractor will provide all spare parts as a service under this contract to achieve an agreed to mission capability rate. To partially fund this "spares as a service" concept, referred to as Interim Supply Support (ISS), the funding previously identified for initial spares beginning in FY 2000 has been transferred in total to the weapon system procurement line. Following the implementation of this support concept, the first contract will be awarded in FY 2000, the amount of initial spares will not be separately priced or provided to the Air Force.

Exhibit P-40

Exhibit P-5 Cost Analysis		Weapon System F-22 Advanced Tactical Fighter				Date: Feb-99						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number Aircraft Procurement/AF/BA01 Combat Aircraft			ID Code A		P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter							
WBS COST ELEMENTS (Tailor to System/Item Rqmts)	ID Code	PYs Total Cost	FY97		FY98		FY99		FY00		FY01	
			Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Quantity							2		6		10	
Airframes/CFE							195.9	391.8	158.2	949.3	132.5	1,325.3
Engine/Accessories (shipset)							33.5	67.0	26.3	157.8	21.9	219.2
Avionics (shipset)							57.4	114.7	60.5	362.7	40.9	409.2
Armament												
Nonrecurring Costs							30.1	60.1	14.1	84.3	17.7	177.4
Subtotal Flyaway		0	0	0	0	0	316.9	633.7	259.0	1,554.2	213.1	2,131.1
Air Vehicle Support								1.6		29.4		174.3
Engine Support								4.0		20.8		96.3
Avionics Support												
Interim Supply Support (ISS)*										127.9		**
Peculiar Training Equipment												
Publications/Tech Data												
ECO												
Other								11.6		34.0		24.7
Program Management Admin												
Subtotal Support Costs		0	0	0	0	0		17.2		212.1		295.4
Gross P-1 Cost								650.9		1,766.3		2,426.5
Less: Prior Year Adv Proc								71.5		191.2		278.8
Net P-1 Cost								579.4		1,575.1		2,147.8

NOTE: Totals may not add due to rounding

* ISS is designed to use best commercial practices to provide initial spares support for both the airframe and engines, to the government

** FY01 ISS will be submitted with the FY01 President's Budget Submission

EXHIBIT P-5

Exhibit P-5a, Procurement History and Planning					Weapon System F-22 Advanced Tactical Fighter			Date: Feb-99		
Appropriation/Budget Activity Aircraft Procurement, AF/BA01 Combat Aircraft						P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter				
COST ELEMENTS/ FISCAL YEARS	Contractor and Location	Contract Method and Type	Contracted by	Award Date	Date of First Delivery	Quantity	Unit Cost (3)	Specs Avail Now?	Specs REV Req'd	If yes, when Avail
AIR VEHICLE (1)										
FY99 (Adv Proc - Jun 98)	Lockheed Martin	FFP	ASC/YF	Dec-98	Nov-01	2	253.3	N/A		
FY00 (Adv Proc - Dec 98)	Lockheed Martin	FFP	ASC/YF	Dec-99	Mar-02	6	218.7	N/A		
FY01 (Adv Proc - Dec 99)	Lockheed Martin	FPI	ASC/YF	Dec-00	Feb-03	10	173.4	N/A		
PROPULSION (2)										
FY99 (Adv Proc - Jun 98)	Pratt & Whitney	FFP	ASC/YF	Dec-98	Jan-01	4	16.7	N/A		
FY00 (Adv Proc - Dec 98)	Pratt & Whitney	FFP	ASC/YF	Dec-99	Sep-01	12	13.2	N/A		
FY01 (Adv Proc - Dec 99)	Pratt & Whitney	FPI	ASC/YF	Dec-00	May-02	20	11.0	N/A		

(1) Air Vehicle unit cost includes costs of Airframe/CFE and Avionics (shipset) WBS elements reflected in the P-5.

(2) Propulsion unit cost differs from the P-5, as the P-5 uses aircraft qty to compute unit cost; the P-5A uses engine qty (two engines per aircraft).

(3) Unit costs do not include non-recurring costs.

Exhibit P-21, Production Schedule																				Date: Feb-99										
Appropriation (Treas) Code/CC/BA/BSA/Item Control No 3010/10F022										Weapon System F-22 ATF					P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter															
Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure																			
		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder MFG PLT	Total																					
	Lockheed Martin Corp Marietta, GA 30063-0000	TBD	TBD	TBD	N/A	TBD	41*	N/A	TBD	month*																				
Description: *Initial Mfg PLT reflects Advance Procurement. It is the number of months from Production Representative Test Vehicle (PRTV) long-lead contract award (Jun 98) until the delivery of first PRTV aircraft (Nov 01).																														
Fiscal Year 98										Fiscal Year 99																				
ITEM	Calendar Year 98										Calendar Year 99																			
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A
F-22 ATF	99	F	2	0	2																									
	00	F	6	0	6																									
	01	F	10	0	10																									

Exhibit P-21, Production Schedule											Date: Feb-99																					
Appropriation (Treas) Code/CC/BA/BSA/Item Control No 3010/10F022						Weapon System F-22 ATF					P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter																					
		PRODUCTION RATE					PROCUREMENT LEADTIMES																									
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder MFG PLT	Total	Unit of Measure																		
	Lockheed Martin Corp Marietta, GA 30063-0000					TBD	TBD	TBD	N/A	TBD	41*	N/A	TBD	month*																		
Description: *Initial Mfg PLT reflects Advance Procurement. It is the number of months from PRTV long-lead contract award (Jun 98) until the delivery of first PRTV aircraft (Nov 01).																																
Fiscal Year 02														Fiscal Year 03																		
Calendar Year 02														Calendar Year 03																		
ITEM	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A		
	C	Y	L	L	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	L			
F-22 ATF	99	F	2	0	2		1		1																					0		
	00	F	6	0	6					1		1		1		1	1		1											0		
	01	F	10	0	10																	1	1	1	1	1	1	1	1	2		
Fiscal Year 04																																
Calendar Year 04																																
ITEM	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	B														
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	A														
	C	Y	L	L	T	V	C	N	B	R	R	Y	N	L	G	P	L															
F-22 ATF	01	F	10	8	2	2												0														

Exhibit P-40, Budget Item Justification								Date: Feb-99					
Appropriation/Budget Activity Aircraft Procurement, AF (Advance Procurement)/BA01, Combat Aircraft								P-1 Line Item Nomenclature F-22 Advanced Tactical Fighter					
	Prior Years	ID Code	Prior Years	PY FY 1998	CY FY 1999	BY1 FY 2000	BY2 FY 2001	BY2+1 FY 2002	BY2+2 FY 2003	BY2+3 FY 2004	BY2+4 FY 2005	To Comp	Total
Qty	N/A												
Cost (in Millions)	N/A		7.5	73.3	189.7	277.1	396.2	379.2	985.6	251.9	246.0	1,493.3	4,299.8

Mission and Description:

The F-22 program is developing the next generation multi-mission air superiority fighter for introduction in the early 2000's to counter emerging worldwide threats. The F-22 is designed to penetrate enemy airspace and achieve a first look, first-kill capability against multiple targets. The F-22 is characterized by a low-observable, highly maneuverable airframe, advanced integrated avionics, and a new engine capable of supersonic cruise without the use of afterburner. A total of 339 F-22 aircraft will be produced.

FY00 Program Justification:

FY00 Advance Procurement supports FY01 buy of ten aircraft: Procures long-lead hardware for ten Lot 2 (FY01 procurement) Low Rate Initial Production (LRIP) aircraft and Diminishing Manufacturing Sources (DMS) parts requirement.

FY01 Program Justification:

FY01 Advance Procurement supports FY02 buy of 16 aircraft: Procures long-lead hardware for 16 Lot 2 (FY02 procurement) LRIP aircraft and DMS parts requirements.

Exhibit P-10, Advance Procurement Requirements Analysis (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, Dollars In Millions)				Budget Year For Fiscal Year Program FY99 for FY00 Date: Feb-99		
Weapon system Type (Model/Series No.) F-22 Advanced Tactical Fighter		First System Award Date Dec-98	First System Completion Date Mar-02	Interval Between Systems (Months) 1-2		
(TOA, \$ in Millions)						
Advance Procurement/Advance Funding Items	Quantity	Date Contract Awd Planned/Required	Delivery Date of First Equip Req'd/Actual Cost	Production Lead Time In Months Total Req'd (Adm/Prod) Actual	Unit cost (\$M)	Total Cost (\$M)
DMS* Parts and Redesign for Air Vehicle	N/A	Dec-98	Mar-02	39 months	N/A	20.5
CFE for Air Vehicle	6	Dec-98	Mar-02	39 months	28.0	168.0
CFE for Engines	6	Dec-98	Jun-01	30 months	0.2	1.2
Total Advance Procurement						189.7
Description: *DMS is abbreviation for Diminishing Manufacturing Sources. First System Award Date reflects contract award for Lot 1 advance procurement. Interval Between System reflects the time between end item deliveries.						

Exhibit P-10

Exhibit P-10, Advance Procurement Requirements Analysis (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, Dollars In Millions)	Budget Year For Fiscal Year Program FY00 for FY01
	Date: Feb-99

Weapon system Type (Model/Series No.) F-22 Advanced Tactical Fighter	First System Award Date Dec-99	First System Completion Date Feb-03	Interval Between Systems (Months) 1-2
---	-----------------------------------	--	--

(TOA, \$ in Millions)						
Advance Procurement/Advance Funding Items	Quantity	Date Contract Awd Planned/Required	Delivery Date of First Equip Req'd/Actual Cost	Production Lead Time In Months Total Req'd (Adm/Prod) Actual	Unit cost (\$M)	Total Cost (\$M)
DMS Parts and Redesign for Air Vehicle*	N/A	Dec-99	Feb-03	38 months	N/A	37.4
CFE for Air Vehicle	10	Dec-99	Feb-03	38 months	23.8	238
CFE for Engines	10	Dec-99	May-02	29 months	0.2	1.7
Total Advance Procurement						277.1

Description:

*DMS is abbreviation for Diminishing Manufacturing Sources.

First System Award Date reflects contract award for Lot 2 advance procurement.

Interval Between System reflects the time between end item deliveries.

Exhibit P-10, Advance Procurement Requirements Analysis (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, Dollars In Millions)					Budget Year For Fiscal Year Program FY01 for FY02	
					Date: Feb-99	
Weapon system Type (Model/Series No.)		First System Award Date	First System Completion Date	Interval Between Systems		
F-22 Advanced Tactical Fighter		Dec-00	Feb-03	(Months) 1-2		
(TOA, \$ in Millions)						
Advance Procurement/Advance Funding	Quantity	Date Contract Awd Planned/Required	Delivery Date of First Equip Req'd/Actual Cost	Production Lead Time In Months Total Req'd (Adm/Prod) Actual	Unit cost (\$M)	Total Cost (\$M)
Items						
DMS Parts and Redesign for Air Vehicle*	NA	Dec-00	Nov-03	35 months	n/a	73.8
CFE for Air Vehicle	16	Dec-00	Nov-03	35 months	20.0	319.5
CFE for Engines	16	Dec-00	Mar-03	27 months	0.2	2.9
Total Advance Procurement						396.2
Description:						
*DMS is abbreviation for Diminishing Manufacturing Sources.						
First System Award Date reflects contract award for Lot 3 advance procurement.						
Interval Between System reflects the time between end item deliveries.						

Exhibit P-10

BUDGET ITEM JUSTIFICATION SHEET					DATE				
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE				
Aircraft Procurement, AF/BA01, Combat Aircraft					F-15E Tactical Fighter				
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	
QUANTITY	5	0	0	0	0	0	0	0	
COST (in Millions)	214.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MISSION & DESCRIPTION:									
<p>The F-15E (dual role fighter) retains the basic air-to-air capability of the F-15A-D tactical fighter and adds the system necessary to meet the urgent requirement for all weather deep penetration and night/under-the-weather air-to-air surface attack. It is a two seat aircraft configured with missionized cockpit, low altitude navigation, targeting, and infrared for night (LANTIRN) capability; automatic terrain following/terrain avoidance; and other improvements necessary to fulfill the deep penetration and night-under-the-weather air-to-air surface attack mission. Configured with conformal fuel tanks (CFTs), the F-15E can deploy worldwide with minimal tanker support and arrive combat ready.</p>									
FY00 PROGRAM JUSTIFICATION:									
Last year of F-15E aircraft procurement was in FY98.									

AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model/Budget Activity Title/ No.		B. Weapon Model/Series Popular Name		C. Manufacturer		D. Date	
	3010/10328A AF/BA01 Combat Aircraft FY00 President's Budget Request		F-15E Tactical Fighter		BOEING		Feb-99	
	FY98		FY99		FY00		FY01	
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
QUANTITY		5		0		0		0
1. AIRFRAME/CFE (includes sustaining)	35.3	176.4	0.0	0.0	0.0	0.0	0.0	0.0
2. ENGINE/ACCESSORIES	8.6	43.1	0.0	0.0	0.0	0.0	0.0	0.0
3. AVIONICS: GFE ALQ-135	2.5	12.7	0.0	0.0	0.0	0.0	0.0	0.0
4. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. LANTIRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. OTHER COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. NONRECURRING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. ECO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. TOTAL FLYAWAY COSTS	46.4	232.2	0.0	0.0	0.0	0.0	0.0	0.0
11. AIRFRAME PGSE		0.0		0.0		0.0		0.0
12. PUBLICATIONS/TECH. DATA		0.0		0.0		0.0		0.0
13. ALLSUPPORT ITEMS (Initial spares)		0.0		0.0		0.0		0.0
14. OTHER		0.7		0.0		0.0		0.0
15. OTHER (ICS)		0.0		0.0		0.0		0.0
16. OTHER (Plant Shutdown)		0.0		0.0		0.0		0.0
17. MISC (SEE FOOTNOTES)		0.0		0.0		0.0		0.0
18. POST PRODUCTION SUPPORT		0.0		0.0		0.0		0.0
19. TOTAL SUPPORT COST	0.0	0.7	0.0	0.0	0.0	0.0		0.0
20. ADVANCE BUY		0.0		0.0		0.0		0.0
20. GROSS P-1 COST		232.9		0.0		0.0		0.0
21. LESS: PRIOR YR ADV. PROC.		-18.9		0.0		0.0		0.0
22. NET P-1 COST		214.0		0.0		0.0		0.0

Last year of F-15E aircraft procurement was in FY98.

PROCUREMENT HISTORY AND PLANNING

A. DATE: FEB 99

B. APPROPRIATION/BUDGET ACTIVITY

AIRCRAFT PROCUREMENT/BA01, COMBAT AIRCRAFT

C. P-1 ITEM NOMENCLATURE

F-15E Tactical Fighter

LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIR VEHICLE										
FY98	Boeing	FFP	ASC/VFK	Nov-97	Nov-99	5	35.3	YES		
FY99	-	-	-	-	-	-	-	-		
FY00	-	-	-	-	-	-	-	-		
FY01	-	-	-	-	-	-	-	-		
PROPULSION										
FY98	Pratt & Whitney	C/OPTION	ASC/LPK	Feb-98	Apr-99	10	8.6	YES		
FY99	-	-	-	-	-	-	-	-		
FY00	-	-	-	-	-	-	-	-		
FY01	-	-	-	-	-	-	-	-		
ALQ-135										
FY98	Northrup-Grumman	FFP	ASC/VFK	Dec-97	-	5	1.7	YES		
FY99	-	-	-	-	-	-	-	-		
FY00	-	-	-	-	-	-	-	-		
FY01	-	-	-	-	-	-	-	-		

P-1 Shopping List

EXHIBIT P-5A

BUDGET ITEM JUSTIFICATION SHEET											DATE: Feb-99	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE						
Aircraft Procurement, AF/BA01, Combat Aircraft						F-16						
	PRIOR YEARS	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	TO COMPLETE	TOTAL PROGRAM
QUANTITY	2,207	6	3	1	10	0	10	10	0	0	0	2,247
COST (MILLIONS)	32,406.1	146.0	79.0	29.9	252.6	0.0	266.5	270.5	0.0	0.0	0.0	33,450.6
INITIAL SPARES	2,846.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,846.3
TOTAL (MILLIONS)	35,252.4	146.0	79.0	29.9	252.6	0.0	266.5	270.5	0.0	0.0	0.0	36,296.9
UNIT COST (MILLIONS)	16.0	24.3	26.3	29.9	25.3	0.0	26.7	27.0	0.0	0.0	0.0	16.2
<p>MISSION AND DESCRIPTION: The F-16 Multi-mission Fighter is a single-seat, fixed-wing, high performance, single-engine fighter aircraft. The design, optimized for the 0.8 Mach range, incorporated advanced technology features to enhance its combat capability while minimizing its acquisition, operating, and support costs. The advanced technology features include a high visibility, high "g" cockpit. The F-16 armament consists of a 20mm cannon, air-to-surface and air-to-air missiles, and approximately 11,000 pounds of conventional and guided air-to-surface ordnance. The F-16 replaced the F-4s in the active inventory as well as modernized the reserve forces.</p> <p>FY00 PROGRAM JUSTIFICATION: Procures ten F-16 Block 50 aircraft, initial spares, 11 spare engines, and associated support equipment.</p> <p>FY01 PROGRAM JUSTIFICATION: N/A</p>												

Weapon System Cost Analysis EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Popular Name		C. Manufacturer Name/Location		D. Date	
(Dollars in Millions)	Aircraft Procurement, AF/ BA01 Combat Aircraft		F-16 Fighting Falcon		Lockheed-Martin Tactical Sys Co Ft. Worth, TX		Feb-99	
Weapon System Cost Elements	FY98		FY99		FY00		FY01	
	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost
QUANTITY		3		1		10		0
1. AIRFRAME/CFE	12.8	38.4	11.9	11.9	13.0	130.0	0.0	0.0
2. ENGINE/ACCESSORIES (MODEL F-100;F110)	4.6	13.8	4.4	4.4	5.0	50.0	0.0	0.0
3. AVIONICS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CFE	0.8	2.5	1.5	1.5	1.0	10.0	0.0	0.0
GFE	0.8	2.4	1.5	1.5	1.0	10.0	0.0	0.0
4. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. OTHER GFE	3.4	10.2	2.8	2.8	3.5	35.0	0.0	0.0
6. ECO	1.6	4.8	4.3	4.3	0.5	5.0	0.0	0.0
7. NON-RECURRING	2.3	6.9	3.5	3.5	1.3	12.6	0.0	0.0
8. OTHER COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. FLYAWAY COSTS	26.3	79.0	29.9	29.9	25.3	252.6	0.0	0.0
10. AIRFRAME PGSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. ENGINE PGSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. AVIONICS PGSE	0.0	19.9	0.0	14.5	0.0	14.0	0.0	13.3
13. PEC TRAINING EQUIP	0.0	4.0	0.0	6.4	0.0	4.4	0.0	4.5
14. PUBS/TECH DATA	0.0	5.1	0.0	5.4	0.0	1.8	0.0	1.8
15. ECO(SUPPORT ITEMS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. OTHER (CFTs)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
17. ICS	0.0	7.4	0.0	6.7	0.0	1.6	0.0	2.4
18. ICSE	0.0	0.3	0.0	3.6	0.0	7.4	0.0	1.8
19. SUPPORT COST	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8
20. GROSS P-1 COST	26.3	115.8	29.9	67.0	25.3	281.8	0.0	23.8
21. LESS: PRIOR YR ADV PROCUREMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22. NET P-1 COST	26.3	115.8	29.9	67.0	25.3	281.8	0.0	23.8
23. ADVANCE PROCUREMENT, CURRENT YEAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24. TOTAL (THEN YEAR)	26.3	115.8	29.9	67.0	25.3	281.8	0.0	23.8
TOTAL	26.3	115.8	29.9	67.0	25.3	281.8	0.0	23.8

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					A. DATE: Feb-99					
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
Aircraft Procurement, AF/BA01, Combat Aircraft			F-16							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost (\$M)	Specs Available Now	Specs Rev Req'd	If Yes, when Available
<u>AIRFRAME</u>										
FY98	Lockheed-Martin Ft Worth TX	FFP	ASC/YP	Mar-98	Jan-01	3	12.1	Yes	No	
FY99	Lockheed-Martin Ft Worth TX	FFP	ASC/YP	Dec-98	May-01	1	11.9	Yes	No	
FY00	Lockheed-Martin Ft Worth TX	FFP	ASC/YP	TBD	TBD	10	13.0	Yes	No	
FY01	N/A	-	-	-	-	-	-	-	-	
<u>PROPULSION</u>										
FY98	General Electric Evandale OH	SS/FP	ASC/LP	Mar-98	Mar-99	3	5.4	Yes	No	
FY99	General Electric Evandale OH	SS/FP	ASC/LP	Dec-98	Jan-00	1	4.4	Yes	No	
FY00	General Electric Evandale OH	SS/FP	ASC/LP	TBD	TBD	10	5.0	Yes	No	
FY01	N/A	-	-	-	-	-	-	-	-	
D. REMARKS:										

FY00 PRESIDENT'S BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE:

F-16 AIRFRAME

DATE: Feb-99

ITEM/MANUFACTURER/ PROCUREMENT YEAR	S E R V	PROC. QTY	ACCEP PRIOR TO 1 OCT 1997	BAL DUE AS OF 1 OCT 1997	FISCAL YR 98												FISCAL YR 99												L A T E R				
					CALENDAR YR 98												CALENDAR YR 99																
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
USAF 1996 BUY	AF	6	0	6													1		1												1		1
USAF 1997 BUY	AF	6	0	6																												6	
USAF 1998 BUY	AF	3	0	3																												3	
Singapore	FMS	30	12	18						2	2	2	2	2	2	2	2														0		
Taiwan	FMS	150	45	105	5	5	4	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0		
Greece	FMS	40	14	26	2	2	2	2	2	2	2	2	2	2	2	2															0		
Egypt	FMS	21	0	21																											16		
Turkey	FMS	80	30	50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
KFP	FMS	100	34	66	2	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	8		

PRODUCTION RATES				RC HD D+	PROCUREMENT LEAD TIME				MFG TIME	TOTAL AFTER 1 OCT	REMARKS
MINIMUM	1-8-5	MAX	INIT		PRIOR 1 OCT	PRIOR 1 OCT	MFG TIME	TOTAL AFTER 1 OCT			
LOCKHEED-MARTIN TACTICAL SYSTEMS CO	4	9		27							
FORT WORTH, TX											
									32		

FY00 PRESIDENT'S BUDGET PRODUCTION SCHEDULE				P-1 ITEM NOMENCLATURE: F-16 AIRFRAME												DATE: Feb-99		L A T E R										
ITEM/MANUFACTURER/ PROCUREMENT YEAR	S E R V	PROC. QTY	ACCEP PRIOR TO 1 OCT 2003	BAL DUE AS OF 1 OCT 2003	FISCAL YR 04												FISCAL YR 05											
					CALENDAR YR 02						CALENDAR YR 03						CALENDAR YR 04											
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T		N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G
USAF 00 BUY	AF	10	10	0																							10	
USAF 02 BUY	AF	10	TBD	TBD																							TBD	
USAF 03 BUY	AF	10	TBD	TBD																							TBD	
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
MANUFACTURER'S NAME AND LOCATION			PRODUCTION RATES			RC	PROCUREMENT LEAD TIME				REMARKS																	
LOCKHEED-MARTIN TACTICAL SYSTEMS CO FORT WORTH, TX			MINIMUM	1-8-5	MAX	HD	ADMIN		MFG	TOTAL																		
			SUST.			D+	LEAD TIME																					
				4	9	27	PRIOR	PRIOR	TIME	AFTER																		
							1 OCT	1 OCT		1 OCT																		
							INIT																					
							RECORDER			32																		

P-1 SHOPPING LIST
ITEM NO.

PAGE OF PAGES
EXHIBIT P-21 Production Schedule

P-40 FOR PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET							DATE: FEB 99					
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT/BA02, AIRLIFT AIRCRAFT							P-1 ITEM NOMENCLATURE C-17 Airlift Aircraft					
			FY 97/P	FY 98	FY 99	FY 00	FY 01	FY02	FY03	FY04	FY 05	TOTAL
QUANTITY			48	9	13	15	15	15	5	0	0	120
QUANTITY (14 Add'l SOF Aircraft)									1	5	8	14
Prior Yr Credit			-1441.5	-211.2	-272.0	-302.6	-304.9	-307.8	-104.7	-107.5	-175.4	-3,227.6
Current Yr Debit			1652.7	272.0	302.6	304.9	307.8	104.7	107.5	175.4	0	3,227.6
EOQ investment is for the 80 aircraft in the MYP			XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	80
EOQ investment			300.0									300.0
EOQ payback			-30	-34.0	-49.0	-56.0	-56.0	-56.0	-19.0	0.0	0.0	-300.0
COST (\$M)			16108.6	2130.9	2891.0	3385.0	3368.5	3235.6	1915.0	1524.7	2306.2	36,865.5
Initial Spares (\$M)			608.0	128.2	112.0	0.0	0.0	0.0	0.0	0.0	0.0	848.2
Total Cost (in M)			16716.6	2259.1	3003.0	3385.0	3368.5	3235.6	1915.0	1524.7	2306.2	37,713.7
Unit Cost (in M)			348.3	251.0	231.0	225.7	224.6	215.7	319.2	304.9	288.3	281.4
MISSION AND DESCRIPTION:												
Develops and procures C-17 Airlift Aircraft which will provide an additional increment of needed airlift capability to meet both strategic (long range) and tactical (theater) requirements. Allows rapid and timely inter and intratheater deployment, employment, and resupply of combat forces to meet mobility requirements of theater CINCS. Provides intratheater outsize/airdrop capability not available now. Will provide force modernization and replace lost capability of retiring C-141 aircraft.												
FY00/01 PROGRAM JUSTIFICATION:												
Funding will provide for procurement of fifteen aircraft in FY 00 and in FY 01. This reflects the multi-year procurement acquisition contract for FY 97-03. This will be the second and third years of the new support contract, Flexible Sustainment, in which Boeing provides maintenance and material management through partnerships between industry and government depots. The above costs to the government include 3010 BP10 and BP16 through FY99. Initial spares are funded with BP10 after FY99. The totals do not include aircraft modifications funding, BP11.												
There is no advanced buy funding budgeted in FY02 for the 1 additional Special Operations Forces (SOF) aircraft buy in FY03.												

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FY00 PB	Appropriation/Budget Activity Title/No. 3010/10C17A		B. Weapon Model/Series/ Popular Name C-17A			C. Manufacturer Name Plant City/State location Boeing Airlift and Tankers Long Beach, CA			D. Date Feb 99			
	Weapon System Cost Elements		FY97 8		FY98 9		FY99 13		FY00 15		FY01 15	
	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost
1.0 AIRFRAME	200.0	1600.2	193.4	1740.2	174.1	2263.8	163.6	2453.3	163.7	2455.7		
2.0 ENGINE (MODEL F-117-PW-100)	19.1	152.7	19.7	177.7	19.8	257.2	20.6	308.3	21.3	319.6		
3.0 AVIONICS	8.0	63.7	7.5	67.9	7.0	90.9	6.9	102.8	7.3	108.8		
4.0 ECO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5.0 PRODUCT IMPROVEMENT	3.7	29.6	1.8	16.1	1.2	16.0	3.0	44.9	3.9	58.0		
6.0 NON-RECURRING FLYAWAY	1.5	11.7	0.2	1.8	0.2	2.4	0.2	2.5	0.2	2.5		
7.0 SETTLEMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8.0 FLYAWAY COSTS	232.2	1857.9	222.6	2003.7	202.3	2630.3	194.1	2911.7	196.3	2944.6		
9.0 PECULIAR SUPPORT EQUIPMENT		1.5		12.6		12.1		14.1		0.0		
10.0 COMMON SUPPORT EQUIP		0.0		4.1		5.6		4.4		3.9		
11.0 TRAINING		60.4		26.2		33.1		58.4		31.5		
12.0 DATA		4.8		2.0		2.9		3.0		3.1		
13.0 ICS/ROR/FIELD SPT/DEPOT INV		37.7		3.9		0.0		0.0		1.1		
14.0 FLEX SUST (ICS/CLS/DEPOT INV)		135.5		33.5		208.6		432.1		423.4		
15.0 MISSION SUPPORT		18.3		18.0		16.9		15.0		14.0		
16.0 SUPPORT COST		258.2		100.4		279.2		527.0		477.1		
17.0 GROSS P-1 COST	232.2	2116.1	222.6	2104.1	202.3	2909.4	194.1	3438.7	196.3	3421.6		
17.0 LESS: Prior Year Adv Proc EOQ Payback		-221.8 -30.0		-211.2 -34.0		-272.0 -49.0		-302.6 -56.0		-304.9 -56.0		
18.0 NET P-1 COST	232.2	1864.3	222.6	1858.9	202.3	2588.4	194.1	3080.1	196.3	3060.7		
19.0 ADVANCE PROCUREMENT, CURRENT YEAR		211.2		272.0		302.6		304.9		307.8		
20.0 OTHER NON P-1 WEAPON SYS COSTS INITIAL SPARES		5.2		128.2		112.0		0.0		0.0		
21.0 TOTAL (THEN YEAR)	232.2	2080.7	222.6	2259.1	202.3	3003.0	194.1	3385.0	196.3	3368.5		

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

A. DATE Feb 99

B. Appropriation/Budget Activity AIRCRAFT PROCUREMENT/BAO2/AIRLIFT				C. P-1 Item Nomenclature C-17A						
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date First Delivery	Quantity	Unit Cost	Specs Available Now	Specs REV REQ'D	If Yes, when Available
AIR VEHICLE										
FY98	Boeing-Airlift & Tankers	FFP	AFMC/ASC	Dec-97	Apr-99	9	200.9			
FY99	Boeing-Airlift & Tankers	FFP	AFMC/ASC	Dec-98	Jun-00	13	181.1			
FY00	Boeing-Airlift & Tankers	FPIS	AFMC/ASC	Dec-99	Jul-01	15	170.4			
FY01	Boeing-Airlift & Tankers	FPIS	AFMC/ASC	Dec-00	Aug-02	15	171.0			
PROPULSION										
FY98	Pratt & Whitney	FFP	AFMC/ASC	Jan-98	Oct-98	9	19.7			
FY99	Pratt & Whitney	FFP	AFMC/ASC	Dec-98	Jul-99	13	19.8			
FY00	Pratt & Whitney	FFP	AFMC/ASC	Nov-99	Jul-00	15	20.6			
FY01	Pratt & Whitney	FFP	AFMC/ASC	Nov-00	Jul-01	15	21.3			

REMARKS:

- Engine Unit Cost are per shipset of 4 engines
- Air Vehicle unit cost is total of Air Vehicle, Avionics (CFE and GFE) unit costs
- Air Vehicle Multi-Year Procurement contract was awarded on 1 Jun 96. The award dates indicated above reflect contract modification dates to obligate funds for the aircraft in each fiscal year.
- Propulsion Multi-Year Procurement contract was awarded on 16 Dec 96. The award dates indicated above reflect contract modification dates to obligate funds for the aircraft in each fiscal year.

EXHIBIT P-5A Procurement History and Planning

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)										DATE	FEB 99
Appropriation/P-1 Line Item			Weapon System(If Applicable)			Equipment Nomenclature				PE	41130F
PROD 3010			C-17 TRAINERS (ATS & MTS)								
Fin Plan	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Total	
Quantity	7	0	1	1	1	0	0	0	0	10	
Proc	289000	26200	33100	58400	31500	18000	11500	17300	5000	490000	
RDT&E	0	0	0	0	0	0	0	0	0	0	
TRAINING SYSTEM DESCRIPTION											
ATS:											
Provides initial and continuous training for C-17 aircrew members. Training will be totally contractor administered and supported, with AMC evaluating the final product, a fully qualified member. The training system will be developed concurrently with the aircraft development and production. The Aircrew Training System (ATS) consists of:											
Weapon System Trainers (WSTs), Computer Based Trainers (CBTs), Loadmaster Stations (LSs), Cargo Compartment Trainers (CCTs) and Cockpit Systems Simulators (CCSs). The blend or mix of the components depend on the base or schoolhouse they are being delivered to. The bases are: Charleston AFB, Altus AFB , McChord AFB, and Jackson AFB.											
MTS:											
The system is designed to reduce the maintenance training level to the lower skill levels.											
The system will employ accessibility, repairability, and interchangeability features. Integration will be with the aircraft development and production.											
There is no funding for Trainers for the additional 14 Special Operations Forces (SOF) aircraft. The requirement is TBD.											
			P-1 Shopping List Item No.	Page No.	EXHIBIT P-43 Simulator & Training Device Justification						
				1							

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)										DATE:		FEB 99			
Appropriation/ P-1 Line Item		Weapon System		IOC Date Aircraft	Equipment Nomenclature			PE							
3010		C-17 Trainers		Jan-95	41130F										
Device Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY98		FY99		FY00		FY01		
					Qty	Cost	Qty	Cost	Qty	Cost			Qty	Cost	
MTD	Charleston AFB				1	30497									
ATS															
WST	Charleston AFB				1	36761					1	23300			
WST	Altus AFB				3	45206			1	22900					
WST	McChord AFB				2	35101									
WST	Jackson AFB												1	23600	
Concurrency and Software						141435		26200		10200		35100		7900	
				TOTAL	7	289000	0	26200	1	33100	1	58400	1	31500	
There is no funding for Trainers for the additional 14 Special Operations Forces (SOF) aircraft. The requirement is TBD.															
				P-1 Shopping List			Item No.		Page No.		EXHIBIT P-43				
							2								

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)								DATE: FEB 99						
Training Device by Type C-17 TRAINERS				Weapon System (If Applicable) ATS & MTS										
Description/Justification ATS: Provides initial and continuous training to C-17 aircrews. MTS: Upgrades the devices necessary to reduce the maintenance manning level and training to the lowest level.														
Financial Plan	Prior Years		FY98		FY99		FY00		FY01		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS														
Device (Hardware)	7	147565	0	0	1	22900	1	23300	1	23600	0	0	10	217365
Concurrency Updates		141435		26200		10200		35100		7900		51800		272635
Nonrecurrent GFE Other(Specify)														
Total Hardware Costs		289000		26200		33100		58400		31500		51800		490000
SUPPORT COSTS														
Special SE Integrated Logistics Supt. Other(Specify)														
Total Support Costs		0		0		0		0		0		0		0
TOTAL COSTS		289000		26200		33100		58400		31500		51800		490000
There is no funding for Trainers for the additional 14 Special Operations Forces (SOF) aircraft. The requirement is TBD.											EXHIBIT P-43			
P-1 Shopping List Item No.						Page No. 3								

P-40A FOR ADVANCE PROCUREMENT									
BUDGET ITEM JUSTIFICATION SHEET						DATE: FEB 99			
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT (ADVANCE BUY)/BA02, AIRLIFT AIRCRAFT						P-1 ITEM NOMENCLATURE C-17 Airlift Aircraft			
	PY	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	TO COMP	TOTAL
ADV BUY QUANTITY	48	9	13	15	15	15	5	0	120
QUANTITY (Add'l 14 SOF Aircraft)							1	13	14
Current Yr Debit	1652.7	272.0	302.6	304.9	307.8	104.7	107.5	175.4	3227.6
Total	1652.7	272.0	302.6	304.9	307.8	104.7	107.5	175.4	3227.6
<p>MISSION AND DESCRIPTION:</p> <p style="padding-left: 40px;">Develops and procures the C-17 Airlift Aircraft which provides an additional increment of needed airlift capability to meet both strategic (long range) and tactical (theater) requirements. Allows rapid and timely inter and intratheater deployment, employment, and resupply of combat forces to meet mobility requirements of theater CINCS. Provides intratheater outsize/airdrop capability not available now. Will provide force modernization and replace lost capability of retiring C-141 aircraft.</p> <p>FY01 PROGRAM JUSTIFICATION:</p> <p style="padding-left: 40px;">FY01 funding will provide for the advance procurement for the 15 aircraft procured in the FY02 lot buy.</p> <p>FY00 PROGRAM JUSTIFICATION:</p> <p style="padding-left: 40px;">FY00 funding will provide for the advance procurement for the 15 aircraft procured in the FY01 lot buy.</p> <p>There is no advanced buy funding budgeted in FY02 for the 1 additional Special Operations Forces (SOF) aircraft buy in FY03.</p>									

Weapon System Advance Procurement EXHIBIT P-10 (Procurement of Advance Design and Material) (TOA, Dollars in Thousands)				Current Year for Fiscal Year Program --FY98		
				DATE Feb 99		
Weapon System Type (Model/Series No.) C-17A	First System Award Date Jan-98	First System Completion Date Jun-00	Interval Between System Completions (Months)			
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Production Lead Time in Months(Adm/Prod)-Total	Unit Cost	Total Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. AIRCRAFT CFE	13	Dec-97	Jun-00			255.8
2. AIRCRAFT GFE						16.2
3. SUBTOTAL						272.0
5. TOTAL	13					272.0

- FY98 advanced buy procured 13 aircraft for FY99 (Lot XI).
- P58 is the first aircraft of this lot buy; the first scheduled delivery is Jun 00.
- Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs.
- Document provided to support the FY00 PB

Exhibit P-10 Weapon System Advance Procurement Analysis/Justification

Exhibit P-10 Advance Procurement Execution/Request Comparison

Weapon System Advance Procurement EXHIBIT P-10 (Procurement of Advance Design and Material)				Budget Year for Fiscal Year Program -- FY99		
				DATE Feb 99		
Weapon System Type (Model/Series No.) C-17A		First System Award Date Jan-99	First System Completion Date Jul-01		Interval Between System Completions (Months)	
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Production Lead Time in Months(Adm/Prod)-Total	Unit Cost	Total Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. AIRCRAFT CFE	15	Dec-98	Jul-01			276.9
2. AIRCRAFT GFE						25.7
3. SUBTOTAL						302.6
5. TOTAL	15					302.6
<ul style="list-style-type: none"> -- FY99 advanced buy will procure 15 aircraft in FY00 for Lot XII -- P71 is the first aircraft of this lot buy; the first scheduled delivery is Jul 01. -- Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs. -- Document provided to support the FY00 PB 						

Exhibit P-10 Weapon System Advance Procurement Analysis/Justification

Exhibit P-10 Advance Procurement Execution/Request Comparison

WEAPON SYSTEM ADVANCE PROCUREMENT EXHIBIT P-10 (COMPARISON OF REQUEST TO EXECUTIONS)				Budget Year 2- Fiscal Year Program -- FY00		
				DATE Feb 99		
Weapon System Type (Model/Series No.) C-17A	First System Award Date Jan-00	First System Completion Date Aug-02	Interval Between System Completions			
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Required/Actual	Delivery Date of First Equip. Required/Actual	Production Lead Time in Months Total Requested (ADM/Prod) Actual (ADM/Prod)	Total Cost Requested (\$ in Millions)	Actual Contract Cost (\$ in Millions)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. AIRCRAFT CFE	15	Dec-99	Aug-02			277.5
2. AIRCRAFT GFE						27.4
3. SUBTOTAL						304.9
5. TOTAL	15					304.9
<p>-- FY00 advanced buy will procure 15 aircraft in FY01 (Lot XIII). -- P86 is the first aircraft of this lot buy; the first scheduled delivery is Aug 02. -- Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs. -- Document provided to support the FY00 PB</p>						

Exhibit P-10 Advance Procurement Execution/Request Comparison

WEAPON SYSTEM ADVANCE PROCUREMENT EXHIBIT P-10 (COMPARISON OF REQUEST TO EXECUTIONS)				Prior Year for Fiscal Year Program -- FY01		
				DATE Feb 99		
Weapon System Type (Model/Series No.) C-17A	First System Award Date Jan-01		First System Completion Date Aug-03	Interval Between System Completions		
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Required/Actual	Delivery Date of First Equip. Required/Actual	Production Lead Time in Months Total Requested (ADM/Prod) Actual (ADM/Prod)	Total Cost Requested	Actual Contract Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. AIRCRAFT CFE	15	Dec-00	Aug-03			279.6
2. AIRCRAFT GFE						28.2
3. SUBTOTAL						307.8
5. TOTAL	15					307.8
<p>-- FY01 advanced buy will procure 15 aircraft for FY02 (Lot XIV). -- P101 is the first aircraft of this lot buy; the first scheduled delivery is Aug 03. -- Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs. --This document submitted to support the FY00 PB</p>						

Exhibit P-10 Advance Procurement Execution/Request Comparison
Exhibit P-10 Advance Procurement Execution/Request Comparison

P-40 FOR PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET				DATE FEB 99 FY00 President's Budget							
APPROPRIATION/BUDGET ACTIVITY 3010/10400E (\$M)				P-1 ITEM NOMENCLATURE EC-130J HERCULES							
	PRIOR YEARS	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	0	0	1	1	1	0	0	TBD	TBD
COST (MILLIONS)	0.0	0.0	0.0	0.0	69.0	48.4	84.8	0.0	0.0	TBD	TBD
INITIAL SPARES (MILLIONS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	TBD
TOTAL (MILLIONS)	0.0	0.0	0.0	0.0	69.0	48.4	84.8	0.0	0.0	TBD	TBD
UNIT COST (MILLIONS)	N/A	N/A	N/A	N/A	69	48.4	84.8	N/A	N/A	N/A	N/A
<p>MISSION AND DESCRIPTION: The C-130 provides the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through airlanding, extraction, airdrop or other delivery techniques; and the air logistics support of all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements. It is a medium size tactical transport powered by four AE2100D3 turboprop engines.</p> <p>The Air Force is designated Executive Service for the C-130 production aircraft.</p> <p>The EC-130J is a derivative of the 130J. The aircraft is used to conduct special missions such as psychological operations, civil affairs radio and television broadcasts, Command Control Communications Counter measures and limited intelligence gathering.</p>											

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (\$M)	A. Appropriation/Budget Activity Title/No. 3010/10400E		B. Weapon Model/Series/ Popular Name EC-130J			C. Manufacturer Name Plant City/State Location LOCKHEED/MARIETTA, GA		D. Date Month/Year FEB 99 FY00 President's Budget	
Weapon System Cost Elements	Ident. Code	FY96 Unit Cost	QTY (0) Tot. Cost	FY97 Unit Cost	Qty (1) Tot. Cost	FY98 Unit Cost	Qty (1) Tot. Cost	FY99 Unit Cost	Qty (1) Tot. Cost
1. Airframes/Engine (4 per A/C) (Eng Model: ALLISON AE2100)	A			66.8	66.8	48.2	48.2	73.9	73.9
2. AVIONICS									
A. CFE									
B. GFE									
3. ARMAMENT									
4. OTHER GFE									
5. ECO (All Flyaway Components)				2.2	2.2	0.1	0.1	0.9	0.9
6. NON-RECURRING COSTS (Tooling) (Other)									
7. OTHER COSTS									
8. Subtotal FLYAWAY COST	A	0.0	0.0	69.0	69.0	48.3	48.3	74.8	74.8
9. PECULIAR SUPPORT EQUIPMENT	A			0.0				2.4	2.4
10. ICS				0.0					
11. DATA				0.0	0.0	0.2	0.2	1.8	1.8
12. PECULIAR TRAINING EQUIPMENT				0.0				0.0	
13. PUBLICATIONS/TECH. DATA				0.0				5.8	5.8
14. TRAINING				0.0					
15. OTHER (TEST/MISSION) PMA (PAP 56) TRANSFER	A			0.0	0.0				
16. Subtotal SUPPORT COST		0.0	0.0	0.0	0.0	0.2	0.1	10.0	10.0
17. GROSS P-1 END COST		0.0	0.0	69.0	69.0	48.5	48.4	84.8	84.8
18. LESS: PRIOR YR ADV. PROC (Breakout by Prior FY offunding)									
19. NET P-1 FULL FUNDING COST (Must equal FY amount displayed on the P-40 exhibit)		0.0	0.0	69.0	69.0	48.5	48.4	84.8	84.8
20. Plus Current Year ADV, PROC.									
21. Other Non P-1 Weapon System Costs									
22. Initial Spares		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.0	0.0	69.0	69.0	48.4	48.4	84.8	84.8

BUDGET PROCURMENT HISTORY AND PLANNING EXHIBIT (P-5A)					A. DATE					
B. Appropriation/Budget Activity 3010/10400E					C. P-1 Item Nomenclature EC-130J					
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Available Now	Specs Rev Req'd	If Yes, when Available
97	LMAS Marietta, Ga.	Commercial FFP	AFMC	Dec-97	Jun-99	1	48.7	No	Yes	TBD
98	LMAS Marietta, Ga.	Commercial FFP	AFMC	Dec-97	Dec-99	1	48.2	No	Yes	TBD
99	LMAS Marietta, Ga.	Commercial FFP	AFMC	TBD	TBD	1	TBD	No	Yes	TBD

BUDGET ITEM JUSTIFICATION SHEET				DATE FEB 1999 FY00 President's Budget							
APPROPRIATION/BUDGET ACTIVITY 3010/ICS (\$M)				P-1 ITEM NOMENCLATURE C-130H							
	PRIOR YEARS	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	TO COMPLETE	TTL PROGRAM
QUANTITY	0	0	0	0	0	0	0	0	0	0.0	0
COST (MILLIONS)	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	11.1
INITIAL SPARES (MILLIONS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL (MILLIONS)	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	11.1
UNIT COST (MILLIONS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
MISSION AND DESCRIPTION: C-130H provides the immediate and responsive air movement and delivery of combat troops and supplies directly in objective areas through airlanding, extraction, airdrop or other delivery techniques. Provides air logistic support for all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements .											

BUDGET ITEM JUSTIFICATION SHEET				DATE FEB 1999 FY00 President's Budget							
APPROPRIATION/BUDGET ACTIVITY 3010/ICS (\$M)				P-1 ITEM NOMENCLATURE C-130H							
	PRIOR YEARS	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	TO COMPLETE	TTL PROGRAM
QUANTITY	0	0	0	0	0	0	0	0	0	0.0	0
COST (MILLIONS)	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	11.1
INITIAL SPARES (MILLIONS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL (MILLIONS)	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	11.1
UNIT COST (MILLIONS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
MISSION AND DESCRIPTION:											
<p>C-130H provides the immediate and responsive air movement and delivery of combat troops and supplies directly in objective areas through airlanding, extraction, airdrop or other delivery techniques. Provides air logistic support for all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements .</p> <p>FY99 Funding</p> <p>Funding is for C-130 H3 Interim Contractor Support for 107 unique item and fleet-wide ICS for several modifications. (Self Contained Navigation System SCNS, and APQ-175, APN-241 radars).</p>											

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (\$M) FY00 President's Budget	A. Appropriation/Budget Activity Title/No. 3010/ICS		B. Weapon Model/Series/ Popular Name C-130H			C. Manufacturer Name Plant City/State location LOCKHEED/MARIETTA, GA		D. Date Month/Year FEB 99	
Weapon System Cost Elements	Ident. Code	FY97 Unit Cost	QTY (1) Tot. Cost	FY98 Unit Cost	Qty (0) Tot. Cost	FY99 Unit Cost	Qty (1) Tot. Cost	FY00 Unit Cost	Qty (0) Tot. Cost
1. Airframes/Engine (4 per A/C) (Eng Model: ALLISON AE2100)	A	0.0	0.0	0.0	0.0	0.0	0.0		
2. AVIONICS									
A. CFE									
B. GFE									
3. ARMAMENT									
4. OTHER GFE									
5. ECO (All Flyaway Components)			0.0				0.0		0.0
6. NON-RECURRING COSTS (Tooling) (Other)									
7. OTHER COSTS									
8. Subtotal FLYAWAY COST	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PECULIAR SUPPORT EQUIPMENT	A		0.0	0.0	0.0	0.0	0.0		0.0
10. ICS			0.0	0.0	0.0	0.0	11.1		
11. DATA			0.0	0.0	0.0	0.0	0.0		0.0
12. PECULIAR TRAINING EQUIPMENT			0.0	0.0	0.0	0.0	0.0		0.0
13. PUBLICATIONS/TECH. DATA			0.0	0.0	0.0	0.0	0.0		0.0
14. TRAINING			0.0	0.0	0.0	0.0	0.0		0.0
15. OTHER (TEST/MISSION) PMA (PAP 56) TRANSFER	A		0.0	0.0	0.0	0.0	0.0		0.0
16. Subtotal SUPPORT COST			0.0	0.0	0.0	0.0	11.1	0.0	0.0
17. GROSS P-1 END COST	A	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
18. LESS: PRIOR YR ADV. PROC (Breakout by Prior FY offunding)									
19. NET P-1 FULL FUNDING COST (Must equal FY amount displayed on the P-40 exhibit)	A	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
20. Plus Current Year ADV, PROC.									
21. Other Non P-1 Weapon System Costs									
22. Initial Spares			0.0	0.0	0.0	0.0	0.0		0.0
23. Mods									
TOTAL		0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0

P-40 FOR PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET				DATE FEB 99 FY00 President's Budget							
APPROPRIATION/BUDGET ACTIVITY 3010/10400W (\$M)				P-1 ITEM NOMENCLATURE WC-130J HERCULES							
	PRIOR YEARS	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	0	3	3	2	1	0	0	TBD	TBD
COST (MILLIONS)	0.0	0.0	0.0	132.6	152.4	123.8	75.2	0.0	0.0		TBD
INITIAL SPARES (MILLIONS)	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	TBD	TBD
TOTAL (MILLIONS)	0.0	0.0	0.0	132.6	152.4	126.5	75.2	0.0	0.0	TBD	TBD
UNIT COST (MILLIONS)	N/A	N/A	N/A	44.20	50.80	63.25		N/A	N/A	N/A	N/A

MISSION AND DESCRIPTION:

The C-130 provides the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through airlanding, extraction, airdrop or other delivery techniques; and the air logistics support of all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements. It is a medium size tactical transport powered by four AE2100D3 turboprop engines.

The Air Force is designated Executive Service for the C-130 production aircraft.

The WC-130J is the weather reconnaissance version of the C-130J. It provides immediate response for observation and reporting of critical storm conditions (hurricanes, tornadoes, etc) for transmission to the National Oceanographic and Atmospheric Administration (NOAA). The WC-130s routinely fly 10-12 hour missions originating from Kessler AFB MS.

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (\$M)	A. Appropriation/Budget Activity Title/No. 3010/10400W		B. Weapon Model/Series/ Popular Name WC-130J			C. Manufacturer Name Plant City/State location LOCKHEED/MARIETTA, GA		D. Date Month/Year FEB 99 President's Budget	
Weapon System Cost Elements	Ident. Code	FY97/Prior Unit Cost	QTY (6) Tot. Cost	FY98 Unit Cost	Qty (2) Tot. Cost	FY99 Unit Cost	Qty (1) Tot. Cost	FY00 Unit Cost	Qty Tot. Cost
1. Airframes/Engine (4 per A/C) (Eng Model: ALLISON AE2100)	A	45.7	273.9	48.2	96.4	52.9	52.9	0.0	0.0
2. AVIONICS A. CFE B. GFE									
3. ARMAMENT									
4. OTHER GFE			1.4	0.2	0.4	0.2	0.2		
5. ECO (All Flyaway Components)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. NON-RECURRING COSTS (Tooling) (Other)									
7. OTHER COSTS				6.8	13.5	12.7	12.7		
8. Subtotal FLYAWAY COST	0.0	45.7	275.3	55.2	110.3	65.8	65.8	0.0	0.0
9. PECULIAR SUPPORT EQUIPMENT	A			1.7	3.3	6.1	6.1		
10. ICS		0.1	0.6	2.1	4.1	0.0	0.0		
11. ISS						3.1	3.1		
12. CDRL/LSA&RM DATA		0.5	3.0	0.0	0.0	0.0	0.0		
13. PECULIAR TRAINING EQUIPMENT				3.0	6.0	0.0	0.0		
14. PUBLICATIONS/TECH. DATA		0.8	4.5	0.0	0.0	0.0	0.0		
15. TRAINING		0.3	1.6	0.1	0.1	0.2	0.2		
16. OTHER (TEST/MISSION) PMA (PAP 56) TRANSFER	A								
17. Subtotal SUPPORT COST		1.6	9.7	6.8	13.5	9.4	9.4	0.0	0.0
18. GROSS P-1 END COST	0.0	47.3	285.0	61.9	123.8	75.2	75.2	0.0	0.0
19. LESS: PRIOR YR ADV. PROC (Breakout by Prior FY offunding)									
20. NET P-1 FULL FUNDING COST (Must equal FY amount displayed on the P-40 exhibit)	0.0	47.3	285.0	61.9	123.8	75.2	75.2	0.0	0.0
21. Plus Current Year ADV, PROC.									
22. Other Non P-1 Weapon System Costs									
23. Initial Spares		0.0	0.0	1.4	2.7	0.0	0.0	0.0	0.0
TOTAL	0.0	47.3	285.0	63.3	126.5	75.2	75.2	0.0	0.0

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					A. DATE					
					FEB 99		FY00 President's Budget			
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
3010/10400W			WC-130J							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Available Now	Specs RE REQ'D	If Yes, when Available
96	LMAS Marietta, Ga.	Commercial FFP	AFMC	Aug-97	Apr-99	3	44.2	Yes	No	N/A
97	LMAS Marietta, Ga.	Commercial FFP	AFMC	Aug-97 Aug-97	Oct-99	2	47.4	Yes	No	N/A
					Nov-99	1	47.4	Yes	No	N/A
98	LMAS Marietta, Ga.	Commercial FFP	AFMC	Dec-98	Jan-00	2	48.2	Yes	No	N/A
99	LMAS Marietta, Ga.	Commercial FFP	AFMC	TBD	TBD	1	TBD	Yes	No	N/A

P-40 FOR PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET				DATE 22-Jan-99							
APPROPRIATION/BUDGET ACTIVITY 3010/10400C (\$M)				P-1 ITEM NOMENCLATURE C-130J HERCULES							
	PRIOR YEARS	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	FY 04	FY 05	TO COMPLETE	TOTAL PROGRAM
QUANTITY	3	0	0	0	0	2	2	8	10	TBD	TBD
COST (MILLIONS)	162.8	26.6	29.4	32.4	32.1	173.4	182.9	182.9	796.9	TBD	TBD
INITIAL SPARES (MILLIONS)	5.4	0.7	61.8	0.0	0.0	0.0	0.0	0.0	0.0	TBD	TBD
TOTAL (MILLIONS)	168.2	27.3	91.2	32.4	32.1	173.4	182.9	182.9	796.9	TBD	TBD
UNIT COST (MILLIONS)	56.07	N/A	N/A	N/A	N/A	86.70	91.45	22.86	79.69	N/A	N/A
MISSION AND DESCRIPTION											
<p>The C-130 provides the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through airlanding, extraction, airdrop or other delivery techniques, and the air logistics support of all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements. It is a medium size tactical transport powered by four AE2100D3 turboprop engines. It has a max range of 3,070 NM, a service ceiling of 30,560 feet, and a cruise speed of 342 knots, or carry a max payload of 39,311 pounds. The Air Force is designated Executive Service for the C-130 production contract. Total PMA requirements for contract support, SPO administrative support and computer support, and TDY are included. They are listed by line entry in the P-5.</p> <p>The C-130J program has awarded a single overarching contract for all initial operational support as part of the Reengineered Supply Support Process (RSSP) Pilot Program. This single contract incorporates all supply support requirements, including all spare parts support, to be funded in BP10. The contractor will provide all spare parts as a service under this contract to achieve an agreed to mission capability rate. To partially fund this "spares as a service" concept, referred to as Interim Supply Support (ISS), the funding previously identified for initial spares beginning in FY00 has been transferred in total to the weapon system procurement line. Following the implementation of this support concept, options in the current contract for FY00 will be exercised.</p>											

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (\$M)	A. Appropriation/Budget Activity Title/No. 3010/10400C		B. Weapon Model/Series/ Popular Name C-130J		C. Manufacturer Name Plant City/State location LOCKHEED/MARIETTA, GA		D. Date Month/Year 22-Jan-99			
	Weapon System Cost Elements	Ident. Code	FY98 Unit Cost	Qty (0) Tot. Cost	FY99 Unit Cost	Qty (0) Tot. Cost	FY00 Unit Cost	Qty (0) Tot. Cost	FY01 Unit Cost	0 Tot. Cost
1. Airframes/Engine (4 per A/C) (Eng Model: ALLISON AE2100)	A	0.0	0.0	0.0	0.0	0.0			0.0	0.0
2. AVIONICS A. CFE B. GFE										
3. ARMAMENT										
4. OTHER GFE										
5. ECO (All Flyaway Components)										
6. NON-RECURRING COSTS (Tooling) (Other)				0.0		2.1			0.0	0.0
7. OTHER COSTS				0.0						
8. Subtotal FLYAWAY COST				0.0						
9. PECULIAR SUPPORT EQUIPMENT	A	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
10. ICS				0.0	0.0	0.0			0.0	0.0
11. Interim Supply Support (ISS)				8.8	0.0	0.0		4.0	0.0	4.5
12. CDRL, LSA/R&M DATA							18.1	0.0	0.0	19.5
13. PECULIAR TRAINING EQUIPMENT				3.5	0.0	0.0		3.5	0.0	2.5
14. PUBLICATIONS/TECH. DATA				3.0	0.0	27.3		0.0	0.0	0.0
15. TRAINING				1.0	0.0	0.0		1.6	0.0	1.0
16. OTHER (TEST/MISSION) PMA (PAP 56) TRANSFER	A			0.7	0.0	0.0		0.0	0.0	0.0
				8.6	0.0	0.0		3.4	0.0	3.4
17. Subtotal SUPPORT COST			0.0	25.6	0.0	27.3				
18. GROSS P-1 END COST		0.0	0.0	25.6	0.0	29.4	0.0	30.6	0.0	30.9
19. LESS: PRIOR YR ADV. PROC (Breakout by Prior FY of funding)							0.0	30.6	0.0	30.9
20. NET P-1 FULL FUNDING COST (Must equal FY amount displayed on the P-40 exhibit)		0.0	0.0	25.6	0.0	29.4	0.0	30.6	0.0	30.9
21. Plus Current Year ADV. PROC										
22. Other Non P-1 Weapon System Costs										
23. Initial Spares										
24. Mods				0.7	0.0	61.8			0.0	0.0
TOTAL		0.0	0.0	26.3	0.0	91.2	15.3	30.6	0.0	30.9

EXHIBIT P-5

BUDGET PROCURMENT HISTROY AND PLANNING EXHIBIT (P-5A)					A. DATE					
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
3010/10400C			C-130J							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Available	Specs Re Req'd	If Yes, when Available
96	LASC Marietta, Ga.	SS/FP	AFMC	Nov-96	Mar-99	2	44.2M	Yes	No	N/A
97	LASC Marietta, Ga.	SS/FP	AFMC	Sep-97	Jul-99	1	47.1	Yes	No	N/A
02	LASC Marietta, Ga.	SS/FP	AFMC	TBD	TBD	2	61.9	Yes	No	N/A
03	LASC Marietta, Ga.	SS/FP	AFMC	TBD	TBD	2	63.7	Yes	No	N/A
04	LASC Marietta, Ga.	SS/FP	AFMC	TBD	TBD	8	64.6	Yes	No	N/A
05	LASC Marietta, Ga.	SS/FP	AFMC	TBD	TBD	10	66.0	Yes	No	N/A

D> REMARKS

Air Vehicle: a. FY96 a/c were the initial cadre of aircraft procured under the Five Year Option Contract (FYOC). The engines are being provided as Contractor Furnished Equipment (CFE) and are included in the air vehicle price.

b. No Air Force C-130J aircraft were programmed for FY98 through FY01

c. Starting in FY02, stretch C-130J (J-30) aircraft will be procured

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)										Date: FEB 99
										FY00 President's Budget
APPROPRIATION/P-1 Line Item:			Weapon System: C-130 Trainers (ATS & MTD)		Equipment Nomenclature: Aircrew & Maintenance Trainer			PE 41132F		
Fin Plan	98/PRIOR	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	TC	Total
Quantity - ATS - MTD		1			0 1		0 1	1	TBD TBD	TBD TBD
Proc - ATS - MTD		27.3			23.5		23.1	35.7	TBD TBD	TBD TBD
RDT&E										
TOTAL		27.3	0.0	0.0	23.5	0.0	23.1	35.7	TBD	TBD
<p>TRAINING SYSTEM DESCRIPTION</p> <p>ATS Provides initial and continuous training for C-130J aircrew members. Training will be totally contractor administered and supported, with AETC, AMC, ANG, AFRC, and USMC evaluating the final product. In FY99, the Aircrew Training System (ATS) consists of Weapon System Trainers (WSTs), Computer Based Trainers (CBTs), Loadmaster Station, and Training MIS and training system support.</p> <p>MTD The system is designed for all the maintenance training skill levels. The system will employ accessibility, reparability, and interchangeability features. The Maintenance Training Devices (MTD) is a suited including avionics, propulsion, and APU trainers.</p>										

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BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA03, TRAINER AIRCRAFT	Joint Primary Aircraft Training System (JPATS)	

	FY 99/ Prior	FY 2000	FY2001	FY2002	FY 2003	FY 2004	FY 2005	To Comp	Total
QUANTITY	68	21	27	49	56	58	58	35	372
COST (In Millions)	335.8	88.2	97.2	210.1	246.9	255.9	264.3	173.9	1672.3
Initial Spares (in M)	0	0	0	0	60.5	23.5	24.2	15.2	123.4
Total (In Millions)	335.8	88.2	97.2	210.1	307.4	279.4	288.5	189.1	1795.7
Flyaway U/C (\$M)	4.0	2.6	2.7	3.9	3.9	4.0	4.1	4.3	3.8
Weapon System U/C	4.9	4.2	3.6	4.3	5.5	4.8	5.0	5.4	4.8

MISSION AND DESCRIPTION: Supports Air Education and Training Command's (AETC) implementation of Specialized Undergraduate Pilot Training, (SUPT) and the Department of Defense initiative for joint pilot training. The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37/T-34 respectively) and associated Ground Based Training Systems (GBTS). The USAF's T-37 aircraft average over 35 years of age. They have antiquated, increasingly unsupportable and non-representative avionics, as well as, underpowered and fuel inefficient engines. Cockpits are unpressurized, resulting in the largest number of physiological incidents in the Air Force. The USAF is the Executive Service.

ORD II, Rev 1 calls for the purchase of 740 aircraft without specifying service quantities. The USAF planned quantity is 372, with the first procurement in FY95. The current USN planned quantity is 339, beginning in FY00. The additional 29 aircraft are pending resolution of which service will procure them. The JPATS program involves the missionization of a commercial derivative aircraft, equipment, and components.

FY 00 PROGRAM JUSTIFICATION:

FY00 funding will procure 21 aircraft and associated support. Aircraft are required to begin training at Laughlin AFB, TX.

FY 01 PROGRAM JUSTIFICATION:

FY 01 funding will procure 27 aircraft and associated support. Aircraft are required to begin training at Laughlin AFB, TX.

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AIRCRAFT COST ANALYSIS EXHIBIT P-5 (Dollars in Millions)	A. Appn/Budget Activity Title/No. 010/84740F		B. Popular Name Joint Primary Aircraft Training System		C. Manufacturer Raytheon Aircraft Co Wichita, Kansas		D. Date Jan-99	
	FY99 &	QTY		QTY				QTY
	Prior Unit Cost	68 Total Cost	FY00 Unit Cost	21 Total Cost	FY01 Unit Cost	27 Total Cost	FY02 Unit Cost	49 Total Cost
FLYAWAY COST								
AIRFRAME/CFE	4.0	272.7	2.6	55.5	2.7	72.5	3.9	189.0
ENGINE/ACCESSORIES								
Eng Model:								
AVIONICS								
ARMAMENT								
OTHER GFE								
ECO (All Flyaway Components)								
NON-RECURRING COSTS								
OTHER COSTS								
Subtotal FLYAWAY COSTS	4.0	272.7	2.6	55.5	2.7	72.5	3.9	189.0
GROUND BASED TRAINING SYSTEMS COSTS								
AIRFRAME/CFE	4.4	26.2	3.3	23.0	2.7	15.9	2.0	12.2
ENGINE/ACCESSORIES								
Eng Model:								
AVIONICS								
ARMAMENT								
OTHER GFE								
ECO (All Flyaway Components)								
NON-RECURRING COSTS								
OTHER COSTS								
Subtotal GROUND BASED TRG SYS	4.4	26.2	3.3	23.0	2.7	15.9	2.0	12.2
OTHER COSTS								
CONTRACT LOGISTICS SUPPORT		2.5		2.9		0.3		0.0
DEINSTRUMENTATION		0.1						
ASIP/ENSIP		14.4						
TRAINING		1.3		0.0				
PUBLICATIONS/TECH. DATA		3.5		0.6		0.6		0.6
AWARD FEE		6.7		1.2		1.6		0.0
Program Management Administration (PMA)		8.4		5.0		6.3		8.3
Subtotal OTHER COSTS	0.5	36.9	0.5	9.7	0.3	8.8	0.3	8.9
GROSS P-1 COST	8.9	335.8	6.4	88.2	5.7	97.2	6.2	210.1
20 LESS: Prior Yr Adv. Proc		0.0		0.0		0.0		0.0
21 NET P-1 COST	8.9	335.8	6.4	88.2	5.7	97.2	6.2	210.1

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					A. DATE					
FY00 President's Budget					January 99					
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
3010/84740F			Joint Primary Aircraft Training System (JPATS)							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Available Now	Specs REV REQ'D	If Yes, when Available
AIR VEHICLE										
FY95	Raytheon Aircraft Wichita, Kansas	C/FPO	ASC/YT WPAFB OH	Feb-96	Feb-99	3	9.1	Yes	No	N/A
FY96		C/FPO	ASC/YT WPAFB OH	Sep-96	Mar-99	6	5.6	Yes	No	N/A
FY97		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Apr-97	Jun-99	15	4.0	N/A	N/A	N/A
FY98		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Feb-98	Feb-00	22	3.2	N/A	N/A	N/A
FY99		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Feb-99	Feb-01	22	3.0	N/A	N/A	N/A
FY00		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Feb-00	Feb-02	21	2.6	N/A	N/A	N/A
FY01		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Feb-01	Feb-03	27	2.7	N/A	N/A	N/A
D. REMARKS:										
Variations in Unit Cost from FY to FY: There is a significant amount of non-recurring associated with FY95 which decreases in FY96 and FY97.										

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FY00/01 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)																	DATE		January 1999	B A L A N C E																
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 01												FISCAL YEAR 02					FISCAL YEAR 03																			
					CALENDAR YEAR 2001												CALENDAR YEAR 02					CALENDAR YEAR 03																			
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													
Air Vehicle FY95	J	3	3	0																																					
Air Vehicle FY96	J	6	6	0																																					
Air Vehicle FY97	J	15	15	0																																					
Air Vehicle FY98	J	22	16	6	1	2	1	2																																	
Air Vehicle FY99	J	22	0	22				1	2	1	2	2	2	2	2	2	2	2	2																						
Air Vehicle FY00	J	29	0	29														2	2	2	2	2	2	2	3	3	3	3	3												
Air Vehicle FY01	J	51	0	51																																					
Air Vehicle FY02	J	73	0	73																								4	4	4	4	4	4	4	4	4	4				
Air Vehicle FY03	J	80	0	80																																					
Air Vehicle FY04	J	82	0	82																																					
Air Vehicle FY05	J	82	0	82																																					

Manufacturer's Name and Location	Production Rates				PROCUREMENT LEAD TIMES					REMARKS: USAF Buy + USN Buy
	Min/Sust Rate	1-8-5	Max	rd md	Initial Reorder	Admin Lead Time		MFG TIME	TOTAL	
Air Vehicle	12	96	144	Prior to October 1		After October 1				
Raytheon Aircraft Co. Wichita, Kansas				0		5	33	38		
				0	5	24	29			

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FY00/01 BUDGET PRODUCTION SCHEDULE				P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)													DATE January 1999		B A L A N C E																						
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 04												FISCAL YEAR 05												FISCAL YEAR 06												
					2003 CALENDAR YEAR 2004												2005 CALENDAR YEAR 2005												2006 CALENDAR YEAR 2006												
					O	N	D	J	F	M	A	M	J	J	A	S	O	N		D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Air Vehicle FY95	J	3	3	0																																	0				
Air Vehicle FY96	J	6	6	0																																0					
Air Vehicle FY97	J	15	15	0																																0					
Air Vehicle FY98	J	22	22	0																																0					
Air Vehicle FY99	J	22	22	0																																0					
Air Vehicle FY00	J	29	29	12																																0					
Air Vehicle FY01	J	51	32	19	4	5	5	5																											0						
Air Vehicle FY02	J	73	0	73					6	6	6	6	6	6	6	6	6	7																	0						
Air Vehicle FY03	J	80	0	80														6	7	7	6	7	7	6	7	7	6	7	7	6	7	7			0						
Air Vehicle FY04	J	82	0	82																																0					
Air Vehicle FY05	J	82	0	82																																28					

Manufacturer's Name and Location	Production Rates				PROCUREMENT LEAD TIMES				REMARKS: USAF Buy + USN Buy
	Min/Sust Rate	1-8-5	Max	rd	Initial Reorder	Admin Lead Time		MFG TIME	
Air Vehicle	12	96	144			Prior to October 1	After October 1		
Raytheon Aircraft Co. Wichita, Kansas						0	5	33	38
					0	5	24	29	

UNCLASSIFIED

FY00/01 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)																			DATE January 1999			BALANCE																									
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 98													FISCAL YEAR 99						FISCAL YEAR 00																												
					1997 CALENDAR YEAR 1998													1998 CALENDAR YEAR 99						1999 CALENDAR YEAR 00																												
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												
Air Vehicle FY95	N	0	0	0																																											0					
Air Vehicle FY96	N	0	0	0																																												0				
Air Vehicle FY97	N	0	0	0																																												0				
Air Vehicle FY98	N	0	0	0																																												0				
Air Vehicle FY99	N	0	0	0																																												0				
Air Vehicle FY00	0	8	0	8																																												8				
Air Vehicle FY01	N	24	0	24																																												24				
Air Vehicle FY02	N	24	0	24																																												24				
Air Vehicle FY03	N	24	0	24																																												24				
Air Vehicle FY04	N	24	0	24																																												24				
Air Vehicle FY05	N	24	0	24																																												24				
Manufacturer's Name and Location				Production Rates				PROCUREMENT LEAD TIMES														REMARKS:																														
				Min/Sust Rate 1-8-5 Max rd 				Admin Lead Time				MFG TIME TOTAL		USN Buy Only																																						
Air Vehicle				12 96 144 rd				Prior to October 1		After October 1																																										
Raytheon Aircraft Co.								0 5				33 38																																								
Wichita Kansas								0 5				24 29																																								

FY00/01 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)													DATE			January 1999	B A L A N C E																								
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 01													FISCAL YEAR 02			FISCAL YEAR 03																									
					2000 CALENDAR YEAR 2001													2001 CALENDAR YEAR 02			2002 CALENDAR YEAR 03																									
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B		M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Air Vehicle FY95	N	0	0	0																																								0		
Air Vehicle FY96	N	0	0	0																																									0	
Air Vehicle FY97	N	0	0	0																																									0	
Air Vehicle FY98	N	0	0	0																																									0	
Air Vehicle FY99	N	0	0	0																																									0	
Air Vehicle FY00	N	8	0	8																																									0	
Air Vehicle FY01	N	24	0	24																								2	3	3																0
Air Vehicle FY02	N	24	0	24																																									8	
Air Vehicle FY03	N	24	0	24																																									24	
Air Vehicle FY04	N	24	0	24																																									24	
Air Vehicle FY05	N	24	0	24																																									24	

Manufacturer's Name and Location	Production Rates			PROCUREMENT LEAD TIMES					REMARKS: USN Buy Only
	Min/Sust Rate	1-8-5	Max rd	Initial Reorder	Admin Lead Time		MFG TIME	TOTAL	
	12	96	144		Prior to October 1	After October 1			

FY00/01 BUDGET PRODUCTION SCHEDULE				P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)														DATE January 1999				B A L A N C E																			
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 04												FISCAL YEAR 05												FISCAL YEAR 06												
					2003 CALENDAR YEAR 2004												2004 CALENDAR YEAR 2005												2005 CALENDAR YEAR 2006												
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B		M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Air Vehicle FY95	N	0	0	0																																				0	
Air Vehicle FY96	N	0	0	0																																			0		
Air Vehicle FY97	N	0	0	0																																			0		
Air Vehicle FY98	N	0	0	0																																			0		
Air Vehicle FY99	N	0	0	0																																			0		
Air Vehicle FY00	N	8	8	0																																		0			
Air Vehicle FY01	N	24	16	8	2	2	2	2																														0			
Air Vehicle FY02	N	24	0	24																																		0			
Air Vehicle FY03	N	24	0	24																																		0			
Air Vehicle FY04	N	24	0	24																																		0			
Air Vehicle FY05	N	24		24																																		8			
																																						24			
Manufacturer's Name and Location				Production Rates				PROCUREMENT LEAD TIMES								REMARKS:																									
Air Vehicle				Min/Sust Rate		1-8-5 Max rd		Initial Reorder		Admin Lead Time		MFG TIME		USN Buy Only																											
				12 96		144				Prior to October 1		After October 1						33 38																							
Raytheon Aircraft Co.												24 29																													
Wichita, Kansas																																									

UNCLASSIFIED

FY00/01 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)														DATE January 1999			B A L A N C E																			
Item/Manu Proc Year	S E R V V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 98														FISCAL YEAR 99				FISCAL YEAR 00																		
					1997														1998			1998			1998																
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Air Vehicle FY95	F	3	0	3															3																						0
Air Vehicle FY96	F	6	0	6															2	4																					0
Air Vehicle FY97	F	15	0	15																																					0
Air Vehicle FY98	F	22	0	22																																					6
Air Vehicle FY99	F	22	0	22																																					22
Air Vehicle FY00	F	21	0	21																																				21	
Air Vehicle FY01	F	27	0	27																																				27	
Air Vehicle FY02	F	49	0	49																																				49	
Air Vehicle FY03	F	56	0	56																																			56		
Air Vehicle FY04	F	58	0	58																																			58		
Air Vehicle FY05	F	58	0	58																																				58	
Manufacturer's Name and Location					Production Rates				PROCUREMENT LEAD TIMES										REMARKS:																						
					Min/Sust	1-8-5		rd	Admin Lead Time						MFG		USAF Buy Only																								
					Rate		Max								rd	TIME							TOTAL																		
Air Vehicle					12	96	144	Prior to October 1																																	
Raytheon Aircraft Co.								After October 1																																	
Wichita Kansas								Initial Reorder						0 5		33 38																									
														0 5		24 29																									

UNCLASSIFIED

FY00/01 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE Joint Primary Aircraft Training System (JPATS)																			DATE January 1999			BALANCE																		
Item/Manu Proc Year	S E R V	Proc Qty	Accep. Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 04												FISCAL YEAR 05												FISCAL YEAR 06																
					2003												2005												2006																
					CALENDAR YEAR 2004												CALENDAR YEAR 2005												CALENDAR YEAR 2006																
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP										
Air Vehicle FY95	F	3	3	0																																					0				
Air Vehicle FY96	F	6	6	0																																				0					
Air Vehicle FY97	F	15	15	0																																				0					
Air Vehicle FY98	F	22	22	0																																				0					
Air Vehicle FY99	F	22	22	0																																				0					
Air Vehicle FY00	F	21	21	0																																			0						
Air Vehicle FY01	F	27	16	11	2	3	3	3																															0						
Air Vehicle FY02	F	49	0	49					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0						
Air Vehicle FY03	F	56	0	56															4	5	5	4	5	5	4	5	5	4	5	5	4	5	5	4	5	5	4	5	5	0					
Air Vehicle FY04	F	58	0	58																																	4	5	5	5	5	5	4	5	20
Air Vehicle FY05	F	58	0	58																																					58				

Manufacturer's Name and Location	Production Rates				PROCUREMENT LEAD TIMES				REMARKS:
	Min/Sust Rate	1-8-5	Max	rd	Admin Lead Time		MFG	TOTAL	
					Prior to October 1	After October 1	TIME		
Air Vehicle	12	96	144						USAF Buy Only
Raytheon Aircraft Co.									
Witchita, Kansas									
					Initial	0	5	33	38
					Reorder	0	5	24	29

P-1 SHOPPING LIST

PAGE 3 OF 3

P-21

UNCLASSIFIED

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)							DATE		
FY00 President's Budget (PB)							Jan-99		
Appropriation/P-1 Line Item 3010/Joint Primary Aircraft Training System (JPATS)			Weapon System(If Applicable) JPATS			Equipment Nomenclature			PE 84740F
Fin Plan	Prior Yrs	CY (99)	BY1 (00)	BY2 (01)	BY2+1	BY2+2	BY2+3	BY2+4	Total
Quantity	3	6	7	6	6	9	9	10	59*
Proc	0.0	26.2	23.0	15.9	12.2	18.4	19.2	22.0	143.5
RDT&E	28.6	32.0	31.0	20.5	1.9	2.0	2.1	2.0	120.1
O&S	0.0	0.0	0.0	1.2	4.5	4.5	4.9	5.1	101.0
<p>TRAINING SYSTEM DESCRIPTION</p> <p>Training will consist of a single primary phase of Specialized Undergraduate Pilot Training (SUPT). The objective of both the Air Force and the Navy is to jointly acquire an integrated training system using similar hardware with like capabilities. Components of the system include simulators, curricula, contractor logistics support and aircraft. This project represents the ground based training portion of the system. Quantities reflect only Operational Flight Trainers (OFT), Instrument Flight Trainers (IFT), and Unit Training Devices (UTD).</p> <p>* Quantity consists of 3 for RDT&E and 56 for Procurement. ** O&S total is from FY01-FY14. FY15-FY38 is TBD.</p>									
			P-1 Shopping List Item No.	Page No.	EXHIBIT P-43 Simulator & Training Device Justification				
				1					

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2)						(\$ M) FY00 President's Budget		DATE: Jan-99				
Appropriation/ P-1 Line Item 3010/JPATS		Weapon System (If Applicable) JPATS		IOC Date Aug-01	Equipment Nomenclature			PE 84740F				
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year (99)		Budget Year1 (00)		Budget Year2 (01)	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
OFT	Various				0	N/A	2	4.8	3	7.9	1	3.2
IFT	Various				0	N/A	2	3.0	2	2.9	4	5.9
UTD	Various				0	N/A	2	2.2	2	2.1	1	0.9
P-1 Shopping List				Item No.	Page No.			EXHIBIT P-43				
					2							

P-40 FOR PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET						DATE FEB 99 FY00 President's Budget					
APPROPRIATION/BUDGET ACTIVITY: 3010 AIRCRAFT PROCUREMENT/ SPECIAL OPERATIONS AIRCRAFT						P-1 ITEM NOMENCLATURE CV-22 Special Operation Aircraft					
	PY	FY 98	FY 99	FY 00	FY 01	FY02	FY03	FY04	FY05	TO COMP	TOTAL
QUANTITY	0	0	0	0	4	6	9	9	9	13	50
Air Vehicle	0.000	0.000	22.213	49.484	365.597	421.162	487.781	486.825	464.363		
Initial Spares					16.798	67.813	54.441	61.495	78.948		
Tot Cost TY\$M	0.000	0.000	22.213	49.484	382.395	488.975	542.222	548.320	543.311	707.360	3,284.280

MISSION AND DESCRIPTION:

The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical lift, multi-mission aircraft. The CV-22 will provide long-range, high speed infiltration, exfiltration, and resupply to special forces teams in hostile, denied, and politically sensitive areas. The Navy is the lead service for the joint V-22 program and is responsible for managing and funding the development of all V-22 variants, including the CV-22. The Air Force will procure and field 50 CV-22 aircraft and support equipment for USSOCOM, conduct IOT&E, and provide Type I training. USSOCOM funds the procurement of SOF unique systems, e.g. terrain following radar, electronic warfare suite, etc. The Air Force will fund 85 percent of the procurement cost for CV-22 training systems; USSOCOM, 15 percent. The Air Force and Navy will utilize joint training facilities at MCAS New River, NC to conduct all maintenance training and initial V-22 aircrew qualification training. CV-22 SOF-unique aircrew mission training will be conducted at the Special Operations Mission Qualification Schoolhouse at Kirtland AFB, NM. CV-22 procurement is an FY99 Air Force new start.

FY 00 PROGRAM JUSTIFICATION:

Air Frame PGSE (1537 Line 13) procures 3 year leadtime I-level PGSE to support Kirtland and Hurlburt.

Peculiar Training (1537 Line 16) procures a high fidelity Operational Flight Trainer (OFT) for special operations aircrew mission qualification training. The OFT is a non-motion training device that provides a realistic visual simulated environment and full fidelity aircraft functionality. Initial V-22 flight training will be conducted at a joint schoolhouse at MCAS New River, NC for both USMC and USAF pilots. After completing initial training, USAF pilots will go through mission qualification training using WSTs, OFTs, and training aircraft at Kirtland AFB, NM. The OFT will be used to train special operations mission requirements that don't require full motion fidelity as in the WST. The OFT is being procured with 15% USSOCOM and 85% USAF funding and requires a two year lead time for delivery. In order to support CV-22 initial operational capability in 4QFY04, initial operational aircraft delivery in 2QFY03, and ready for training milestone in 4QFY02, procurement of the OFT must begin in FY00. A total of 2 OFTs and 2 WSTs will be required at Kirtland AFB to support training throughput.

Publications and Technical Data (1537 Line 17) procures Updates to the USAF General Series Manuals for inclusion of CV-22 Unique Items and O-Level Technical data.

Other ILS (1537 Line 18) and Production Engineering Support (1537 Line 19) provides funding for logistics and engineering support functions at various Air Force, Marine Corp and Navy locations.

(1537 Line 25) Provides funding for advanced procurement necessary to support procurement of the first lot of CV-22's in FY 01.

FY 01 PROGRAM JUSTIFICATION:

Total Flyaway (1537 Line 12) procures 4 CV-22 Aircraft

PGSE (1537 Lines 13-15) procures 2 year lead airframe, engine and avionics O&I level PGSE to support Kirtland and Hurlburt.

Peculiar Training (1537 Line 16) procures Air Force portion (85%) of first unit training OFT for Hurlburt and second OFT for Kirtland

Publications and Technical Data (1537 Line 17) procures Flight Manuals, General Series Manuals updates, O-Level tech data, Technical manual data cards, and O&I level Integrated Electronic Technical Manual System (IETMS) to support first production lot of CV-22's

Other ILS (1537 Line 18) and Production Engineering Support (1537 Line 19) provides funding for logistics and engineering support functions at various Air Force, Marine Corp and Navy locations.

Initial Spares (1537 Line 27) Procures depth of spares necessary for site stand-up at Kirtland and depth of spares necessary to support the first year's projected flying hour program

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FY00 President's Budget		Appropriation/Budget Activity Title/No. 3010/CV-22		B. Weapon Model/Series/Popular Name CV-22		C. Manufacturer Name Plant City/State location Bell-Boeing Fort Worth, TX		D. Date 'FEB 99		
Weapon System Cost Elements		Ident. Code	FY 98 Unit Cost	Tot. Cost	FY99 Unit Cost	Tot. Cost	FY00 Unit Cost	Tot. Cost	FY01 Unit Cost	4 Tot. Cost
1	Airframe CFE								58,280.53	233,122.12
2	Engines/Eng Acc								3,660.00	14,640.00
3	CFE Electronics									
4	GFE Electronics								427.71	1,710.83
5	Armament									
6	Other GFE									
7	Rec Flyaway ECO								2,566.47	10,265.89
8	Rec Flyaway Cost		-	-	-	-	-	-	64,934.71	259,738.84
9	Non-Recur Cost								1,933.94	7,735.75
10	Ancillary Equip									
11										
12	Total Flyaway		-	-	-	-	-	-	66,868.65	267,474.59
13	Airframe PGSE							9,268.18		19,429.28
14	Engine PGSE									344.17
15	Avionics PGSE									28,844.27
16	Pec Training Eq					22,213.00	16,727.34			28,215.92
17	Pub/Tech Eq						304.18			5,392.22
18	Other ILS						2,347.22			3,674.76
19	Prod Eng Supt						547.40			1,744.04
20										3,557.98
21	Support Cost					22,213.00	29,194.32			91,202.64
22	Gross P-1 Cost					22,213.00	29,194.32			358,677.23
23	Adv Proc Credit									(20,289.69)
24	Net P-1 Cost					22,213.00	29,194.32			338,387.54
25	Adv Proc CY						20,289.69			27,209.35
26	Weapon System Cost					22,213.00	49,484.01		91,399.22	365,596.89
27	Initial Spares									16,798.11
28	Total (Then Year Thousands of\$)		-	-	-	22,213.00	-	49,484.01	95,598.75	382,395.00

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE			
FY00 President's Budget					CV-22			FEB 99			
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					SUBHEAD	
3010 PE 41318F					CV-22						
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (\$M)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	TECH DATA AVAILABLE NOW?	DATE REVISIONS AVAILABLE	
Airframe:											
FY2000 Adv Procurement			NAVAIR	New Contract	SS/AAC	Bell-Boeing, Patuxent River MD	Mar 00				
FY2001 Airframe	4	\$58.3	NAVAIR	Option	SS/AAC FPI	Bell-Boeing, Patuxent River MD	Mar01	Mar03	Yes		
FY2001 Adv Procurement			NAVAIR		SS/AAC	Bell-Boeing, Patuxent River MD	Mar01				
Engines:											
FY2001	8	\$1.8	NAVAIR	Option	SS/FFP	Allison Engine Co, Indianapolis IN	Jan01	Aug02	Yes		
D. REMARKS											

FY 2000/01 OSD/OMB BUDGET PRODUCTION SCHEDULE, P-21										DATE		FEB 99																							
APPROPRIATION/BUDGET ACTIVITY						Weapon System		P-1 ITEM NOMENCLATURE																											
3010 PE41318F						CV-22		CV-22																											
		Production Rate			Procurement Leadtimes																														
Item	Manufacturer's Name and Location		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																								
Air Vehicle	Bell-Boeing		4	12	24		6	36	32	38	Each																								
	Patuxent River, MD																																		
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2003						B A L																						
							2002		CALENDAR YEAR 2003						CALENDAR YEAR 2004																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
FY2001 Air Vehicle			4			4						1		1																					
FY2002 Air Vehicle			6			6													1			1			1				1			1			
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2005						FISCAL YEAR 2006						B A L																
							2004		CALENDAR YEAR 2005						CALENDAR YEAR 2006																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
FY2003 Air Vehicle			9			9		1			1	1			1	1	1																		
FY 2004 Air Vehicle			9			9														1		1	1	1	1			1	1	1	1	1	1	1	
FY 2005 Air Vehicle			9			9																													9

FY00 President's Budget										
SIMULATOR AND TRAINING DEVICE JUSTIFICATION (TY\$M)								DATE: FEB 99		
Appropriation/P-1 Line Item Prod 3010				Weapon System CV-22 SOF				Equipment Nomenclature		
Fin Plan	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total	
Quantity		1	1	2	1	0	2	1	8	
Procurement*		22.213	16.727	28.216	23.745	0	26.520	13.260	130.680	
<p>* Procurement costs will be split between USSOCOM (15%) and USAF (85%)</p> <p>The Air Force and Navy will conduct joint training at MCAS New River, NC for all maintenance training and initial V-22 aircrew qualification training. Development of the joint training facility is funded by the Navy. CV-22 SOF-unique aircrew mission training will be conducted at the Special Operations Mission Qualification Schoolhouse at Kirtland AFB, NM. In order to support the CV-22 IOC date of 4QFY04, a CV-22 training capability must be in place by the Sep 02 Ready for Training (RFT) date. Initial training will require a Weapon System Trainer (WST), which has a three year procurement lead time, and an Operational Flight Trainer (OFT), which has a two year procurement lead time. The CV-22 WST will be a 6 degree-of-freedom, full flight simulator that includes day/night/dusk instrument conditions, terrain following/terrain avoidance radar, forward looking infrared sensor, night vision goggle compatibility, and electronic warfare simulation. It will be integrated with the other trainers in the SOF training complex at Kirtland AFB. Delivery of the WST (and OFT) is required by Mar 02 to allow time for installation, integration, shake-down, and initial instructor cadre checkout prior to RFT. The first four CV-22 aircraft will be training assets based at Kirtland AFB; they will deliver between Mar 03 and Sep 03.</p> <p>The CV-22 training facility at Kirtland AFB will include 2 Weapon System Trainers (WST), 1 Operational Flight Trainer (OFT), one Cabin Part Task Trainer (CPTT), and one Training System Support Center (TSSC). Four additional OFTs will be procured for unit level training at SOF air bases. The CPTT will be procured in FY06.</p>										

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (TY\$M) (Page 2)							DATE: FEB 99					
Appropriation/P-1 Line Item Prod 3010			Weapon System CV-22 SOF		IOC Date: 4QFY04		Equipment Nomenclature		PE: 1160404BB			
					Prior Years		FY 1999		FY 2000		FY 2001	
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 1999		FY 2000		FY 2001	
					QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost
Weapon System Trainer (WST)	Kirtland	2QFY02	4QFY02	41			1	22.213				
Operational Flight Trainer (OFT)	Kirtland	2QFY02	4QFY02	41					1	16.727		
OFT-(TSSC Configuration)	Kirtland	2QFY03	3QFY03	N/A *							1	13.260
OFT	Hurlburt	1QFY03	3QFY03	62							1	13.260
WST	Kirtland	2QFY05	3QFY05	41								
OFT	EUCOM	1QFY06	3QFY06	23								
OFT	PACOM	2QFY06	4QFY06	23								
OFT	West Coast	1QFY07	3QFY07	62								
Cabin Part Task Trainer (CPTT)	Kirtland	3QFY07	4QFY08	72								

REMARKS: WST is a full fidelity motion based simulator. OFT is a full fidelity, non-motion based simulator. CPTT is a full scale mock-up of the cabin to train flight engineers in loadmaster/crew chief duties (loading and unloading of the aircraft, hoist operations, cabin rigging for airdrop and paratrooper operations.

USAF is funding 85% of the procurement costs and USSOCOM is funding 15% of procurement costs.

*OFT-TSSC is a support tool for database development, software concurrency modifications and curriculum updates.

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (TY\$M) (Page 3)								DATE: FEB 99				
Training Device by Type				Weapon System CV-22 Special Operations Aircraft								
* Procurement costs will be split between USSOCOM (15%) and USAF (85%)												
<p>The Air Force and Navy will conduct joint training at MCAS New River, NC for all maintenance training and initial V-22 aircrew qualification training. Development of the joint training facility is funded by the Navy. CV-22 SOF-unique aircrew mission training will be conducted at the Special Operations Mission Qualification Schoolhouse at Kirtland AFB, NM. In order to support the CV-22 IOC date of 4QFY04, a CV-22 training capability must be in place by the Sep 02 Ready for Training (RFT) date. Initial training will require a Weapon System Trainer (WST), which has a three year procurement lead time, and an Operational Flight Trainer (OFT), which has a two year procurement lead time. The CV-22 WST will be a 6 degree-of-freedom, full flight simulator that includes day/night/dusk instrument conditions, terrain following/terrain avoidance radar, forward looking infrared sensor, night vision goggle compatibility, and electronic warfare simulation. It will be integrated with the other trainers in the SOF training complex at Kirtland AFB. Delivery of the WST (and OFT) is required by Mar 02 to allow time for installation, integration, shake-down, and initial instructor cadre checkout prior to RFT. The first four CV-22 aircraft will be training assets based at Kirtland AFB; they will deliver between Mar 03 and Sep 03.</p> <p>The CV-22 training facility at Kirtland AFB will include 2 Weapon System Trainers (WST), 1 Operational Flight Trainers (OFT), one Cabin Part Task Trainer (CPTT), and one Training System Support Center (TSSC). Four additional OFTs will be procured for unit level training at SOF air bases.</p>												
Financial Plan	Prior Years		FY 1999		FY 2000		FY 2001		Cost to Complete		Total Cost	
	QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost
HARDWARE												
WST			1	22.213					1	20.492	2	42.705
OFT					1	16.727	1	13.260	3	39.780	5	69.767
TSSC-OFT							1	13.260	0	0.000	1	13.260
CPTT									1	10.360	1	10.360
SUPPORT								1.696		3.253		4.949
TOTAL Costs	0	0	1	22.213	1	16.727	2	28.216	5	73.885	9	141.041

P-40 Advance Procurement

P-40 FOR ADVANCE PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET						DATE FEB 99					
APPROPRIATION/BUDGET ACTIVITY: 3010 AIRCRAFT PROCUREMENT/ SPECIAL OPERATIONS AIRCRAFT						FY00 President's Budget					
						P-1 ITEM NOMENCLATURE CV-22 Special Operation Aircraft					
	PY	FY 98	FY 99	FY 00	FY 01	FY02	FY03	FY04	FY05	TO COMP	TOTAL
Cost (TY\$M)	-	-	-	20.289	27.209	57.329	69.884	55.230	46.944	13.969	290.854
<p>BASIS FOR FY 2000 BUDGET REQUEST: This line item funds long-lead requirements for the CV-22 production program. Airframe/CFE requirements are calculated on a termination liability basis, reflecting contractor's funding requirements for procurement of long lead parts and materials necessary to protect the delivery schedule. Other government furnished equipment (GFE) requirements are determined on a fully funded basis.</p>											

Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)					Date: FEB 99 FY00 President's Budget									
Appropriation (Treas) Code/CC/BA/BSA/Item Control Number Aircraft Procurement, Air Force / 3010 BP10 / BA-1					P-1 Line Item Nomenclature CV-22 Advance Procurement									
Weapon System CV-22			First System (BY1) Award Date FY2000 Advance Procurement for FY01 Production: Feb 00 FY2001 Regular Procurement: Feb 01					Interval Between Systems						
(\$ in Millions)														
	PLT	When Rqd	Prior Years		FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
End Item Qty							4	6	9	9	9	9	4	50
CFE - Airframe	37	Mar-03	N/A				20.124	26.955	56.943	69.487	54.825	46.530	13.779	288.643
GFE														
ARD ADF Ant	30	6 Mos	N/A				0.031	0.048	0.073	0.075	0.076	0.078	0.035	0.416
Notch Filter	18	18 Mos	N/A				0.001	0.002	0.003	0.004	0.004	0.004	0.002	0.020
ARN-147(V)	15	12 Mos	N/A				0.062	0.095	0.145	0.148	0.151	0.155	0.071	0.827
ASQ-215	18	18 Mos	N/A				0.071	0.109	0.166	0.170	0.174	0.177	0.081	0.948
Total AP							20.289	27.209	57.330	69.884	55.230	46.944	13.968	290.854
Description:														
<p>This line item funds long-lead requirements for the CV-22 production program. Airframe/CFE requirements are calculated on a termination liability basis, reflecting contractor's funding requirements for procurement of long-lead parts and materials necessary to protect the delivery schedule. Other government furnished equipment (GFE) requirements are determined on a fully funded basis.</p> <p>FY 02 starts advance procurement for a planned multi-year production contract for FY 03 - FY 07.</p>														

P-1 Shopping List Item No.

Exhibit P-10, Advance Procurement Requirements Analysis

Exhibit P-10 Advance Procurement Requirements Analysis (Page 2 - Budget Justification)						Date: FEB 99 FY00 President's Budget				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number Aircraft Procurement, Air Force / 3010 BP10 / BA-1				Weapon System CV-22		P-1 Line Item Nomenclature CV-22 Advance Procurement				
(TOA, \$ in Millions)										
	BY1 PLT	QPA	UNIT COST	BY1 QTY (BY2 qty) FY2000(FY2001)	BY1 Contract Forecast Date FY2000	BY1 Total Cost Request FY2000	BY2 QTY (BY2 + 1 qty) FY2001	BY2 Contract Forecast Date FY2001	BY2 Total Request FY2001	Cost
End Item										
CFE - Airframe	37			TL for 4	Mar-00	20.124	TL for 6	Mar-01		26.955
TERM LIABILITY										
GFE										
ARD ADF Ant	30					0.031				0.048
Notch Filter	18					0.001				0.002
ARN-147(V)	15					0.062				0.095
ASQ-215	18					0.071				0.109
Total Advance Proc						20.289				27.209
Description: Advance Procurement requirements are calculated on a termination liability basis considering dollars required to procure long-lead parts and materials necessary to build component systems for the V-22 aircraft. GFE is fully funded.										

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BUDGET ITEM JUSTIFICATION SHEET		Date: February 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft	C-37A (Small VCX)	
	FY00 President's Budget	

	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY2001	FY 2002	FY 2003	To Comp	Total
QUANTITY		2	1	4						7
COST (IN millions)		99.1	5.7	160.2						265.0
Initial Spares (in M)		3.8								3.8
Total (in Millions)		102.9	5.7	160.2						268.8
Unit Cost (in M)										

MISSION AND DESCRIPTION:
 The C-37A is a long-range executive passenger jet that will provide worldwide air transportation for the Vice President, cabinet members, congressional delegations, Presidential emissaries, and other high ranking dignitaries of the United States. FY97 funds provide for the procurement of two commercial, off-the-shelf, long-range aircraft as well as missionization of these aircraft. The current C-137 fleet averages 35 years of age, is costly to operate and lacks the performance and safety features common in commercial aircraft. Replacement aircraft are required that offer improved reliability, reduced O&S costs, compliance with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.

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BUDGET ITEM JUSTIFICATION SHEET		Date: February 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft	C-37A (Small VCX)	
	FY00 President's Budget	

	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY2001	FY 2002	FY 2003	To Comp	Total
QUANTITY		2	1	4						7
COST (IN millions)		99.1	5.7	160.2						265.0
Initial Spares (in M)		3.8								3.8
Total (in Millions)		102.9	5.7	160.2						268.8
Unit Cost (in M)										

MISSION AND DESCRIPTION:

The C-37A is a long-range executive passenger jet that will provide worldwide air transportation for the Vice President, cabinet members, congressional delegations, Presidential emissaries, and other high ranking dignitaries of the United States. FY97 funds provide for the procurement of two commercial, off-the-shelf, long-range aircraft as well as missionization of these aircraft. The current C-137 fleet averages 35 years of age, is costly to operate and lacks the performance and safety features common in commercial aircraft. Replacement aircraft are required that offer improved reliability, reduced O&S costs, compliance with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.

FY98 PROGRAM JUSTIFICATION:

FY98 program is for C-37A aircraft procurement for the U.S. Army as directed by the FY98 Defense Appropriation Bill. This will be combined with funds available from FY97 savings and proceeds from the trade-in of an Army C-20 aircraft.

FY99 PROGRAM JUSTIFICATION:

FY99 program is for C-37A aircraft procurement for CINC Air Support (\$39.7M) and for the purchase of three additional aircraft for other agency use as outlined in the FY99 Emergency Supplemental Bill.

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AIRCRAFT COST ANALYSIS EXHIBIT P-5 (Dollars in Millions)	A. Appn/Budget Activity Title/No. Aircraft Procurement Other Aircraft/BA 4	B. Popular Name C-37 (VCX)		C. Manufacturer Boeing Seattle, WA	D. Date Feb-99		
		FY97	QTY 0	FY98	QTY 1	FY99	QTY 4
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
AIRFRAME/CFE		36.1	72.2	N/A	5.7	40.1	160.2
PROPULSION			0.0		0.0		0.0
ENGINE/ACCESSORIES			0.0		0.0		0.0
Eng Model: F-118-GE-100			0.0		0.0		0.0
AVIONICS			0.0		0.0		0.0
WEAPON DELIVERY SYSTEM			0.0		0.0		0.0
OTHER COSTS (ICS)			0.0	0.00	0.0	0.0	0.0
ECO (All Flyaway Components)			0.0		0.0		0.0
NON-RECURRING COSTS			0.0		0.0		0.0
MISSIONIZATION			0.0		0.0		0.0
Subtotal FLYAWAY COSTS		36.1	72.2	0.0	5.7	40.1	160.2
AIRFRAME PGSE (Deferred Logistics)			0.0		0.0		0.0
ENGINE PGSE			0.0		0.0		0.0
AVIONICS PGSE			0.0		0.0		0.0
PECULIAR TRAINING EQUIPMENT			0.0		0.0		0.0
PUBLICATIONS/TECH. DATA			0.0		0.0		0.0
OTHER (ICS)			0.0		0.0		0.0
S/W INVESTMENT			0.0		0.0		0.0
Program Management Admin Reqmt (PMAR)			0.0		0.0		0.0
OTHER (Army Aircraft Source)			26.9		0.0		0.0
Subtotal SUPPORT COST			26.9		0.0		0.0
GROSS P-1 COST			99.1		5.7		160.2
20 LESS: Prior Yr Adv. Proc			0.0		0.0		0.0
21 NET P-1 COST			99.1		5.7		160.2

EXHIBIT P-5

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						A. DATE				
FY00 BES						Feb-99				
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
Aircraft Procurement/BA04, Other Aircraft			C-37							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost (\$M)	Specs Available Now	Specs REV REQ'D	If Yes, when Available
<u>AIR VEHICLE</u>										
FY 99	GulfStream	FFP	ASC/LAAV	TBD	TBD	4	40.1	Yes	No	N/A
FY 98	GulfStream	FFP	ASC/LAAV	Mar-98	Jan-00	1	N/A	Yes	No	N/A
FY 97	GulfStream	FFP	ASC/LAAV	Aug-96	Sep-98	2	36.1	Yes	No	N/A
D. REMARKS:										

EXHIBIT P-5A Procurement History and Planning

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99 : FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft	C-32 (VCX)	

	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY2001	FY 2002	FY 2003	To Comp	Total
QUANTITY			2	2						4
COST (IN millions)			180.8	160.4						
Initial Spares (in M)										
Total (in Millions)			180.8	160.4						341.1
Unit Cost (in M)										

MISSION AND DESCRIPTION:
 The C-32 is a long-range executive passenger jet that will provide worldwide air transportation for the Vice President, cabinet members, Congressional delegations, Presidential emissaries, and other high ranking dignitaries of the United States. These aircraft are being acquired under a FY96 commercial lease-to-purchase contract. The current C-137 fleet averages 35 years of age, is costly to operate and lacks performance and safety/navigation features inherent on modern commercial aircraft. The C-32 provides improved reliability, reduced O&S costs, will incorporate the latest navigation and safety features, and comply with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.

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BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99 : FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft	C-32 (VCX)	

	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY2001	FY 2002	FY 2003	To Comp	Total
QUANTITY			2	2						4
COST (IN millions)			180.8	160.4						
Initial Spares (in M)										
Total (in Millions)			180.8	160.4						341.1
Unit Cost (in M)										

MISSION AND DESCRIPTION:

The C-32 is a long-range executive passenger jet that will provide worldwide air transportation for the Vice President, cabinet members, Congressional delegations, Presidential emissaries, and other high ranking dignitaries of the United States.

FY98/99 PROGRAM JUSTIFICATION:

The FY98/99 program provides funds for the procurement of four C-32A aircraft - Boeing 757-200s. These aircraft are being acquired under a FY96 commercial lease-to-purchase contract. The current C-137 fleet averages 35 years of age, is costly to operate and lacks performance and safety/navigation features inherent on modern commercial aircraft. The C-32 provides improved reliability, reduced O&S costs, will incorporate the latest navigation and safety features, and comply with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.

Communication Upgrades and GATM mods planned beyond FY99.

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AIRCRAFT COST ANALYSIS EXHIBIT P-5 (Dollars in Millions)	A. Appn/Budget Activity Title/No. Aircraft Procurement Other Aircraft/BA 4		B. Popular Name C-32 (VCX)		C. Manufacturer Boeing Seattle, WA		D. Date FEB 99 FY00 President's Budget	
	FY97	QTY 0	FY98	QTY 2	FY99	QTY 2		
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost		
AIRFRAME/CFE		0.0	89.8	179.6	77.5	155.0		
PROPULSION		0.0		0.0		0.0		
ENGINE/ACCESSORIES		0.0		0.0		0.0		
Eng Model: F-118-GE-100		0.0		0.0		0.0		
AVIONICS		0.0		0.0		0.0		
WEAPON DELIVERY SYSTEM		0.0		0.0		0.0		
OTHER COSTS (ICS)		0.0	0.60	1.2	2.7	5.4		
ECO (All Flyaway Components)		0.0		0.0		0.0		
NON-RECURRING COSTS		0.0		0.0		0.0		
MISSIONIZATION		0.0		0.0		0.0		
Subtotal FLYAWAY COSTS	0.0	0.0	90.4	180.8	80.2	160.4		
AIRFRAME PGSE (Deferred Logistics)		0.0		0.0		0.0		
ENGINE PGSE		0.0		0.0		0.0		
AVIONICS PGSE		0.0		0.0		0.0		
PECULIAR TRAINING EQUIPMENT		0.0		0.0		0.0		
PUBLICATIONS/TECH. DATA		0.0		0.0		0.0		
OTHER (ICS)		0.0		0.0		0.0		
S/W INVESTMENT		0.0		0.0		0.0		
Program Management Admin Reqmt (PMAR)		0.0		0.0		0.0		
OTHER		0.0		0.0		0.0		
Subtotal SUPPORT COST		0.0		0.0		0.0		
GROSS P-1 COST		0.0		180.8		160.4		
20 LESS: Prior Yr Adv. Proc		0.0		0.0		0.0		
21 NET P-1 COST		0.0		180.8		160.4		

EXHIBIT P-5

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						A. DATE				
FY00 President's Budget						Feb-99				
B. Appropriation/Budget Activity			C. P-1 Item Nomenclature							
Aircraft Procurement/BA04, Other Aircraft			C-32 (VCX)							
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost (\$M)	Specs Available Now	Specs REV REQ'D	If Yes, when Available
<u>AIR VEHICLE</u>										
FY 98	Boeing Company	FFP	ASC/LAAV	Aug-96	Jun-98	2	89.8	Yes	No	N/A
FY 99	Boeing Company	FFP	ASC/LAAV	Aug-96	Nov-98	2	77.5	Yes	No	N/A
D. REMARKS:										

EXHIBIT P-5A Procurement History and Planning

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FY00 President's Budget					P-1 ITEM NOMENCLATURE													DATE FEB 99																									
					C-32 VCX																																						
Item/Manu Proc Year	S E R V	Proc Qty	Accep Prior to 1 Oct	Bal Due as of 1 Oct	FISCAL YEAR 97													FISCAL YEAR 98													FISCAL YEAR 99												
					CALENDAR YEAR 97													CALENDAR YEAR 98													CALENDAR YEAR 99												
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	L		
C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	T							
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	R							
C-32 VCX																																											
FY 98	AF	2		2																2																							
FY 99	AF	2		2																					2																		
Manufacturer's Name and Location				Production Rates			PROCUREMENT LEAD TIMES													REMARKS:																							
Boeing Aircraft Company				Min	1-8- Ma	rd	Int Reorder						Admin Lead Time			MFG TIME	TOTAL AFTER OCT																										
				Sust		d+																																					
				3 mon	3 mon	d+							3 Mo.			12 Mo	15 Mo.																										
				1																																							

Exhibit P-40, Budget Item Justification							Date February 1999					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft							P-1 Line Item Nomenclature Target Drones (0305116F)					
Program Element for Code B Items: N/A				Other Related Program Elements: Target Sys Develop: 0604258F (RDT&E, AF)								
	Prior Year	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
		A										
Proc Qty	-		-	-	-	-	-	-	-	-	-	-
Gross Cost (\$M)	162.6		23.8	25.6	36.2	37.4	37.7	38.3	48.0	40.1	Continuous	449.7
Initial Spares (\$M)	7.8		0.7	2.6	0.9	0.6	0.7	1.0	1.0	1.0	Continuous	16.3
Total Proc Cost (\$M)	170.4		24.5	28.2	37.1	38.0	38.4	39.3	49.0	41.1	Continuous	466.0
Flyaway Unit Cost (\$M)	-		-	-	-	-	-	-	-	-	-	-
Wpn Sys Proc Unit Cost(\$M)	-		-	-	-	-	-	-	-	-	-	-

Description: The target drones program funds for aerial targets to ensure air to air weapons effectiveness and mission proficiency of Air Force tactical weapon systems. The objective is to improve air to air weapon system accuracy and reliability by developing aerial target systems for Air Force weapons system test and evaluation. This program provides funds for the procurement of full scale (QF-4) and subscale aerial targets required for Congressionally mandated live fire tests.

Note: Prior to FY00, funding was in Missile Procurement

FY00/01 PROGRAM JUSTIFICATION: Procurement funds are for full scale and subscale aerial targets for the AMRAAM, AIM-9, AIM-7 programs; for the F-22 Test Program; and for all fighter aircraft operational flight program upgrades.

- QF-4: Procurement funds are for QF-4 full-scale aerial targets (12 each in FY99 & FY00 and 18 each in FY01 - FY05) required to meet existing development and operational test requirements.
- BQM-34: Procurement funds are for BQM-34 target drones (8 in FY99, 37 in FY00 and 15 in FY01) required to meet test and training requirements.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/ SERIES/POPULAR NAME	C. MANUFACTURERS NAME/ PLANT CITY/STATE LOCATION	D. DATE					
	Aircraft Procurement, Air For Budget Activity 04, Other Aircraft	Target Drones (0305116F)	Teledyne Ryan, San Diego, CA	February 1999					
	TOTAL COST IN MILLIONS OF DOLLARS								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY98		FY99		FY00		FY01	
		UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST
USAF SSATs	A								
Flyaway Cost									
BQM-34 SSAT									
1. Airframes		0.838	(7) 5.866	0.838	(8) 6.703	0.525	(37) 19.425	0.650	(15) 9.750
2. ECO							0.350		0.430
3. GFE									
Engines		0.022	(7) .154	0.022	(8) .176	0.022	(37) .814	0.022	(15) .330
IFF (L-Band) Transponders		0.002	(7) .014	0.002	(8) .016	0.002	(37) .078	0.002	(15) .031
Locator Beacons		0.002	(7) .014	0.002	(8) .016	0.002	(37) .085	0.002	(15) .035
DUAL ROLE SSAT ST/STE								1.000	(6) 6.000
DUAL ROLE SSAT RECUR									
Subtotal SSAT Hardware			6.048		6.912		20.752		16.576
Nonrecurring and Ancillary Cost			N/A		N/A		N/A		N/A
Total SSAT Flyaway			6.048		6.912		20.752		16.576

P-1 Line

Page 1 of 4 Pages

Exhibit P-5 Program Cost Breakdown

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Aircraft Procurement, Air For Budget Activity 04, Other Aircraft, Item No. 7	B. WEAPON MODEL/ SERIES/POPULAR NAME Target Drones (0305116F)	C. MANUFACTURERS NAME/ PLANT CITY/STATE LOCATION Teledyne Ryan, San Diego, CA		D. DATE February 1999					
	ELEMENT OF COST	IDENT CODE	TOTAL COST IN MILLIONS OF DOLLARS							
			FY98		FY99		FY00		FY01	
			UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST
Command and Launch Equipment			0.000		0.000		0.000		0.000	
SSAT Support Cost										
1. Data/Tech Manuals			0.000		0.614		0.000		0.000	
2. First Article Acceptance Testing			0.000		0.500		0.000		0.000	
3. AFSAT FQT Testing									0.150	
4. Government Support										
Range Systems Support-Drone Control Software			0.000		0.150		0.300		0.300	
On site support at Redstone Arsenal			0.134		0.157		0.159		0.000	
Other Technical Support			0.414		0.858		0.865		0.755	
Other			0.124		0.136		0.335		0.271	
5. Interim Maint Supp for VDOPS			0.500		0.770		0.000		0.000	
Subtotal SSAT Support			1.172		3.185		1.659		1.476	
Net P-1 Full Funding Cost			7.220		10.097		22.411		18.052	
Other Non P-1 Weapon Systems Cost			0.000		0.000		0.000		0.000	
Initial Spares			0.000		0.683		0.885		0.604	
Total SSAT Procurement Funding			7.220		10.780		23.296		18.656	
Total SSAT Program			7.220		10.780		23.296		18.656	

P-1 Line

Page 2 of 4 Pages

Exhibit P-5 Program Cost Breakdown

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/ SERIES/POPULAR NAME		C. MANUFACTURERS NAME/ PLANT CITY/STATE LOCATION		D. DATE		
	Aircraft Procurement, Air For Budget Activity 04, Other Aircraft		Target Drones (0305116F)		Tracor; Austin, TX		February 1999		
	WEAPON SYSTEM COST ELEMENTS	IDENT CODE	TOTAL COST IN MILLIONS OF DOLLARS						
FY98			FY99		FY00		FY01		
		UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST
QF-4	A								
Flyaway Cost									
QF-4 Hardware-Recurring									
1. Aircraft Drone Mod & Integ		0.631	(11) 6.941	0.616	(12) 7.393	0.630	(12) 7.558	0.614	(18) 11.053
2. Scoring System (VDOPS)			NSP		NSP		NSP		NSP
3. F-4 In Plant Repairs			0.227		0.252		0.256		0.391
4. Environ Stress Test of Destruct Units			NSP		NSP		NSP		NSP
5. Engineering Change Orders			1.291		0.978		0.958		1.169
6. Warranty			0.183		0.186		0.189		0.193
7. Aircraft Withdrawal/AMARC									
Restricted Manned Perf to 3G		0.235	(3) .705	0.239	(8) 1.912	0.243	(12) 2.915	0.247	(18) 4.454
Unrestricted Manned Perf to 6G		0.695	(8) 5.560	0.750	(4) 3.000				
8. MILSTRIP RSD			0.150		0.150		0.150		0.200
9. MILSTRIP EOQ			0.200		0.200		0.200		0.300
Subtotal QF-4 Hardware			15.257		14.071		12.226		17.760
Nonrecurring and Ancillary Cost			N/A		N/A		N/A		N/A
Total QF-4 Flyaway			15.257		14.071		12.226		17.760

P-1 Line

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/ SERIES/POPULAR NAME		C. MANUFACTURERS NAME/ PLANT CITY/STATE LOCATION		D. DATE			
	Aircraft Procurement, Air For Budget Activity 04, Other Aircraft, Item No. 7		Target Drones (0305116F)		Tracor; Austin, TX		February 1999			
	ELEMENT OF COST	IDENT CODE	TOTAL COST IN MILLIONS OF DOLLARS							
			FY98		FY99		FY00		FY01	
UNIT COST			QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	UNIT COST	QTY TOTAL COST	
Command and Launch Equipment			0.000		0.000		0.000		0.000	
QF-4 Support Cost										
1. Pecular Support Equipment (PSE)			0.000		0.000		0.000		0.000	
2. PSE Warranty			0.000		0.000		0.000		0.000	
3. Data/Tech Manuals			0.054		0.056		0.057		0.059	
4. On Call Engineering Support			0.025		0.016		0.016		0.017	
5. Prime Contractor Technical Spt			0.121		0.123		0.125		0.127	
6. Electronic Countermeasure Pods			0.000		0.000		0.000		0.000	
7. Government Support			1.164		1.219		1.317		1.433	
8. Range Systems Support-Drone Soft Supp			0.000		0.000		0.000		0.000	
Subtotal QF-4 Support			1.364		1.414		1.515		1.636	
Net P-1 Full Funding Cost			16.621		15.485		13.741		19.396	
Other Non P-1 Weapon Systems Cost			0.000		0.000		0.000		0.000	
Initial Spares			0.726		1.878		0.000		0.000	
Total QF-4 Procurement Funding			17.347		17.363		13.741		19.396	
Total QF-4 Program			17.347		17.363		13.741		19.396	

P-1 Line

Page 4 of 4 Pages

Exhibit P-5 Program Cost Breakdown

Exhibit P-5a, Procurement History and Planning							Weapon System			DATE:	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature			February 1999	
Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft							Target Drones (0305116F)				
WBS COST ELEMENTS	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD AND TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW?	DATE REVISIONS AVAILABLE?	
QF-4											
Aircraft Mod											
	FY98	11	1.401	AAC/WRA	FFP	TRACOR: Austin, TX	APR 98	JUN 98	YES		
	Option FY99	12	1.170	AAC/WRA	FFP	"	DEC 98	JUN 99	YES		
	Option FY00	12	0.980	AAC/WRA	FFP	"	DEC 99	JUN 00	YES		
	Option FY01	18	1.008	AAC/WRA	FFP	"	DEC 00	JUN 01	YES		
Note: FY98 Begins a New Production Contract											
BQM-34 SSAT											
	FY98	7	0.865	AAC/WRA	FFP	Teledyne, San Diego, CA	MAR 99	SEP 00	NO		
	FY99	8	0.865	AAC/WRA	FFP	Teledyne, San Diego, CA	MAR 99	NOV 00	NO		
	Option FY00	37	0.561	AAC/WRA	FFP	Teledyne, San Diego, CA	OCT 00	JAN 01	NO		
	Option FY01	15	0.789	AAC/WRA	FFP	Teledyne, San Diego, CA	OCT 01	JAN 02	NO		
DUAL ROLE SSAT (AFSAT)											
	FY01	6*	1.000	AAC/WRA	FFP	TBD	NOV 00	NOV 01	NO		
	Option FY02	22	0.690	AAC/WRA	FFP	TBD	MAR 02	JUN 03	NO		
* First Articles, 2 from each competing vendor											

P-1 Shopping List

EXHIBIT P-5a, Procurement History and Planning
(Exhibit P-5a, page 1 of 1)

Exhibit P-5a, Procurement History and Planning							Weapon System			DATE:	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature			February 1999	
Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft							Target Drones (0305116F)				
WBS COST ELEMENTS	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD AND TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW?	DATE REVISIONS AVAILABLE?	
QF-4											
Aircraft Mod											
	FY98	11	1.401	AAC/WRA	FFP	TRACOR: Austin, TX	APR 98	JUN 98	YES		
	Option FY99	12	1.170	AAC/WRA	FFP	"	DEC 98	JUN 99	YES		
	Option FY00	12	0.980	AAC/WRA	FFP	"	DEC 99	JUN 00	YES		
	Option FY01	18	1.008	AAC/WRA	FFP	"	DEC 00	JUN 01	YES		
Note: FY98 Begins a New Production Contract											
BQM-34 SSAT											
	FY98	7	0.865	AAC/WRA	FFP	Teledyne, San Diego, CA	MAR 99	SEP 00	NO		
	FY99	8	0.865	AAC/WRA	FFP	Teledyne, San Diego, CA	MAR 99	NOV 00	NO		
	Option FY00	37	0.561	AAC/WRA	FFP	Teledyne, San Diego, CA	OCT 00	JAN 01	NO		
	Option FY01	15	0.789	AAC/WRA	FFP	Teledyne, San Diego, CA	OCT 01	JAN 02	NO		
DUAL ROLE SSAT (AFSAT)											
	FY01	6*	1.000	AAC/WRA	FFP	TBD	NOV 00	NOV 01	NO		
	Option FY02	22	0.690	AAC/WRA	FFP	TBD	MAR 02	JUN 03	NO		
* First Articles, 2 from each competing vendor											

P-1 Shopping List

UNCLASSIFIED

DATE:
FEB 99

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE

AIRCRAFT PROCUREMENT, AF/BA04, OTHER AIRCRAFT Joint STARS

	PRIOR YEARS	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TOTAL
QUANTITY	8	2	1	2	1	0	0	0	0	0	14
COST (in Millions) (BP10)	1677.7	387.9	302.6	459.6	280.2	11.5	12.5	0.0	0.0	0.0	3132.1
Initial Spares (in Millions)	147.3	0.0	35.3	68.0	73.7	117.9	4.9	7.4	8.8	0.6	463.9
Total (in Millions) (BP10/16)	1825.0	387.9	337.9	527.6	354.0	129.4	17.4	7.4	8.8	0.6	3596.1
Flyaway Unit Cost (in \$M)*	247.8	235.0	301.0	247.8	268.9	N/A	N/A	N/A	N/A	N/A	

MISSION AND DESCRIPTION:

The Joint Surveillance Target Attack Radar System (Joint STARS) is a Joint Army and AF Program, with the AF as the lead service. The Joint STARS system provides real time surveillance of the battlefield and rear echelons. The system detects, identifies, and tracks enemy armor and vehicular traffic and provides their locations to AF and Army Commanders to assess intentions and manage primary segments (airborne and ground). Joint STARS is unique because it is a closed loop system for real time detection, tracking and attack of enemy ground moving targets, using moving target indicator and synthetic aperture radar techniques. Joint STARS integrates the accurate attack of enemy forces by providing position updates and precise enemy location in real time to direct attack aircraft, friendly artillery and standoff missiles. The Army Corps Commander requires wide area surveillance information to understand enemy force buildups and scheme of maneuver, in order to apply effective and timely maneuver of forces, battlefield management, and targeting of artillery and rockets. There is no other system planned to provide real time wide area surveillance of the Corps battlefield, closed loop target detection and tracking and real time attack targeting against first and second echelon armor. Joint STARS provides a two to five day advanced look at enemy second echelon targets. Detection, tracking, and targeting capability aids direct attack aircraft, artillery, and standoff missiles against moving ground targets in real time.

FY00 PROGRAM JUSTIFICATION: Procure 1 aircraft and associated support.

* This unit cost is a computation of Total Flyaway divided by the quantity.

The above Aircraft Buy Schedule and funding reflect the FY00 PB Position.

P-40 FOR ADVANCED BUY

BUDGET ITEM JUSTIFICATION SHEET											DATE: Feb-99
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE						
AIRCRAFT PROCUREMENT (ADV BUY) , AF/BA04, OTHER AIRCRAFT					Joint STARS						
	PRIOR YEARS	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TOTAL
QUANTITY											0
COST (in Millions)	643.0	144.1	18.0	35.9	0.0	0.0	0.0	0.0	0.0	0.0	841.0
MISSION AND DESCRIPTION:											
<p>The Joint Surveillance Target Attack Radar System (Joint STARS) is a Joint Army and AF Program, with the AF as the lead service. The Joint STARS system provides real time surveillance of the battlefield and rear echelons. The system detects, identifies, and tracks enemy armor and vehicular traffic and provides their locations to AF and Army Commanders to assess intentions and manage primary segments (airborne and ground). Joint STARS is unique because it is a closed loop system for real time detection, tracking and attack of enemy ground moving targets, using moving target indicator and synthetic aperture radar techniques. Joint STARS integrates the accurate attack of enemy forces by providing position updates and precise enemy location in real time to direct attack aircraft, friendly artillery and standoff missiles. The Army Corps Commander requires wide area surveillance information to understand enemy force buildups and scheme of maneuver, in order to apply effective and timely maneuver of forces, battlefield management, and targeting of artillery and rockets. There is no other system planned to provide real time wide area surveillance of the Corps battlefield, closed loop target detection and tracking and real time attack targeting against first and second echelon armor. Joint STARS provides a two to five day advanced look at enemy second echelon targets. Detection, tracking, and targeting capability aids direct attack aircraft, artillery, and standoff missiles against moving ground targets in real time.</p> <p>The Advanced Buy funding identified is for long lead procurement of those items detailed on the P-10.</p>											
NOTES:											
The above Aircraft Buy Schedule and funding reflect the FY00 PB Position .											
FY97 Advance Buy funds include funding for Lot VI (P11) and Lot VII (P12 & P13).											
FY98 Advance Buy funding of \$18.0M is for procurement of long-lead aircraft parts as detailed on the P10 exhibit.											
FY99 Advance Buy funds Lot VIII (P14) .											
* This unit cost is a computation for Advance Buy Debit divided by the quantity. FY95 unit cost has the \$85.5M appropriated in FY95 PBD 632 for purchase of aircraft platforms.											

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Popular Name		C. Manufacturer		D. Date	
	AIRCRAFT PROCUREMENT AF/BA04/OTHER AIRCRAFT		Joint STARS		Northop Grumman Corporation Melbourne Systems Division Melbourne, FL		Feb-99	
	FY97	QTY 2	FY98	QTY 1	FY99	QTY 2	FY00	QTY 1
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. AIRFRAME	134.5	269.1	153.2	153.2	143.2	286.4	121.4	121.4
2. AVIONICS: CFE	58.7	117.3	73.1	73.1	60.8	121.5	87.5	87.5
GFE	3.3	6.6	4.5	4.5	2.6	5.2	5.2	5.2
3. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. ECO (ALL FLYAWAY COMPONENTS)	0.0	0.0	0.6	0.6	0.1	0.2	0.8	0.8
6. NON-RECURRING COSTS	8.8	17.5	16.0	16.0	9.6	19.1	0.0	0.0
7. OTHER COSTS	29.8	59.6	53.6	53.6	31.7	63.3	54.0	54.0
8. FLYAWAY COSTS	235.0	470.0	301.0	301.0	247.8	495.7	268.9	268.9
9. AIRFRAME PGSE								
10. ENGINE PGSE								
11. AVIONICS PGSE		4.4		3.1		5.3		0.0
12. PECULIAR TRAINING EQUIPMENT		9.6		4.6		6.1		0.0
13. PUBLICATIONS/TECH. DATA		6.0		10.4		5.9		2.4
14. PGM MGMT ADMIN. (PMA) REQ.		0.0		24.7		27.3		14.5
15. OTHER		26.4		25.6		34.5		30.3
16. SUPPORT COST		46.4		68.5		79.1		47.2
17. GROSS P-1 COST	235.0	516.4	301.0	369.6	247.8	574.8	268.9	316.2
18. LESS: PRIOR YR ADV. PROC.		-128.5		-67.0		-115.2		-35.9
19. NET P-1 COST	235.0	387.9	301.0	302.6	247.8	459.6	268.9	280.3
20. PLUS: CURRENT YR ADV. PROC.		144.1		18.0		35.9		0.0
21. PLUS: INITIAL SPARES		0.0		35.3		68.0		73.7
22. PLUS: MODS (BP11)						44.1		28.6
23. TOTAL	235.0	532.0	301.0	355.9	247.8	607.6	268.9	382.5

NOTES:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)								A. DATE: FEB 99		
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT, AF/BA04/OTHER AIRCRAFT				C. P-1 ITEM NOMENCLATURE Joint STARS						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIRFRAME										
FY97	GRUMMAN/MELBOURNE	SS/FP	ESC/JSK	JUN 97	FY00	2	235.0	YES	YES	ONGOING
FY98	GRUMMAN/MELBOURNE	SS/FPI	ESC/JSK	MAY 98	FY01	1	301.0	YES	YES	ONGOING
FY99	GRUMMAN/MELBOURNE	SS/FPI	ESC/JSK	APR 99	FY02	2	247.8	YES	YES	ONGOING
FY00	GRUMMAN/MELBOURNE	SS/FPI	ESC/JSK	DEC 99	FY 03	1	268.9	YES	YES	ONGOING
SUPPORT										
FY97	GRUMMAN/MELBOURNE	SS/FP	ESC/JSK	NOV 96	*	N/A	N/A	YES	YES	ONGOING
FY98	GRUMMAN/MELBOURNE	SS/FP	ESC/JSK	NOV 97	*	N/A	N/A	YES	YES	ONGOING
FY99	GRUMMAN/MELBOURNE	SS/FP	ESC/JSK	NOV 98	*	N/A	N/A	YES	YES	ONGOING
FY00	GRUMMAN/MELBOURNE	SS/FP	ESC/JSK	NOV 99	*	N/A	N/A	YES	YES	ONGOING

NOTE: FIRST EIGHT AIRCRAFT WILL BE ON A LOW RATE INITIAL PRODUCTION (LRIP) CONTRACT (REFERENCE UNDER SECRETARY OF DEFENSE (A&T) MEMORANDUM JOINT STARS (JSTARS) PRODUCTION (U) JUN 15, 1995).

* Support Cost consists of items such as PSE, CSE, Training. Date of first delivery will be lead time to support A/C delivery schedule

FY00 Estimated PB Production Schedule		Exhibit P-21			P-1 ITEM NOMENCLATURE: Joint STARS													DATE: FEB 99					L A S T E R																														
Item/Manufacturer/ FY99 BES Database PE: 27581F BPAC:	S E R V I C E S Q T Y	ACCEP T I O N P R I O R T O O C T	BAL D U E A S O F O C T	FISCAL YEAR 98													FISCAL YEAR 99					FISCAL YEAR 00																															
				CALENDAR YEAR 98													CALENDAR YEAR 99					CALENDAR YEAR 00																															
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S													
JSTARS/GRUMMAN																																																					
FY93	AF	2	2	0																																																	
FY94	AF	2	0	2		1																	1																														
FY95	AF	2	0	2																				1																													
FY96	AF	2	0	2																						1																											
FY97	AF	2	0	2																										1																							
FY98	AF	1	0	1																																																	
FY99	AF	2	0	2																																																	
FY00	AF	1	0	1																																																	
FY01	AF																																																				
FY02	AF																																																				
TOTAL		14	2	12																																																	
MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES		RD MD D+	INIT REORDER	PROCUREMENT LEAD TIMES													MFG TIME	TOTAL AFTER 1 OCT	REMARKS:																																	
Northop Grumman Corporation PO Box 9650 Melbourne FL 32902	MIN	1-8-5			MAX	ADMIN LEAD TIME					MFG TIME					REMARKS:																																					
	SUST					PRIOR 1 OCT	AFTER 1 OCT																																														

WEAPON SYSTEM ADVANCE PROCUREMENT EXHIBIT (P-10) (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)				PRIOR YEAR FOR FISCAL YEAR PROGRAM: FY 1997 for FY 1998 & FY 1999		
				Date	FEB 99	
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Production Lead Time in Months (Admin/Prod) - Total	Unit Cost	Total Cost
BASIC CONTRACT EFFORT	1.0	Dec-96 (P11)	FY01	12	55.9	55.9
	2.0	Oct 97 (P12,13)	FY02	(5/12) 17	34.1	68.1
OVER AND ABOVE MODIFICATIONS	1.0	Dec-96 (P11)	FY01	12	7.8	7.8
	2.0	Oct-97 (P12,13)	FY02	(5/12) 17	2.2	4.4
CONFIGURATION UPDATE	1.0	Dec-96 (P11)	FY01	12	2.0	2.0
	2.0	Oct-97 (P12,13)	FY02	(5/12) 17	2.0	4.0
SUBTOTAL					104.0	142.2
EOQ (MYP):						
LONG-LEAD AIRCRAFT PARTS (Service Bulletins & Airworthiness Directives)	Various	Sep-97	NLT Sep 98	N/A	N/A	1.9
SUBTOTAL					N/A	1.9
TOTAL					N/A	144.1
<p>NARRATIVE DESCRIPTION: The Joint STARS Production Process has required approximately a 45 month cycle (for a singular aircraft buy) and approximately a 52 month cycle (for a 2 aircraft lot-buy). The funding associated with each lot is active for 3 years thus Advance Buy Funding is required to complete either the 45 or 52 month production cycle. The two major long lead items for the Joint STARS program are aircraft refurbishment/modification and electronics. The other item included in the Advance Buy funding is for configuration update activities.</p>						

WEAPON SYSTEM ADVANCE PROCUREMENT EXHIBIT (P-10) (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)				PRIOR YEAR FOR FISCAL YEAR PROGRAM: FY 1998 for FY 1999		
				Date	FEB 99	
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Production Lead Time in Months (Admin/Prod) - Total	Unit Cost	Total Cost
BASIC CONTRACT EFFORT	2.0	Jan 99 (P12,13)	FY02	(5/12) 17	1.9	3.7
SUBTOTAL					1.9	3.7
EOQ (MYP)						
LONG-LEAD AIRCRAFT PARTS (Wing Planks)	Various	Mar & Apr 98	Nov 99	N/A	N/A	14.3
SUBTOTAL					0.0	14.3
TOTAL					N/A	18.0
<p>NARRATIVE DESCRIPTION: The Joint STARS Production Process has required approximately a 45 month cycle (for a singular aircraft buy) and approximately a 52 month cycle (for a 2 aircraft lot-buy). The funding associated with each lot is active for 3 years thus Advance Buy Funding is required to complete either the 45 or 52 month production cycle. The two major long lead items for the Joint STARS program are aircraft refurbishment/modification and electronics. The other item included in the Advance Buy funding is for configuration update activities.</p>						

WEAPON SYSTEM ADVANCE PROCUREMENT EXHIBIT (P-10) (PROCUREMENT OF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)				CURRENT YEAR FOR FISCAL YEAR PROGRAM:		
				FY 1999 for FY 2000		
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Date	Unit Cost	Total Cost
				Production Lead Time in Months (Admin/Prod) - Total		
BASIC CONTRACT EFFORT	1.0	Mar 99 (P14)	FY 03	(5/12) 17	30.4	30.4
OVER AND ABOVE MODIFICATIONS	1.0	Mar 99 (P14)	FY 03	12	3.5	3.5
CONFIGURATION UPDATE	1.0	Mar 99 (P14)	FY 03	12	2.0	2.0
SUBTOTAL					35.9	35.9
SUBTOTAL					0.0	0.0
TOTAL					N/A	35.9
<p>NARRATIVE DESCRIPTION: The Joint STARS Production Process has required approximately a 45 month cycle (for a singular aircraft buy) and approximately a 52 month cycle (for a 2 aircraft lot-buy). The funding associated with each lot is active for 3 years thus Advance Buy Funding is required to complete either the 45 or 52 month production cycle. The two major long lead items for the Joint STARS program are aircraft refurbishment/modification and electronics. The other item included in the Advance Buy funding is for configuration update activities.</p>						

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET

P-40

DATE:

Jan 99

APPROPRIATION/BUDGET ACTIVITY

AIRCRAFT PROCUREMENT, AIR FORCE

P-1 ITEM NOMENCLATURE

HAE UAV PROGRAM

Program Element for Code B Items:

0305205F

Other Related Program Elements

*** SEE NOTE BELOW**

	Prior Years	ID Code	FY1998	FY1999	FY2000	FY 2001	FY 2002	FY2003	FY2004	FY2005	To Complete	Total Program
Proc Qty						0	1	3	3	4	Continuing	Continuing
Total Proc Cost						31.466	51.346	81.178	83.308	85.006	Continuing	Continuing
Flyaway U/C												

NOTE: OTHER RELATED PROGRAM ELEMENTS: Funding prior to FY01 was contained in PE 0305205D, Procurement, Defense Wide.

Description: The High Altitude Endurance (HAE) Unmanned Aerial Vehicle (UAV) system consists of two types of air vehicles, the Conventional HAE (CONV HAE) - Global Hawk and the Low Observable HAE (LO HAE) UAV - DarkStar, and a Common Ground Segment (CGS) which is interoperable with both types of air vehicles. The production mix of Global Hawk and DarkStar UAVs will be made after concluding testing and demonstration. The Global Hawk and the DarkStar will provide continuous, all weather, day/night, wide area reconnaissance and surveillance in direct support of the Joint Forces Commander. The system consists of aircraft, sensors, communications and interfaces to theater systems to support the Joint Forces Commander and tactical warfighters at various levels of command. These two aircraft will be fully autonomous, high altitude, long endurance unmanned aircraft directly responsive to Theater force tasking. The aircraft will integrate with the existing tactical airborne reconnaissance architectures for mission planning, data processing, exploitation, and dissemination.

NOTE: No P-5 or P-5A exhibits are included. The HAE UAVs are currently in the military utility demonstration phase of an Advanced Concept Technology Demonstration (ACTD), which will be complete in Dec 99. No acquisition decision will be made until the ACTD is complete. Production funding is included to provide a bridge during the transition from the ACTD to production. Numbers of air vehicles and delivery schedule in the P21 exhibit are notional until reaching an acquisition decision.

P-1 SHOPPING LIST

ITEM NO

PAGE NO

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET										DATE:	
P-40										Feb 1999	
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE						
AIRCRAFT PROCUREMENT, AIR FORCE					PREDATOR UNMANNED AERIAL VEHICLE						
Program Element for Code B Items:					Other Related Program Elements						
0305205F					0207245F						
	Prior Years	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY2005	Total Program
SYSTEM QUANTITY			2	1	1	0	0	0	0	0	4
QUANTITY ATTRITION AV			8	11	0	6	5	7	7	7	51
TOTAL QUANTITY AV			20	15	3	6	5	7	7	7	70
Total (\$M)			\$135.753	\$114.167	\$38.003	\$22.648	\$20.024	\$27.171	\$27.884	\$28.453	
Unit Cost (\$M)											

Note: Total quantities in FY98 and FY01 adjusted to match Air Force database. Actual quantity in FY98 was 16; projected quantity in FY01 is 5. P-40, P-21 and database will be reconciled when database is accessible.

The Predator Medium Altitude Endurance (MAE) Unmanned Aerial Vehicle was acquired as an ACTD program using non-developmental technologies in response to an urgent requirement identified by the Joint Chiefs of Staff in July 1993, for a long dwell (24 hour plus coverage of a target beyond line-of-sight), autonomous, unmanned, reconnaissance system capable of operating over the horizon while providing real-time intelligence information to the Joint Task Force Commander. The air vehicle carries electro-optical (EO), Infra-Red (IR), and synthetic aperture radar (SAR) sensors, and is capable of transmitting near real time imagery to the task force commander throughout the operational theater. The system is compatible with the current C4I architecture. A total of 12 systems are being procured. Each system consists of four air vehicles, one Ground Control Station (GCS), one Trojan Spirit II* communications suite and associated ground support equipment. Six GCS, three Trojan Spirits and twenty-one air vehicles (of which two were combat losses) with various payloads were acquired during the ACTD RDT&E program. The system is operational and is deployed to the Bosnia theater of operation in support of the peace keeping operations. Based on the operations performance, and maturity of the system, the Joint Staff has concluded that the Predator System provides significant military utility. The approved ORD identifies requirements for system growth. A block upgrade program has been developed to meet those requirements. The Predator Program has been restructured as it transitioned from an ACTD to an acquisition program. This restructure was accomplished in support of the user to focus funding to address reliability and maintainability issues. The contracting strategy is to integrate Total System Performance Responsibility (TSPR) using General Atomics -ASI as the prime contractor to coordinate and implement hardware and engineering requirements. Procurement funding includes system production, production support, engineering services, acceptance testing and evaluation, Interim Logistics Contractor Support, contractor field support, and Integrated Logistics Support. FY97 funding bought two complete systems; six additional replacement air vehicles; SARs, Ku-Band Data Links, Trojan Spirit IIs to bring original ACTD systems up to the operational configuration. (NOTE: the original ACTD systems only had three air vehicles, (operational systems have four); and did not include all SARs, Trojan Spirits and logistics required.)

FY2000 procures one system, cut-in and retrofit of Block 1 preplanned product improvements (GCS communications for combined Red/Black, Tactical Control Systems, Air Force Mission, Support System integration and reliability/maintainability improvements).

FY2001 funding supports the procurement of six attrition air vehicles and completes retrofit of Block 1 P3I.

* Systems 7-12 will be equipped with the Tri-band Field Terminal communications system instead of the Trojan Spirit II.

NOTE: Deliveries of air vehicles were respread following BES funding reductions to maintain minimum sustainable production rate.

CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS							DATE:		
P-5							Feb 99		
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE/SUBHEAD					
Aircraft Procurement, Air Force				Predator Unmanned Aerial Vehicle					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS						
			Prior Years	FY 1998		FY 1999		FY 2000	
			Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
	<u>Predator Systems</u>								
	System: Air Vehicles, Data Links, SARs, Ground Control Stations, Trojan Spirits*				91.164		82.491		24.229
	P3I				12.338		12.474		4.106
	Production Support				3.761		3.970		4.050
	Interim Contractor Logistics Support				6.100		0.000		0.000
	Integrated Logistics Support*				22.390		15.232		5.618
	Other								
	*Integrated Logistics Support includes Spares.								
			0		135.753		114.167		38.003

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P-1 SHOPPING LIST
ITEM NO.

CLASSIFICATION:

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System				DATE: Feb 99				
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force				ID Code A		P-1 ITEM NOMENCLATURE/SUBHEAD Predator Unmanned Aerial Vehicle						
COST CODE	ELEMENT OF COST											
		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		Total Costs
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
	<u>Predator Systems</u>											
	System: Air Vehicles, Data Links, SARs, Ground Control Stations, Trojan Spirits		19.621		18.843		25.982		26.688		27.269	
	P3I		2.384		0.500		0.400		0.350		0.300	
	Production Support		0.470		0.480		0.490		0.500		0.520	
	Interim Contractor Logistics Support		0.000		0.000		0.000		0.000		0.000	
	Integrated Logistics Support		0.173		0.201		0.299		0.346		0.364	
	Note: The FY2001-2005 funding includes no additional systems, but does include additional attrition Air Vehicles.											
			22.648		20.024		27.171		27.884		28.453	0

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System Predator UAV		A. DATE Feb 99			
B. APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force					C. P-1 ITEM NOMENCLATURE Predator Unmanned Aerial Vehicle					SUBHEAD
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
<u>Predator</u>										
<u>FY98</u>										
Systems	2	N/A	PEO(CU) - UAV JPO		SS/FFP	General Atomics	Mar 98	Oct 99	Yes	
Attrition Reserve Vehicle	8	N/A	PEO(CU) - UAV JPO		SS/FFP	General Atomics	Dec 98	Jul 99	Yes	
SAR Payload	17	N/A	CECOM		SS/FFP	Northrop Grumman	Feb 98	Sep 99	Yes	
Trojan Spirit II	2	N/A	CECOM		CP/FFP	Electro Space Sys., Inc.	Jan 98	Aug 99	Yes	
<u>FY99</u>										
Systems	1	N/A	ASC/RAKB		SS/FFP	General Atomics	Jan 99	May 01	Yes	
SAR Payload	8	N/A	CECOM		SS/FFP	Northrop Grumman	Jan 99	May 00	Yes	
Trojan Spirit II	2	N/A	CECOM		SS/FFP	Electro Space Sys., Inc.	Jan 99	Apr 00	Yes	
Attrition Reserve Vehicle	11	N/A	ASC/RAKB		SS/FFP	General Atomics	Jan 99	Sep 00	Yes	
<u>FY00</u>										
Systems	1	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Jan 00	Aug 02	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan-00	Nov-00	Yes	
Trojan Spirit II	2	N/A	CECOM		CP/FFP	Electro Space Sys., Inc. Richardson TX	Jun 00	Apr 01	Yes	
<u>FY01</u>										
Attrition Air Vehicles	6	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Dec 00	Oct-02	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan-01	Nov 01	Yes	
D. REMARKS										
<p>1. A system is comprised of four air vehicles, one Ground Control Station (GCS), and one Trojan Spirit. Trojan Spirits will be procured separately under a contract with Electro Space Systems, Inc. The SAR will be procured separately under a contract with Northrop Grumman (3 SARs per system).</p> <p>2. The FY98 and FY99 procurements include attrition air vehicles as well as system air vehicles.</p>										

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System Predator UAV		A. DATE Feb 99			
B. APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force					C. P-1 ITEM NOMENCLATURE Predator Unmanned Aerial Vehicle				SUBHEAD	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
<u>Predator</u>										
<u>FY02</u>										
Attrition Air Vehicles	5	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Dec 01	Jul 03	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan 02	Nov 02	Yes	
<u>FY03</u>										
Attrition Air Vehicles	7	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Dec 02	Apr 04	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan 03	Nov 03	Yes	
<u>FY04</u>										
Attrition Air Vehicles	7	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Dec 03	Mar 05	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan 04	Nov 04	Yes	
<u>FY05</u>										
Attrition Air Vehicles	7	N/A	ASC/RAKB		SS/FFP	General Atomics ASI - San Diego	Dec 04	Jan 06	Yes	
SAR Payload	5	N/A	CECOM		SS/FFP	Northrop Grumman Baltimore, MD	Jan 05	Nov 05	Yes	
D. REMARKS										
1. See note 1 previous page										

FY 1999/00 BUDGET PRODUCTION SCHEDULE, P-21						DATE February 1999																									
APPROPRIATION/BUDGET ACTIVITY						Weapon System						P-1 ITEM NOMENCLATURE																			
Aircraft Procurement, Air Force						Predator Unmanned Aerial Vehicle																									
		Production Rate				Procurement Leadtimes																									
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
Tri-band Field Terminal	L3Comm						1-8-5																								
	Salt Lake City UT																														
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												B A L												
							CALENDAR YEAR 2000																								
							1999																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Tri-band Field Terminal		98	F	2	1	1	1																								0
Tri-band Field Terminal		99	F	2	0	2							1																	1	0
Tri-band Field Terminal		00	F	2	0	2																									0
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2002												B A L												
							CALENDAR YEAR 2002																								
							2001																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Tri-band Field Terminal		98	F	2	2	0																									0
Tri-band Field Terminal		99	F	2	2	0																									0
Tri-band Field Terminal		00	F	2	2	0																									0
Remarks:																															

FY 1999/00 BUDGET PRODUCTION SCHEDULE, P-21						DATE September 1998																									
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force						Weapon System					P-1 ITEM NOMENCLATURE Predator Unmanned Aerial Vehicle																				
		Production Rate				Procurement Leadtimes																									
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
SAR	Northrop Grumman					7	1-8-5	24	2	4	7	7	11	mos																	
	Baltimore MD																														
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2004										B A L														
							2003					CALENDAR YEAR 2004					CALENDAR YEAR 2005														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SAR		FY97	F	6	6	0																									0
SAR		FY98	F	17	17	0																									0
SAR		FY99	F	8	8	0																									0
SAR		FY00	F	5	5	0																									0
SAR		FY01	F	5	5	0																									0
SAR		FY02	F	5	5	0																									0
SAR		FY03	F	5	0	5		1		1		1																			0
SAR		FY04	F	5	0	5													1			1		1		1					0
SAR		FY05	F	5	0	5																									5
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006										B A L														
							2005					CALENDAR YEAR 2006					CALENDAR YEAR 2007														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SAR		FY97	F	6	6	0																									0
SAR		FY98	F	17	17	0																									0
SAR		FY99	F	8	8	0																									0
SAR		FY00	F	5	5	0																									0
SAR		FY01	F	5	5	0																									0
SAR		FY02	F	5	5	0																									0
SAR		FY03	F	5	5	0																									0
SAR		FY04	F	5	5	0																									0
SAR		FY05	F	5	0	5		1		1		1																			0
Remarks:																															

FY 1999/00 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1999																						
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force					Weapon System		P-1 ITEM NOMENCLATURE Predator Unmanned Aerial Vehicle																						
					Production Rate			Procurement Leadtimes																					
Item		Manufacturer's Name and Location			MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																
Air Vehicles (Attrition):		General Atomics ASI			7	1-8-5	24	2	4	7	7	11	mos																
		Rancho Bernardo CA																											
Attrition air vehicles are procured in conjunction with system procurements. Attrition air vehicles deliveries follow system air vehicle deliveries.																													
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999						B A L				
							1997			CALENDAR YEAR 1998									CALENDAR YEAR 1999										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		A P R	M A Y	J U N	J U L
Air Vehicle (System)	97	F	14	0	14																								0
Air Vehicle (System & Attrition)	98	F	20	0	20																								17
Air Vehicle (System & Attrition)	99	F	15	0	15																								15
Air Vehicle (System)	00	F	3	0	3																								3
Air Vehicle (Attrition)	01	F	6	0	6																								6
Air Vehicle (Attrition)	02	F	5	0	5																								5
Air Vehicle (Attrition)	03	F	7	0	7																								7
Air Vehicle (Attrition)	04	F	7	0	7																								7
Air Vehicle (Attrition)	05	F	7	0	7																								7
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001						B A L				
							1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		A P R	M A Y	J U N	J U L
Air Vehicle (System)	97	F	14	14	0																								0
Air Vehicle (System & Attrition)	98	F	20	3	17	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1									0
Air Vehicle (System & Attrition)	99	F	15	0	15																								3
Air Vehicle (System)	00	F	3	0	3																								3
Air Vehicle (Attrition)	01	F	6	0	6																								6
Air Vehicle (Attrition)	02	F	5	0	5																								5
Air Vehicle (Attrition)	03	F	7	0	7																								7
Air Vehicle (Attrition)	04	F	7	0	7																								7
Air Vehicle (Attrition)	05	F	7	0	7																								7

Remarks: Air Vehicles represented include system and/or attrition air vehicles.

APPROPRIATION/BUDGET ACTIVITY Weapon System P-1 ITEM NOMENCLATURE
Aircraft Procurement, Air Force **Predator Unmanned Aerial Vehicle**

Item	Manufacturer's Name and Location	Production Rate			Procurement Leadtimes				Total	Unit of Measure
		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT		
Air Vehicle, EO/IR PL (FY97)	General Atomics ASI	7	1-8-5	24	2	4	7	7	11	mos
(System and Attrition)	Rancho Bernardo CA									
Air Vehicles (Attrition):	In FY98 and Later - Attrition air vehicles are procured in conjunction									
w/Ku-Band, SAR	with system procurements. Attrition air vehicles deliveries follow									
	system air vehicle deliveries.									

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006												FISCAL YEAR 2007												B A L
						2005					CALENDAR YEAR 2006							CALENDAR YEAR 2007												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Air Vehicle (System)	97	F	14	14	0																									0
Air Vehicle (System & Attrition)	98	F	20	20	0																									0
Air Vehicle (System & Attrition)	99	F	15	15	0																									0
Air Vehicle (System)	00	F	4	4	0																									0
Air Vehicle (Attrition)	01	F	6	6	0																									0
Air Vehicle (Attrition)	02	F	7	7	0																									0
Air Vehicle (Attrition)	03	F	7	7	0																									0
Air Vehicle (Attrition)	04	F	7	5	2	1		1																						0
Air Vehicle (Attrition)	05	F	7	0	7				1		1		1		1		1													0

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006												FISCAL YEAR 2007												B A L		
						2005					CALENDAR YEAR 2006							CALENDAR YEAR 2007														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Remarks: Air Vehicles represented include system and/or attrition air vehicles.

FY 1999/00 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1999																										
APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, Air Force							Weapon System					P-1 ITEM NOMENCLATURE Predator Unmanned Aerial Vehicle																					
							Production Rate			Procurement Leadtimes																							
Item		Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																		
Ground Control Station		General Atomics ASI					1	1-8-5	6	2	4	7	7	11	mos																		
		Rancho Bernardo CA																															
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L		
							1997		CALENDAR YEAR 1998												CALENDAR YEAR 1999												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Ground Control Station		97	F	2	0	2																										0	
Ground Control Station		98	F	2	0	2																										2	
Ground Control Station		99	F	1	0	1																										1	
Ground Control Station		00	F	1	0	1																										1	
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L		
							1999		CALENDAR YEAR 2000												CALENDAR YEAR 2001												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Ground Control Station		97	F	2	2	0																										0	
Ground Control Station		98	F	2	0	2	1							1																		0	
Ground Control Station		99	F	1	0	1																										0	
Ground Control Station		00	F	1	0	1																										1	

Remarks:

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EXHIBIT P-40, BUDGET ITEM JUSTIFICATION SHEET							DATE: FEBRUARY 1999	
APPROPRIATION/BUDGET ACTIVITY								
Aircraft Procurement (3010)/Budget Activity 06								
	1998	1999	2000	2001	2002	2003	2004	2005
QUANTITY								
COST								
(MILLIONS)	278.639	520.903	420.921	420.207	324.278	328.880	313.590	284.716
MISSION AND DESCRIPTION								
Program Definition: Aircraft Initial Spares (Budget Program 1600)								
This program finances whole spare engines, spare engine, and reparable investment items including some items being newly introduced to the AF Inventory. Beginning in FY94, most initial spares are procured through the Working Capital Fund (WCF). When spares are delivered, this central procurement account reimburses the WCF. The effect of this change was a shift of funds to the right which may give the appearance of ramping requirements. However, this is not the case; it's a shift in financing. It is important to note the higher funding levels budgeted in FY00 and FY01 largely represent financing for obligations already incurred by the WCF. Initial spares are funded in the two program segments described below.								
Working Capital Funds (WCF) Spares								
This program finances the initial pipeline or inventory for all new weapon system spares, which includes modifications, support equipment,								
Exempt Spares								
This program finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Examples include whole spare engines, quick engine change (QEC) kits, Contractor Logistics Support (CLS), simulators/trainer, munitions, and classified spares.								
FY00 Program Justification:								
In FY00 thru FY05, due to the implementation of the Reengineered Supply Support Process (RSSP), initial spares for three aircraft pilot programs (C-130J, C-17, & F-22) are funded under Budget Program 10. As a result, funding budgeted in the Aircraft Spares and Repair Parts line item decreased. Initial spares for the E-8, E-3, B-2, F-16, B-1, Manned Reconnaissance System, and aircraft modification programs continue to make up the bulk of the budget request.								
Funding Summary:	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
WCF SPARES	207.741	316.874	313.329	241.247	128.066	119.261	111.890	86.433
EXEMPT SPARES	<u>70.898</u>	<u>204.029</u>	<u>107.592</u>	<u>178.960</u>	<u>196.212</u>	<u>209.619</u>	<u>201.700</u>	<u>198.283</u>
TOTAL	278.639	520.903	420.921	420.207	324.278	328.880	313.590	284.716

INITIAL SPARES FUNDING AIRCRAFT PROCUREMENT, BUDGET ACTIVITY 06					DATE Feb-99
P-1 LINE	END ITEM NOMENCLATURE	FY 1998	FY 1999	FY 2000	FY 2001
1	WCF SPARES	207.741	316.874	313.329	241.247
2	EXEMPT SPARES	70.898	204.029	107.592	178.960
TOTAL INITIAL SPARES		278.639	520.903	420.921	420.207

INITIAL SPARES FUNDING AIRCRAFT PROCUREMENT, BUDGET ACTIVITY 06					DATE FEB 1999
P-1 LINE	END ITEM NOMENCLATURE	FY 1998	FY 1999	FY 2000	FY 2001
1	B-52	0.152	1.134	1.111	5.338
2	B-1B	16.344	24.587	32.187	20.965
3	B-2	12.912	55.351	60.841	35.166
4	F-15	7.398	58.516	26.017	11.463
5	A-10	0.366	1.944	3.754	0.056
6	F-16	12.413	17.693	69.863	77.349
7	F-15E	1.702	4.232	28.353	9.312
8	F-117A	0.176	0.481	0.000	0.000
9	F-22	0.000	25.559	0.000	0.000
10	COMBAT RESCUE AND RECOVERY	0.000	4.803	3.072	0.854
11	PRECISION ATTACK SYSTEMS	0.015	0.051	1.513	0.000
12	COMPASS CALL	7.138	1.674	8.318	8.505
13	E-3	6.515	3.331	40.717	33.340
14	ABCCC	0.186	0.699	0.509	0.000
15	ADV COMM SYS	0.000	0.456	0.363	0.000

INITIAL SPARES FUNDING AIRCRAFT PROCUREMENT, BUDGET ACTIVITY 06					DATE FEB 1999
P-1 LINE	END ITEM NOMENCLATURE	FY 1998	FY 1999	FY 2000	FY 2001
16	COMBAT TRAINING RANGE EQUIP	0.000	0.037	0.265	0.842
17	E-8	35.292	67.998	73.685	117.890
18	COMBAT DEVELOPMENTS	0.000	0.000	0.000	0.117
19	E-4B	0.501	0.849	0.717	1.149
20	MILSTAR	0.039	4.346	4.566	0.558
21	AERIAL TARGETS	0.000	0.000	0.885	0.604
22	GPS	0.045	0.334	0.000	0.000
23	MANNED RECONNIASSANCE SYS	16.455	41.068	40.772	41.271
24	C-130	11.121	10.279	2.054	0.000
25	C-5	2.503	2.688	2.448	22.411
26	C-17	129.024	113.052	0.000	0.000
27	C-130J	3.415	61.776	0.000	0.000
28	AIRLIFT MISSION ACTIVITIES	0.686	0.960	0.287	0.290
29	KC-135S	5.820	3.280	13.601	8.715
30	KC-10S	1.567	1.441	1.674	0.219
31	OPERATIONAL SUPPORT AIRLIFT	0.697	0.096	2.904	1.159
32	CV-22	0.000	0.000	0.000	16.798

INITIAL SPARES FUNDING AIRCRAFT PROCUREMENT, BUDGET ACTIVITY 06					DATE FEB 1999
P-1 LINE	END ITEM NOMENCLATURE	FY 1998	FY 1999	FY 2000	FY 2001
33	SPECIAL OPERATIONS FORCES	0.000	7.931	0.000	0.000
34	AEROSPACE RESCUE AND RECOVERY	2.242	1.143	0.000	0.000
35	TRAINING AIRCRAFT (ANG)	0.000	0.000	0.001	0.001
36	ICBM HELICOPTER SUPPORT	0.094	0.000	0.000	0.000
37	F-16 (AFR)	0.000	0.000	0.000	0.001
38	TACTICAL CRYPTOLOGIC UNITS	0.882	0.893	0.000	0.000
39	DEPOT MAINT	0.000	2.077	0.396	0.072
40	NEW AETC AIRCRAFT SYSTEM	0.000	0.027	0.000	0.000
41	UNDERGRADUATE PILOT TNG	0.000	0.000	0.000	5.695
42	UNDERGRADUATE NAV/TNG	0.713	0.117	0.048	0.049
43	EURO-NATO JOINT JET PILOT TRAIN	0.000	0.000	0.000	0.018
44	LOGISTICS OPERATIONS (NON-DBOF)	0.273	0.000	0.000	0.000
45	C-141	1.953	0.000	0.000	0.000
TOTAL INITIAL SPARES		278.639	520.903	420.921	420.207

PROGRAM COST BREAKDOWN							DATE: Feb-99			
B. APPROPRIATION/BUDGET ACTIVITY Aircraft Procurement, AF (3010)/BA06		Aircraft Initial Spares								
ELEMENT OF COST	IDENT CODE	FY98		FY99		FY00		FY01		
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
INITIAL SPARES Budget Program 16			278.639		520.903		420.921		420.207	

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**FY 00-01 PRESIDENT'S BUDGET
BP12 COMMON SUPPORT EQUIPMENT
FEBRUARY 1999**

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: COMMON SUPPORT EQUIPMENT (OVERVIEW)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$144,037	\$157,664	\$171,369	\$183,151	\$197,976	\$188,095	\$248,063	\$233,361
<p>Description:</p> <p>1. This program provides funding for the procurement of replacement organizational and intermediate (common and peculiar) support equipment for out-of-production aircraft. These items, common (used on more than one weapon system) and peculiar (unique to one weapon system), are used in direct support of aircraft maintenance and servicing requirements. These replacement requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system. Items being replaced range in age from 10 to 30 years old, have frequent failures and spare parts which are no longer available or not economical to repair. Many items are technologically obsolete or are being replaced due to environmental operating constraints. Items of equipment budgeted include: avionics test stations, aircraft deicing equipment, munitions handling equipment, jet engine test stands, electronic test sets, lift trucks, servicing carts, maintenance platforms, and automatic test equipment. These items are applicable across multiple weapon systems.</p> <p>2: Items to be procured with FY98-01 funds are listed on the attached P-40a followed by individual justifications.</p>								
			P-1 ITEM NO: 66			PAGE NO:		

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

DATE: FEBRUARY 1999

APPROP CODE/BA:
APAF/COMMON SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
COMMON SUPPORT EQUIPMENT (OVERVIEW)

PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
1. STORES MANAGEMENT SYS	A	52	\$6,240						
2. AIRCRAFT MAINT FIXTURE	A	4	\$15,880						
3. COMPRESSOR, GAS TURBINE	A	144	\$21,256						
4. AIR CONDITIONER, PD-501	A	13	\$3,434	22	\$5,812				
5. ENG TEST TRIM AUTO SYSTEM (ETTAS)	A			50	\$12,236				
6. MOBILE AIRBORNE FIRE FIGHTING SYSTEM (MAFFS)	A			1	\$ 6,000				
7. TRANSPONDER TEST SET	A	7	\$309	4	\$300	178	\$7,411	240	\$9,252
8. TRUCK MOUNTED DEICER	A	45	\$10,884	60	\$14,952	45	\$11,386	22	\$5,409
9. LINKLESS AMMO LOADING SYSTEM (LALS)	A	35	\$5,512	1	\$190	16	\$2,608	48	\$7,967
10. MAINTENANCE PLATFORM, HIGH REACH	A	7	\$4,003	16	\$10,536	9	\$6,223		
11. 305 RF BRAT	A	4	\$11,152		\$6,450		\$7,450		\$7,450
12. 405 RF TRANSPORTABLE BRAT	A	9	\$15,256		\$8,750		\$7,450		\$7,450
13. ELECTRONIC SYSTEM TEST STATION (ESTS)	A		\$1,725		\$19,900	5	\$20,025		\$22,525
14. NEW GENERATION HEATER	A			8	\$3,500	200	\$2,137	1200	\$13,463
15. SELF GENERATING NITROGEN SERVICING CART (SGNSC)	A			2	\$635	133	\$5,163	360	\$12,171
16. HYDRAULIC COMPONENT TEST STAND HCT-20	A			2	\$949			63	\$12,243
17. COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)	A				\$500	270	\$8,096	270	\$5,326
18. JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)	A					33	\$7,472	71	\$18,285
19. ITEMS LESS THAN \$5 MILLION	A		\$48,386		\$66,954		\$85,948		\$61,610
Totals:			\$144,037		\$157,664		\$171,369		\$183,151

Remarks:

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: TRANSPONDER TEST SET				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	7	4	178	240	240	101	17	12
COST (in Thousands)	\$309	\$300	\$7,411	\$9,252	\$9,433	\$4,399	\$1,002	\$723
<p>Description:</p> <p>1. The AN/APM-424 Transponder Test Set is a true "hand held", battery powered device that can be aimed at a specific aircraft, equipped with an air traffic control Identification Friend or Foe (IFF), and triggered to do a systems verification "squirt test". Results are seen on an internal indicator screen near the sighting reticule. The device does a quick and thorough verification of IFF modes including determining if the target aircraft has a properly functioning, properly set up Mode 4 (cryptosecure mode) electronic identification capable IFF. This code identifies the aircraft as "friendly" and prevents "friendly fire". FY98-01 procurement funds shortages and replacements of test sets generated by Joint Chiefs of Staff direction for all services/commands to possess operable IFF/Mode 4 for every equipped fixed and rotary wing aircraft sortie and to conduct operational Mode 4 checks prior to flight. The following aircraft are supported by this test set: B-52H, C-5, C-130, C-135, C-141, E-3, F-15, F-16, F-117, KC-135, T-38, and helicopters.</p> <p>2. Failure to procure this Transponder Test Set will result in the aircraft's inability to conduct preflight operational Mode 4 checks. Inability to "squirt check" the Mode 4 at preflight could result in grounding of an aircraft and mission degradation. The lack of this test set could result in "friendly fire" and lead to the subsequent downing of "friendly" aircraft.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT							P-1 NOMENCLATURE: TRANSPONDER TEST SET							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
TRANSPONDER TEST SET	A	7	44,120	309	4	75,000	300	178	37,848	6,737	240	38,550	9,252	
DATA										674				
TOTALS:				309			300			7,411			9,252	
REMARKS:														
				P-1 ITEM NO: 66						PAGE NO:		Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: TRANSPONDER TEST SET						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
TRANSPONDER TS										
FY98 (1)	7	44,120	AFMC/SA-ALC	OPT/FFP	LITTON, WOODLAND HILLS, CA	AUG 97	OCT 98			
FY99 (2)	4	75,000	AFMC/SA-ALC	C/FFP W/OPT	UNKNOWN	APR 99	MAR 00	Y		
FY00 (3)	178	37,848	AFMC/SA-ALC	OPT/FFP	UNKNOWN	MAR 00	APR 00	Y		
FY01 (3)	240	38,550	AFMC/SA-ALC	OPT/FFP	UNKNOWN	JAN 01	FEB 01	Y		
REMARKS: 1. FY98 option to FY95 sole source contract. 2. FY99 procures four First Articles. Unit cost based on engineering estimate. 3. FY00/01 unit cost based on FY95 contract price plus escalation.										
				P-1 ITEM NO: 66				PAGE NO:		
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT	P-1 NOMENCLATURE: TRUCK MOUNTED DEICER
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	45	60	45	22	10	10	10	0
COST (in Thousands)	\$10,884	\$14,952	\$11,386	\$5,409	\$2,507	\$2,559	\$2,614	\$0

Description:

1. The Truck Mounted Deicer is a truck-mounted, self-propelled spray unit designed for spraying external surfaces of aircraft with deicing, defrosting, or decontamination fluids. The mobility of the truck and maneuverability of the aerial platform enables the operating crew to have access to any area on the aircraft which is normally inaccessible from the ground. At ground level, the spray outlet can reach a maximum height of 48 feet. FY98-01 procures initial shortages and replacement deicers. The following aircraft are supported by this truck-mounted deicer: B-1, B-52H, C-5, C-17, C-130, C-141, E-8, KC-135.

2. Failure to procure the Truck Mounted Deicer will severely delay the mission readiness of all unsheltered aircraft on bases located in cold weather climates. Field units do not have enough hangar space to protect mission required aircraft from snow and ice. This requires units to conduct timely aircraft deicing to meet daily operational requirements.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT					P-1 NOMENCLATURE: TRUCK MOUNTED DEICER								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
TRUCK MOUNTED DEICER	A	45	233,281	10,498	60	237,247	14,235	45	241,446	10,865	22	245,878	5,409
TRAINING (TYPE I)				386			717			521			
TOTALS:				10,884			14,952			11,386			5,409
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: TRUCK MOUNTED DEICER						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
TRUCK MOUNTED DEICER										
FY98 (1)	45	233.281	AFMC/SA-ALC	OPT/FFP	LANDOLL CORP, MARYSVILLE, KS	DEC 97	JUL 98			
FY99	60	237.247	AFMC/SA-ALC	C/FFP	UNKNOWN	FEB 99	SEP 99	Y		
FY00	45	241.446	AFMC/SA-ALC	OPT/FFP	UNKNOWN	NOV 99	SEP 00	Y		
FY01	22	245.878	AFMC/SA-ALC	OPT/FFP	UNKNOWN	NOV 00	JUN 01	Y		
REMARKS: 1. FY98 option to FY96 contract awarded Jul 96.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: LINKLESS AMMUNITION LOADING SYSTEM (LALS)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	35	1	16	48	16	7	0	0
COST (in Thousands)	\$5,512	\$190	\$2,608	\$7,967	\$2,704	\$1,210	\$0	\$0
<p>Description:</p> <p>1. The Linkless Ammunition Loading System (LALS) is a four-wheeled mechanical 20mm ammunition storage, transportation and loading system. It uses a hand crank or pneumatic drive tool to cycle ammunition through the system to load fighter aircraft. While performing this loading function, it simultaneously downloads cleared rounds or spent cases from the aircraft. The ammunition loader interfaces with M61A1 gun systems and is compatible with all M-series and PGU-series 20mm ammunition. The primary mission of the LALS is air warfare support. FY98-01 procurement funds shortages in the field and replaces assets which have exceeded their service life. The following aircraft are supported by the LALS: F-15, F-16, and F-22.</p> <p>2. Failure to procure the LALS may result in delays loading 20mm ammunition onto fighter aircraft resulting in extensive downtime between sorties. This could result in serious degradation to the tactical mission during deployments in threat areas.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999				
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT					P-1 NOMENCLATURE: LINKLESS AMMUNITION LOADING SYSTEM (LALS)									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
LALS	A	35	157,483	5,512	1	185,000	185	16	162,995	2,608	48	165,987	7,967	
DATA							5							
TOTALS:				5,512			190			2,608			7,967	
REMARKS: FY99 procures 1 First Article														
		P-1 ITEM NO: 66						PAGE NO:			Page 1 of 1			

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: LINKLESS AMMUNITION LOADING SYSTEM (LALS)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
LALS										
FY98	35	157,483	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY / WESTERN DESIGN HOWDEN, IRVINE, CA	JAN 98	FEB 99			
FY99	1	185,000	AFMC/SA-ALC	MIPR/C/FFP	NAVY /NAWC/ UNKNOWN	MAR 99	AUG 00	Y		
FY00	16	162,995	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY /NAWC/ UNKNOWN	JUL 00	SEP 00	Y		
FY01	48	165,987	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY /NAWC/ UNKNOWN	NOV 00	JAN 01	Y		
REMARKS: FY99 procurement will be a joint Navy and Air Force procurement in which each service will procure separate but similar equipment with both services requiring a first article test. Navy facility for item management is Naval Air Warfare Center (NAWC), Lakehurst, NJ.										
			P-1 ITEM NO: 66				PAGE NO:			
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MAINTENANCE PLATFORM, HIGH REACH				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	7	16	9	0	0	0	0	0
COST (in Thousands)	\$4,003	\$10,536	\$6,223	\$0	\$0	\$0	\$0	\$0
<p>Description:</p> <p>1. The High Reach Maintenance Platform is a completely self-contained, hydraulically operated unit mounted on a truck type carrier. The aerial lift consists of main components such as a turret, inner and outer columns, and an inner/outer boom and platform. The inner and outer boom and platform are assembled to form an integrated mechanical structure, providing for vertical and horizontal movement. The boom assembly can be extended to a maximum height of 125 feet and has a maximum horizontal reach of 60 feet when the boom is extended to 72 feet. Capacity of the platform is 1,500 lbs. The High Reach Maintenance Platform is used to work on, remove, and install stabilizers on the C-5 and C-17 aircraft. It is also used for deicing large aircraft. FY00 funding buys out the current Air Force inventory objective for this item.</p> <p>2. Failure to procure this High Reach Maintenance Platform will severely impact mission readiness for the C-5 and C-17 aircraft. The lack of this item will suspend maintenance and prevent inspection procedures for the aircraft, most importantly the tail section. The only work-around identified is borrowing another high reach platform from another base, thereby increasing down-time of the aircraft.</p> <p>3. Type Item: A</p>								
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: MAINTENANCE PLATFORM, HIGH REACH						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
MAINTENANCE PLATFORM, HIGH REACH										
FY 98	7	571,891	AFMC/SA-ALC	MIPR/OPT/FFP	DLA/CALAVAR, WACO, TX	DEC 97	DEC 98			
FY 99	16	658,513	AFMC/SA-ALC	MIPR/OPT/FFP	DLA/CALAVAR, WACO, TX	DEC 98	DEC 99			
FY 00	9	691,439	AFMC/SA-ALC	MIPR/OPT/FFP	DLA/CALAVAR, WACO, TX	DEC 99	DEC 00	Y		
REMARKS:										
			P-1 ITEM NO: 66				PAGE NO:			
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: 305 RADIO TEST STATION				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$11,152	\$6,450	\$7,450	\$7,450	\$0	\$0	\$0	\$0
<p>Description:</p> <p>1. The 305 Radio Test Station, also known as the Radio Frequency Benchtop Reconfigurable Automatic Tester (RF BRAT), is a flexible test system based on an open architecture of commercial equipment in a modular design used to support E-3B/C aircraft. It can also be used as general purpose test equipment (GPTE) through its built-in virtual panels. The interface provides complex testing capabilities. The test equipment consists of, but is not limited to, controller, controller operational software, power source, RF, Analog/Digital and Test Program Sets (TPSs). This procurement provides a standard commercial test system for a minimum of 78 E-3 Airborne Warning & Control System (AWACS) Line Replaceable Units (LRUs)/Shop Replaceable Units (SRUs). It replaces a minimum of 14 different testers, allowing interchangeability of tester hardware between shops thus reducing work stoppages and eliminating the proliferation of support equipment as well as reducing logistics support requirements and costs. The TPSs are used to diagnose and troubleshoot failures in LRUs and SRUs in the E-3B/C aircraft. The TPSs consist of the program code, Interface Test Adapter (ITA), and cables used to connect the ITA and the item being tested. Programming is done through a graphical "spreadsheet" environment, providing low learning curves and high throughput. These TPSs will also facilitate the reduction of testing time and maintenance costs while increasing the mission capable (MC) rate. FY98-01 funding procures test capability not available because of obsolete and unsupportable equipment.</p> <p>2. Failure to procure the 305 Radio Test Station Test Program Sets will greatly impair the E-3B/C aircraft mission readiness. The TPSs are state-of-the-art and will eliminate obsolete test equipment. Additionally, failure to procure these TPSs will result in a decrease in mission capable rates.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999				
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT					P-1 NOMENCLATURE: 305 RADIO TEST STATION									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
305 RADIO TEST STATION (RF BRAT)	A	4	1,112,900	4,452										
SOFTWARE DEVELOPMENT LICENSE				200										
TPS SOFTWARE DEVELOPMENT (1)				2,150										
305 TEST PROGRAM SETS (2)	A	9	250,000	2,250	20	250,000	5,000	15	350,000	5,250	15	350,000	5,250	
INDEPENDENT VALIDATION & VERIFICATION (IV & V)				500			500			500			500	
PROGRAM SUPPORT				600						250			250	
INTERIM CONTRACTOR SUPPORT (ICS)							250			750			750	
DATA				1,000			700			700			700	
TOTALS:				11,152			6,450			7,450			7,450	
REMARKS:														
1. TPS software will be developed organically at Warner Robins Air Logistics Center, GA. 2. FY99-01 unit costs are engineering estimates based on the complexity of the TPS being procured.														
				P-1 ITEM NO: 66				PAGE NO:				Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: 305 RADIO TEST STATION						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
305 RADIO TEST STATION/FY98	4	1112900	AFMC/SA-ALC	SS/FFP	ATTI, INC, HAUPPAUGE, NY	MAR 98	JUN 98			
305 TEST PROG SETS/FY98	9	250,000	AFMC/SA-ALC	SS/FFP	ATTI, INC, HAUPPAUGE, NY	JUN 98	JUN 99			
305 TEST PROG SETS/FY99	20	250,000	AFMC/SA-ALC	C/FFP	UNKNOWN	APR 99	APR 00	Y		
305 TEST PROG SETS/FY00	15	350,000	AFMC/SA-ALC	OPT/FFP	UNKNOWN	APR 00	APR 01	N	OCT 99	
305 TEST PROG SETS/FY01	15	350,000	AFMC/SA-ALC	OPT/FFP	UNKNOWN	APR 01	APR 02	N	OCT 00	
REMARKS: FY99-01: SA-ALC has determined that a new competitive contract for the 305 Radio Test Station Test Program Sets would be most advantageous to the Air Force due to the complexity of the test program sets and software. Competition may cultivate additional sources of TPS developers.										
			P-1 ITEM NO: 66				PAGE NO:			
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$15,256	\$8,750	\$7,450	\$7,450	\$0	\$0	\$0	\$0
<p>Description:</p> <p>1. The 405 Transportable Radio Test Station, also known as the Radio Frequency Transportable Benchtop Reconfigurable Automatic Tester (RF T-BRAT), is a flexible test system, based on an open architecture of commercial equipment in a modular design used to support E-3B/C aircraft. It can also be used as general purpose test equipment (GPTE) through its built-in virtual panels. The interface provides universal analog, dynamic and static digital test points, three phase facility power routing, and dedicated radio frequency paths, which reduce the number and complexity of Interface Test Adapter (ITAs). The RF T-BRAT features VXI instrument-on-a-card and modular technologies to provide complex testing capabilities. The test equipment consists of, but is not limited to, controller, controller operational software, power source, RF, Analog/Digital and Test Program Sets (TPSs). This procurement provides a standard commercial test system for a minimum of 78 E-3 Airborne Warning & Control Systems (AWACS) Line Replaceable Units (LRUs)/Shop Replaceable Units (SRUs). It replaces a minimum of 14 different existing testers, allowing interchangeability of tester hardware between shops thus reducing work stoppages and eliminating the proliferation of support equipment, as well as reducing logistics support requirements and costs. The TPSs are used to diagnose and troubleshoot failures in LRUs and SRUs in the E-3B/C in a deployed environment. The TPSs consist of the program code, ITA, and cables used to connect the ITA and the item being tested. Programming is done through a graphical "spreadsheet" environment providing low learning curves and high throughput. These TPSs will also satisfy the deployability requirements, facilitate the reduction of testing time and maintenance costs while increasing the mission capable (MC) rate. FY98-01 funding procures shortages generated by obsolete and unsupported equipment.</p>								
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT		P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION	
Description (cont.): 2. Failure to procure the 405 Transportable Radio Test Station Test Program Sets will significantly impair the E-3B/C aircraft mission readiness. The TPSs are state-of-the-art and will eliminate multiple types of obsolete test equipment. Additionally, failure to procure these TPSs will result in a decrease in mission capable rates.			
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999				
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT					P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
405 TRANSPORTABLE RADIO TEST STATION (RF T- BRAT)	A	9	1,222,900	11,006										
DATA				1,000			700			700				700
405 TEST PROGRAM SETS (TPS) (1)	A	10	250,000	2,500	28	250,000	7,000	15	350,000	5,250	15	350,000	5,250	
INTERIM CONTRACTOR SUPPORT (ICS)							250			750			750	
INDEPENDENT VALIDATION & VERIFICATION (IV & V)				450			500			500			500	
PROGRAM SUPPORT										250			250	
TEST/ENGR SUPPORT				300			300							
TOTALS:				15,256			8,750			7,450			7,450	
REMARKS: 1. FY99-01 unit costs are engineering estimates based on the complexity of the TPSs being procured.														
				P-1 ITEM NO: 66				PAGE NO:				Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
405 RADIO TEST STATION/FY98	9	1222900	AFMC/SA-ALC	SS/FFP	ATTI, INC, HAUPPAUGE, NY	MAR 98	JUL 98			
405 R.F. T-BRAT TPS/FY98	10	250.000	AFMC/SA-ALC	SS/FFP	ATTI, INC, HAUPPAUGE NY	JUN 98	JUN 99			
405 R.F. T-BRAT TPS/FY99	28	250.000	AFMC/SA-ALC	C/FFP	UNKNOWN	APR 99	APR 00	Y		
405 R.F. T-BRAT TPS/FY00	15	350.000	AFMC/SA-ALC	OPT/FFP	UNKNOWN	APR 00	APR 01	N	OCT 99	
405 R.F. T-BRAT TPS/FY01	15	350.000	AFMC/SA-ALC	OPT/FFP	UNKNOWN	APR 01	APR 02	N	OCT 00	
REMARKS: FY99-01: SA-ALC has determined that a new competitive contract for the 405 RF T-BRAT Test Program Sets would be most advantageous to the Air Force due to the complexity of the test program sets and software. Competition may cultivate additional sources of TPS developers.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ESTS)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY			5					
COST (in Thousands)	\$1,725	\$19,900	\$20,025	\$22,525	\$11,525	\$0	\$0	\$0
<p>Description:</p> <p>1. The Electronic System Test Station (ESTS) is a mobile test station comprised of multiple electronic components such as a computer controlled memory unit, a signal generator converter, converter interface, air supply fan, printer, pneumatic generator and controller assembly, television monitor, rate turn table, cables, air and nitrogen cylinders. This tester will perform parametric testing for trouble shooting and repair of F-15 Line Replaceable Units (LRUs). It will also provide ambient air cooling to the Unit Under Test (UUT) and will examine and provide discreet evaluation of the overall performance of the system and subsystems for the antenna, fire control and telemetry systems. Test Program Sets (TPSs) consist of software, interface test adapters, documentation and cables required as an interface between the tester and the aircraft LRUs. The ESTS is a stand alone system requiring one pallet to deploy in lieu of 22 pallets required by the current Avionics Intermediate Shop (AIS). This tester will have increased reliability and maintainability and will reduce test times. The existing F-15 AIS developed in the early 1970's contains many electronic components which are no longer available. FY00/01 provides funding for new test stations, test program sets (TPSs), and interim contractor support (ICS). The following aircraft are supported by this test station: F/TF-15 A/B/C/D/E.</p> <p>2. Failure to procure the ESTS will result in the F-15's inability to sustain sortie operations due to the backlog of aircraft systems malfunctions requiring testing and repair. The older test stations are unable to accommodate existing workloads and are subject to malfunctioning which in turn decreases LRU throughput. Also, Air Combat Command's requirement for a truly mobile tester cannot be met by modifying the AIS which is now technologically outdated. The ESTS will significantly increase LRU supportability.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT						P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ESTS)								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
ELECTRONIC SYSTEM TEST STATION (ESTS)	A							5	1,200,000	6,000				
INTERFACE TEST ADAPTERS (ITA)	A							5	500,000	2,500				
INTERIM CONTRACTOR SUPPORT (ICS) (1)				1,725			15,920			11,525			11,525	
TEST PROGRAM SET (TPS) PRODUCTION UPDATE							125							
GFE REPAIR/REFURBISH							600							
ENG CHG ORDER (ECO)							3,255							
RADIO LINE REPLACEABLE UNITS (LRU) TPS (2)	A										30	366,666	11,000	
TOTALS:				1,725			19,900			20,025			22,525	
REMARKS:														
1. Interim Contractor Support (ICS) provides for the following: Inclusive maintenance support to include purchase of a material augmentation package to allow for quick turnaround of parts, tech orders, deficiency reports, and configuration management.														
2. Unit cost for Radio LRU TPS based on contractor quote.														
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ESTS)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
ELECTRONIC SYSTEM TEST STATION (ESTS)										
FY00	5	1200000	AFMC/ASC	OPT/FP	GRUMMAN CORP, ROLLING MEADOWS, NY	JAN 00	FEB 00	Y		
REMARKS: Option to an FY93 SS/FP contract.										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NEW GENERATION HEATER				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	8	200	1,200	1,200	1,200	842	0
COST (in Thousands)	\$0	\$3,500	\$2,137	\$13,463	\$14,136	\$14,843	\$10,935	\$0
<p>Description:</p> <p>1. The New Generation Heater is a wheeled, trailer-mounted, duct-type heater primarily used to provide personnel comfort while performing aircraft maintenance. It heats aircraft cockpits, engines, cargo areas, and temporary structures in various environments using multiple fuels. FY00/01 continues a total replacement program which begins in FY99 to replace current systems that have become increasingly difficult and costly to maintain. Additionally, numerous replacement parts are no longer available due to obsolescence. The following systems are supported by this heater: C-130, KC-135, C-5, C-141, E-3, F-15, F-16, F-117, A-10, B-1, B-52, and helicopters.</p> <p>2. Failure to procure this New Generation Heater will result in the continued costly repair of old, unreliable units, and high man-hour expenditures. Heaters currently in use have well exceeded their estimated service life. Without new replacements, units will be unable to perform flightline maintenance tasks with a resulting impact to mission readiness.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT							P-1 NOMENCLATURE: NEW GENERATION HEATER						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
FIRST ARTICLES	A				8	350.000	2,800						
DATA							700						
NEW GENERATION HEATER	A							200	10.685	2,137	1,200	11,219	13,463
TOTALS:							3,500			2,137			13,463
REMARKS: First Articles include such non-recurring costs as preliminary design and testing, as well as actual hardware.													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: NEW GENERATION HEATER						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
NEW GENERATION HEATER										
FY99 FIRST ARTICLES	8	350,000	AFMC/WR-ALC	C/FP	UNKNOWN	APR 99	NOV 99	Y		
FY00	200	10,685	AFMC/WR-ALC	OPT/FP	UNKNOWN	JUL 00	OCT 00	Y		
FY01	1200	11,219	AFMC/WR-ALC	OPT/FP	UNKNOWN	NOV 00	FEB 01	Y		
<p>REMARKS: The New Generation Heater acquisition plan has been restructured since the FY99 President's Budget submission. Quantities and dollars in FY99 and subsequent years have been realigned to reflect the current plan. FY99 funds will procure eight first articles for testing and FY00 will begin full production of the heaters. Unit costs are engineering estimates.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: SELF-GENERATING NITROGEN SERVICING CART (SGNSC)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	2	133	360	360	359	0	0
COST (in Thousands)	\$0	\$635	\$5,163	\$12,171	\$12,171	\$12,137	\$0	\$0
<p>Description:</p> <p>1. The Self-Generating Nitrogen Servicing Cart (SGNSC) is a self-contained, diesel engine powered, four wheel, towable cart with a weight of less than 4,000 pounds. It produces gaseous nitrogen by use of a plastic fiber membrane that separates pure nitrogen from ambient, compressed air. The SGNSC is used throughout the Air Force to service aircraft tires, struts and accumulators. This SGNSC will replace three unreliable and obsolete systems: (1) the liquid nitrogen servicing cart, (2) the six and eight bottle nitrogen servicing carts, and (3) an air compressor. The SGNSC is rapidly deployable and capable of supporting aircraft under remote and bare base conditions. This cart will eliminate the need to store and transport liquid nitrogen. The SGNSC eliminates the need to handle cryogenic liquid, reducing the possibility of injury and dependency on foreign sources when units deploy. The following aircraft are support by this SGNSC: A-10, B-1B, B-2, B-52, C-5, C-17, C-20, C-130, C-135, C-141, E-8, EC-3A, F-15, F-16, F-117, T-37, T-38, and T-39.</p> <p>2. Failure to procure the SGNSC will result in the Air Force relying on three unreliable, obsolete systems. The SGNSC will be more efficient, safe, maintainable, and cost effective than the present systems for servicing Air Force aircraft. Today, servicing carts must be filled with liquid nitrogen supplied by either a cryogenic plant or through contract services and converted to gaseous nitrogen in the servicing cart. This operation is hazardous and time consuming. Whenever the required quantities of liquid nitrogen are not available in the local area of a deployment, the Air Force must ship and store 400 gallon liquid nitrogen storage tanks. Utilizing the SGNSC will reduce manhours required for nitrogen servicing and decrease the deployment footprint for aircraft squadrons.</p>								
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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT					P-1 NOMENCLATURE: SELF-GENERATING NITROGEN SERVICING CART (SGNSC)								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
FIRST ARTICLES	A				2	244,304	489						
TECHNICAL MANUALS							60						
TRAINING (TYPE I)							46						
DATA							40						
SGNSC	A							133	38,820	5,163	360	33,808	12,171
TOTALS:							635			5,163			12,171
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: SELF-GENERATING NITROGEN SERVICING CART (SGNSC)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
SGNSC										
FY99 FIRST ARTICLE	2	244,304	AFMC/SA-ALC	C/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	OCT 98	MAR 00			
FY00	133	38,820	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	APR 00	NOV 00	Y		
FY01	360	33,808	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	DEC 00	JUL 01	Y		
REMARKS: The SGNSC acquisition plan has been restructured since the FY99 President's Budget submission. An attempt to award FY98 funds for this item led to contractor protests. GAO decision on contractor protests was resolved in Sep 98. First Articles were procured with FY99 funding in Oct 98..										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT	P-1 NOMENCLATURE: HYDRAULIC COMPONENT TEST STAND, HCT-20
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	2	0	63	84	83	0	0
COST (in Thousands)	\$0	\$949	\$0	\$12,243	\$16,649	\$16,803	\$0	\$0

Description:

1. The Hydraulic Component Test Stand (HCT-20) is comprised of two parts. The first section is the drive console which houses a drive panel, pump mounting pad, and skid that contains a variable speed direct current electric drive motor with associated parts. It also contains a high pressure system hydraulic pump with electric drive motor, volume control, high pressure filter, and ripple filter. The second section is a control console containing controls, indicators, and ports used during test stand operation. The stand is used to check serviceability of aircraft components prior to installation, pressure check locally manufactured hoses, and test repaired aircraft hydraulic components. Current test stands will have exceeded their service life by five to 10 years, and most are becoming increasingly difficult and costly to maintain. The following aircraft are supported by this test stand: B-1B, C-130, C-135, C-141B, F-15A, F-16, KC-135, and T-38.

2. Failure to procure this Hydraulic Component Test Stand will result in the continued costly repair of old, worn out units and high manhour expenditures. Current test stands have many parts that are no longer available through the supply system due to obsolescence. The newer aircraft in the inventory have hydraulic pressure requirements in the upper limits of the current stands and may well exceed these limits soon. Lack of proper hydraulic testing could result in possible failure of aircraft components, damage to equipment and aircraft as well as the loss of aircraft and aircrew lives.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT						P-1 NOMENCLATURE: HYDRAULIC COMPONENT TEST STAND, HCT-20							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
HYD COMP TEST STAND HCT-20	A				2	273,915	548				63	194,326	12,243
DATA							351						
TRAINING							50						
TOTALS:							949						12,243
REMARKS:													
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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: HYDRAULIC COMPONENT TEST STAND, HCT-20						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
HYD COMP TEST STAND HCT-20										
FY99 FIRST ARTICLE	2	273.915	AFMC/SA-ALC	C/FFP	UNKNOWN	SEP 99	DEC 00	Y		
FY01	63	194.326	AFMC/SA-ALC	OPT/FFP	UNKNOWN	JAN 01	SEP 01	Y		
REMARKS:										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT	P-1 NOMENCLATURE: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	270	270	270	270	270	270
COST (in Thousands)	\$0	\$500	\$8,096	\$5,326	\$5,900	\$6,345	\$6,680	\$6,950

Description:

1. The Common Aircraft Portable Reprogramming Equipment (CAPRE) program is a replacement of the Program Loader Verifier (PLV) and Digital Computer System (DCS). The CAPRE will be used on the flightline to reprogram software in aircraft computers, update threat data in electronic warfare pods, perform aircraft diagnostic troubleshooting, and support automated technical orders and related maintenance information systems. FY00/01 funding procures replacement equipment. The following weapon systems are supported by this equipment: A-10, B-52, C-5, C-17, C-130, F-15, F-16, H-60, and MH-53.

2 The current PLVs and DCSs are becoming unsupportable due to obsolescence of components and technology. Failure to procure the CAPRE will prevent the loading of classified mission data onto the aircraft. Without the most current threat data, mission capability will be reduced and could result in the loss of aircraft and life. Maintenance capability will also be degraded adversely affecting aircraft readiness.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
CAPRE										
FY00 (1)	270	16,000	AFMC/SA-ALC	OPT/FFP	UNKNOWN	NOV 99	FEB 00	Y		
FY01 (1)	270	16,304	AFMC/SA-ALC	OPT/FFP	UNKNOWN	NOV 00	FEB 01	Y		
REMARKS: FY00 and FY01 will be options to a FY99 competitive contract for bid sample testing scheduled for award in Aug 1999. The FY00 unit cost is an engineering estimate (based on cataloged unit price); the FY01 unit cost is an engineering estimate with inflation.										
			P-1 ITEM NO: 66				PAGE NO:			
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE: FEBRUARY 1999
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APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT	P-1 NOMENCLATURE: JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER
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	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	33	71	83	0	0	0
COST (in Thousands)	\$0	\$0	\$7,472	\$18,285	\$33,788	\$0	\$0	\$0

Description:

1 The Joint Service Electronic Combat System Tester (JSECST) is a flightline end-to-end (ETE) electronic combat system test set capable of verifying electronic combat system status and providing electronic combat system malfunction diagnostics for the Air Force and the Navy. The JSECST will replace the Navy USM 406C/D tester, augment the Navy USM 482A tester and fill a void in current Air Force electronic combat systems testing capability. The requirement was documented under a January 1993 Combat Air Force (CAF) Joint Combat Air Force-Naval Air Systems Command Mission Need Statement for a Flightline Electronic Combat Systems Tester. FY00/01 funds will procure initial Air Force requirements. Five prototypes in engineering manufacturing development (EMD) are being procured with RDT&E funds and are documented in the Air Force Descriptive Summary for PE64270F. The following Air Force aircraft are supported by this tester: A-10, C-130, F-15, and F-16.

2. The JSECST is a top priority procurement item for the CAF. Failure to procure the JSECST will leave field level units incapable of flightline electronic combat system test capability for combat aircraft.

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)												DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT						P-1 NOMENCLATURE: JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
JSECST	A							33	216.500	7,145	71	182,352	12,947	
TEST PROGRAM SETS (TPS)	A												4,659	
ENG CHANGE ORDERS (ECO)										327			679	
TOTALS:										7,472			18,285	
REMARKS: The Air Force and the Navy are buying the same core JSECST Test Sets; however, each service has specific Test Program Sets (TPSs). FY01 TPS funding represents the total estimated cost for various Air Force platforms and systems on those platforms.														
		P-1 ITEM NO: 66				PAGE NO:						Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
JSECST										
FY00	33	216,500	AFMC/ASC	SS/FFP	AAI CORP, HUNT VALLEY, MD.	JUN 00	DEC 00	Y		
FY01	71	182,352	AFMC/ASC	SS/FFP	AAI CORP, HUNT VALLEY, MD.	JAN 01	JUN 01	Y		
<p>REMARKS: First article testing is being accomplished on R&D EMD units. Based on the current acquisition plan, if the contractor, AAI Corp, meets a Production Price Commitment Curve (PPCC) established during award of the R&D contract, the Government will award a sole source production contract after Critical Design Review. A production award is scheduled for no later than Jun 2000 with first delivery in Dec 2000.</p>										
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$48,386	\$66,954	\$85,948	\$61,610	\$39,397	\$45,446	\$49,200	\$54,750
Description: <p>1. The "Items Less Than \$5 Million" line procures replacement organizational and intermediate (common and peculiar) support equipment for out-of-production aircraft. These items, common (used on more than one weapon system) and peculiar (unique to one weapon system), are used in direct support of aircraft maintenance and servicing requirements. These replacement requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system.</p> <p>2. All items have an annual procurement value of less than \$5,000,000. Items requested for procurement in FY00-01 are identified on the following P-40a.</p> <p>3. Type Item: A</p>								
			P-1 ITEM NO: 66			PAGE NO:		
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
ITEMS \$3M TO \$5M					
OPTICAL TEST BENCH	NSL	9	\$3,700		
GENERATOR TEST STAND	4920013954067	28	\$3,613		
MJ-1B LIFT TRUCK	1730011237269	112	\$3,474		
EDDY CURRENT FLAW DETECTOR	4920004631574	538	\$3,211		
C-5 ISOCHRONIC MAINTENANCE PLATFORM	1730001573976	1	\$1,482	2	\$3,016
C-5 EMPENNAGE STAND	1730001583039	1	\$1,521	2	\$3,042
UMS, DIESEL, SPLIT DECK MAINT PLATFORM	1730013704268	1	\$175	38	\$4,508
MHU-83D/E LIFT TRUCK	1730014462422			64	\$4,561
ENVIRONMENTAL CONTROL SYSTEM TEST SET	4920014242115FX			70	\$4,832
ITEMS LESS THAN \$3M					
FSC 1560			\$202		
FSC 1670			\$137		\$146
FSC 1680			\$207		\$355
FSC 1730			\$20,357		\$14,057
FSC 1740			\$3,200		\$2,697
FSC 2330			\$1,814		\$1,189
FSC 3655			\$2,207		\$1,659
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000		
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
FSC 3950			\$72		\$81
FSC 4310			\$369		\$309
FSC 4320			\$98		\$336
FSC 4510			\$133		\$268
FSC 4920			\$20,241		\$14,972
FSC 4933			\$41		\$133
FSC 5110			\$95		\$296
FSC 5120			\$8,752		\$3,839
FSC 5130			\$91		\$38
FSC 5133			\$9		
FSC 5180			\$532		\$259
FSC 5210			\$101		\$244
FSC 5220			\$680		\$158
FSC 5280			\$32		\$132
FSC 5935			\$10		\$25
FSC 6110			\$4		\$27
FSC 6130			\$17		\$1
FSC 6150			\$14		\$6
FSC 6625			\$45		\$173
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPMENT		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
FSC 6650			\$7,528		
FSC 6685			\$1,685		\$251
FSC 6695			\$99		
TOTALS:			\$85,948		\$61,610
		P-1 ITEM NO: 66	PAGE NO:		Page 3 of 3

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BUDGET ITEM JUSTIFICATION SHEET		Date:
		February 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA07, POST-PRODUCTION SUPPORT	A-10	

	Prior	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
QUANTITY										
COST (IN millions)		2.6	11.4	8.3						22.3

MISSION AND DESCRIPTION:

This activity funds required Unit Training Devices (UTDs) which will enable the Combat Air Forces to provide A-10 fighter pilots continuation training at squadron locations to ensure safety of flight and to maximize pilot proficiency and utilization of their A-10 weapon system. The A-10 UTD Visual System consists of the latest technology, commercial off-the-shelf image generation system and display. This system will allow A-10 pilots to train visual landing approaches, target acquisition, AGM-65 launch, night vision goggles (NVG) utilization, and threat avoidance.

FY00 PROGRAM JUSTIFICATION:

Funding supports the procurement of six UTD with Visual Systems packages.

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COST ANALYSIS EXHIBIT P-5	B. Popular Name A-10	C. Manufacturer Symvionics, Pasadena CA				D. Date: Feb 1999	
Appropriation (Treasury Code)/CC/BA/BSA/Item Control Number		FY98		FY99		FY00	
Aircraft Procurement/AF/BA01 Combat Aircra		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
QUANTITY			0		0		0
AIRFRAME/CFE ENGINE/ACCESSORIES AVIONICS: CFE/GFE ARMAMENT OTHER GFE NON-RECURRING COSTS Subtotal FLYAWAY COSTS			0.0		0.0		0.0
AIRFRAME PGSE ENGINE PGSE AVIONICS PGSE PECULIAR TRAINING EQUIPMENT PUBLICATIONS/TECH DATA ECO NON-RECURRING COSTS OTHER COSTS PROGRAM MGT ADMIN RQMTS OTHER (ICS) OTHER (HAZMAT) OTHER (SUPPORT CONTRACTS) OTHER (PLANT SHUTDOWN) Subtotal SUPPORT COSTS			2.6		11.4		8.3
GROSS P-1 COST			2.6		11.4		8.3
20 LESS: Prior Yr Adv. Proc			0.0		0.0		0.0
21 NET P-1 COST			2.6		11.4		8.3

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$M)						Date: Feb 99			
APPROPRIATION/P-1 Line Item: Aircraft Procurement (3010)		Weapon System: A-10		Equipment Nomenclature: Unit Training Device (UTD)		Program Element: 27131F			
Fin Plan	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	Total
Quantity	1	6	5						5
Proc	2.6	11.4	8.3						22.3
RDT&E									
O&S									

TRAINING SYSTEM DESCRIPTION:

This activity funds required Unit Training Devices (UTDs) which will enable the Combat Air Forces to provide A-10 fighter pilots continuation training at squadron locations to ensure safety of flight and to maximize pilot proficiency and utilization of their A-10 weapon system. The A-10 UTD Visual System consists of the latest technology, commercial off-the-shelf image generation system and display. This system will allow A-10 pilots to train visual landing approaches, target acquisition, AGM-65 launch, night vision goggles (NVG) utilization, and threat avoidance.

FY00 PB BUDGET ITEM JUSTIFICATION SHEET							DATE: Feb-99			
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT/BA01, COMBAT AIRCRAFT (BA07 FOR FY99/OUT)							P-1 ITEM NOMENCLATURE B-2			
	FY98/PRIOR	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	TOTAL
QUANTITY	21	0	0	0	0	0	0	0	0	21
COST (TY\$ IN MILLIONS)	17600.5	238.6	106.9	30.1	16.1	7.4	7.6	7.8	0.0	18015.0
<p>Mission and Description: The B-2 is an all-wing, two-crew aircraft with provisions for a third crew member and has twin weapons bays of over 20,000 pounds capacity each. It is powered by four F118-GE-100 turbofan engines. The low wing loading provides efficient cruise and good airfield performance. The B-2 bomber exploits breakthroughs in low observables technology (radar, infrared, visual, electromagnetic, and acoustic) to achieve vehicle signatures that allows penetration of current and postulated enemy air defenses. The B-2 has the capability to perform worldwide conventional and nuclear delivery missions consistent with Air Combat Command requirements. Survivability is enhanced by reduction of observable signatures and complementary defense management system. The B-2 employs a low altitude terrain following capability and a penetration speed commensurate with high probability of survival without unduly penalizing mission range. The management and acquisition strategy provides the user a capability for the lowest possible cost.</p> <p>FY 1999 Program Justification: The FY 1999 program contains costs associated with technical orders, interim contractor support, aircrew training device, maintenance training device, peculiar support equipment, program management administrative requirements, long-term software support, and non-recurring (including curtailment). The program transitions from BP10 to BP13 in FY99.</p> <p>FY 2000 Program Justification: The FY 2000 program contains costs associated with technical orders, interim contractor support, peculiar support equipment, program management administrative requirements, long-term software support, training system updates, and non-recurring (including curtailment).</p> <p>FY 2001 Program Justification: The FY 2001 program contains costs associated with technical orders, interim contractor support, peculiar support equipment, long-term software support, program management administrative requirements, and non-recurring (including curtailment).</p>										
			P-1 SHOPPING LIST ITEM NO.	PAGE NO.	Exhibit P-40 Page 1 of 1					

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FY00 PB	A. Appropriation/Budget Activity Title/No. Aircraft Procurement Combat Aircraft, BA01	B. Weapon Model/Series/ Popular Name B-2 Advanced Technology Bomber				C. Manufacturer Name Plant City/State location Northrop Grumman B-2 Div Pico Rivera, CA	D. Date Feb-99		
Weapon System Cost Elements	Ident. Code	FY98 Unit Cost	QTY 0 Tot. Cost	FY99 Unit Cost	Qty 0 Tot. Cost	FY00 Unit Cost	Qty 0 Tot. Cost	FY01 Unit Cost	Qty 0 Tot. Cost
Airframes/CFE	A	NA	8.0	NA	3.3	NA	0.0	NA	0.0
AV 1 UPGRADE		NA	0.0	NA	0.0	NA	0.0	NA	0.0
UPGRADES**			9.3		50.0	NA	0.0	NA	0.0
ENGINE/ACCESSORIES (Eng Model) F118-GE-100	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
AVIONICS									
A. CFE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
WEAPON DELIVERY SYSTEM	A	NA	0.0	NA	0.0	NA	4.0	NA	0.0
OTHER GFE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
ECO (All Flyaway Components)		NA	2.0	NA	1.7	NA	0.0	NA	0.0
NON-RECURRING COSTS									
(Tooling)		NA	0.0	NA	0.0	NA	0.0	NA	0.0
(Other)		NA	10.6	NA	15.9	NA	18.7	NA	5.1
Subtotal FLYAWAY COST			29.9	NA	70.9	NA	22.7	NA	5.1
AIRFRAME PGSE	A	NA	34.7	NA	6.6	NA	2.3	NA	6.0
ENGINE PGSE	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
PECULIAR TRAINING EQUIPMENT	A	NA	0.1	NA	3.7	NA	4.0	NA	0.0
PUBLICATIONS/TECH. DATA	A	NA	13.4	NA	5.9	NA	1.5	NA	0.1
ICS	A	NA	10.4	NA	45.6	NA	47.6	NA	9.9
S/W INVESTMENT	A	NA	74.9	NA	77.6	NA	13.3	NA	5.3
PROG. MGMT. ADM. RQMTS (PMAR)		NA	5.6	NA	11.2	NA	9.4	NA	3.7
OTHER	A	NA	6.7	NA	17.1	NA	6.1	NA	0.0
Subtotal SUPPORT COST		NA	145.8	NA	167.7	NA	84.2	NA	25.0
GROSS P-1 END COST		NA	175.7	NA	238.6	NA	106.9	NA	30.1
LESS: PRIOR YR ADV. PROC			0.0		0.0		0.0		0.0
NET P-1 FULL FUNDING COST (BP10) (BP13 in FY99/OUT)		NA	175.7	NA	238.6	NA	106.9	NA	30.1
Plus Current Year ADV, PROC.			0.0		0.0		0.0		0.0
Other Non P-1 Weapon System Costs									
Spares (Initial & MRSP)(BP16)	A	NA	12.9	NA	55.3	NA	60.8	NA	35.1
Mods (BP11)	A	NA	50.2	NA	15.7	NA	20.1	NA	32.1
Indust Base Preserv (BP 14BCAP)	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
Facilities (BP14; PE 78011F))	A	NA	0.0	NA	0.0	NA	0.0	NA	0.0
TOTAL		NA	238.8	NA	309.6	NA	187.8	NA	97.3

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FY00 PB Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems											
Weapon System: B-2			Date:	Feb-99	PE 11127F 64240F						
	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total
A. General Program Data											
Procurement Qty											
Cum Oper Invent (w/ EMD Refurb)	13	16	17	21	21	21	21	21	21	0	21
No. of Operating Units											
OPTEMPO											
(Flying Hrs or Miles per month)	6716.7	2918.0	4410.0	5891.0	5962.0	5961.0	5961.0	5961.0	5961.0	119220.0	168961.7
Readiness Objective											
Intermediate Level											
Stand-Up date											
Depot Level Stand-Up Date											
B. Acquisition Logistics Resources											
Initial Spares	910.1	12.7	55.0	60.5	34.9	25.5	16.8	9.9	9.6	TBD	1135.0
MRSP	73.5	0.2	0.3	0.3	0.2	0.2	0.2	2.4	2.5	TBD	79.9
Field Level Common Spt Equip											
Proc	14.6	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	17.1
Field Level Peculiar Spt Equip											
RDT&E	539.5	7.1	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	556.1
Proc	309.7	1.0	0.0	1.0	5.4	4.3	2.1	2.0	1.0	0.0	326.5
Depot Level Support Equip/Software											
RDT&E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Proc - Equip	321.5	33.7	6.6	1.3	0.6	0.0	0.0	0.0	0.0	0.0	363.7
Proc - Software Investment	353.5	74.9	77.6	13.3	5.3	0.0	0.0	0.0	0.0	0.0	524.6
PDM Plan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Technical Data/Manuals											
RDT&E	295.4	1.4	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	298.7
Proc	326.5	13.4	5.9	1.5	0.1	3.9	0.0	0.0	0.0	0.0	351.3
Training Services and Training Equip											
RDT&E	886.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	886.8
Proc	503.6	0.1	3.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	511.4
P-1 SHOPPING LIST				PAGE NO.		Exhibit P-6					
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FY00 PB Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems												
Weapon System: B-2				Date: Feb-99		PE 11127F 64240F						
	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total	
C. Operations and Support												
Manpower (Nos.)												
Military												
Officer*		219	228	236	236	236	236	236	236			
Enlisted*		1381	1548	1757	1757	1757	1757	1757	1757			
Civilian		31	31	31	31	31	31	31	31			
Cost (\$)												
Fuel*	11.0	6.3	9.3	9.3	10.7	11.0	11.2	11.4	11.7	296.3	388.2	
Consumables (3400)	64.9	4.4	12.7	16.6	17.8	18.1	18.4	18.8	19.2	486.3	677.2	
Reparables (3400)	17.9	12.4	20.1	52.4	54.6	55.1	55.7	56.8	59.8	1541.8	1926.6	
Sustaining Eng Spt (3400)	107.9	34.0	41.5	47.9	47.4	47.6	50.2	51.3	52.4	1328.6	1808.8	
Interim Contractor Spt (3010)	185.7	10.4	45.6	47.6	9.9	3.0	3.9	0.0	0.0	0.0	306.1	
			P-1 SHOPPING LIST		PAGE NO.							Exhibit P-6
			ITEM NO.							Page 2 of 2		

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FY00 PB SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)								DATE Feb-99			
APPROPRIATION/P-1 Line Item: Aircraft Procurement, Combat Aircraft, BA01			Weapon System: B-2		Equipment Nomenclature: Aircrew & Maintenance Trainers			PE 11127F & 64240F			
Fin Plan	FY97/Prior	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total
Quantity	59										59
Proc	503.6	0.1	3.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	511.4
RDT&E	886.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	570.4
O&S	36.6	9.2	12.8	10.0	10.6	10.8	11.0	11.2	11.4	36.1	159.7

Training System Description

The Training System consists of training equipment hardware, software, and courseware, training missions and classroom academic materials. The maintenance training began in May 1993. Aircrew training began in Jan 94. The maintenance trainers consist of the Computer Maintenance Training System, Weapon System Training Aid, and the Crew Escape System Maintenance Trainer. The Cockpit Procedures Trainer, Weapon System Trainer, and the Mission Trainer are aircrew trainers and the Weapon Loading Trainer is an armament loading trainer. The Training Support Center, System Support Center and Training Library are support devices for the above listed trainers. FY99 and FY00 procurement funds are for Post-Block 30 correction of deficiencies, flight performance updates and concurrency changes. Included is Non-recurring effort for engineering changes, testing and hardware/software integration.

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FY00 PB SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)											DATE			
APPROPRIATION/P-1 Line Item: Aircraft Procurement, Combat Aircraft, BA01			Weapon System: B-2		IOC Initial RFT: DEC 93		Equipment Nomenclature: Aircrew & Maint Trainers			PE 11127F & 64240F				
TRAINING DEVICE BY TYPE	SITE	DELIVERY DATE	READY FOR TRAINING DATE	AVG STUDENT THROUGHPUT	PRIOR YEARS		FY98		FY99		FY00		FY01	
					QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
MAINTENANCE	WAFB, MO	APR 93	MAY 93	575	54	186.7		0.0		2.0		0.0		0.0
AIRCREW	WAFB, MO				5	316.9		0.1		1.7		4.0		0.0
BLOCK 10	"	SEP 93	JAN 94			78.5								
BLOCK 20	"	FEB 96	MAY 96			139.5								
BLOCK 30	"	MAY 97	JUL 97			98.9		0.1		1.7		4.0		0.0
TOTAL					59	503.6		0.1		3.7		4.0		0.0
P-1 SHOPPING LIST ITEM NO.					PAGE NO.			Exhibit P-43 Page 2 of 4						

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FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)	DATE	Feb-99
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Training Device by Type: AIRCREW TRAINERS	Weapon System: B-2
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Description/Justification:
 Contains 3 Weapon System Trainers (WST) and 2 Mission Trainers (MT) needed to conduct aircrew training of the B-2.
 Also contains funding for block updates to maintain concurrency with the air vehicle.

FINANCIAL PLAN	Prior Years		FY98		FY99		FY00		FY01		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device	5	252.5									5	252.5
ECO		6.0										6.0
Nonrecurring		26.8		0.1		1.7		4.0		0.0		32.6
GFE												
Other (Fee)		<u>24.6</u>		<u>0.0</u>								<u>24.6</u>
Total Hardware Costs		309.9		0.1		1.7		4.0		0.0		315.7
SUPPORT COSTS												
Special SE												
ILS		7.0										7.0
Other												
Total Support Costs		7.0										7.0
Software/Courseware												
TOTAL COSTS		316.9		0.1		1.7		4.0		0.0		322.7

	P-1 SHOPPING LIST ITEM NO.	PAGE NO.	Exhibit P-43 Page 3 of 4
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FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)	DATE	Feb-99
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Training Device by Type: MAINTENANCE TRAINERS	Weapon System: B-2
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Description/Justification:
Contains all necessary equipment for maintenance training equipment as well as future block updates to maintain concurrency with the air vehicle.

FINANCIAL PLAN	Prior Years		FY98		FY99		FY00		FY01		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device	54	142.0		0.0		2.0		0.0		0.0	54	144.0
ECO												
Nonrecurring												
GFE												
Other (Fee)												
Total Hardware Costs		142.0		0.0		2.0		0.0		0.0		144.0
SUPPORT COSTS												
Special SE												
ILS		30.6										30.6
Other												
Total Support Costs		30.6										30.6
Software/Courseware		14.1		0.0		0.0		0.0		0.0		14.1
TOTAL COSTS		186.7		0.0		2.0		0.0		0.0		188.7

	P-1 SHOPPING LIST ITEM NO.	PAGE NO.	Exhibit P-43 Page 4 of 4
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FY00 President's Budget

BUDGET ITEM JUSTIFICATION SHEET		Date: FEB 99
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA07, POST PRODUCTION SUPPORT	C-5	

			FY 1997	FY 1998	FY1999	FY 2000	FY 2001	FY 2002	FY 2003	Total
QUANTITY			0	0	0	0	0	0	0	
COST (IN millions)					28.4					28.4

MISSION AND DESCRIPTION:
 These funds buy on C-5 simulator for the Air National Guard. It is part of the AMC replacement program that will reduce aircraft training flights by replacing existing subsystems on the training devices to allow FAA Level C equivalent training. The C-5 will replace the current visual system with a current state-of-the-art, commercial off the shelf system.

FY 99 PROGRAM JUSTIFICATION:
 Funding supports the procurement of one (1) C-5 simulator for the Air National Guard.

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AIRCRAFT COST ANALYSIS EXHIBIT P-5 (Dollars in Millions)	A. Appn/Budget Activity Title/No. Aircraft Proc/BA07 Spt Equip & Fac	B. Popular Name C-5		C. Manufacturer Lockheed		D. Date Feb-99 FY00 President's Budget	
		FY98	QTY 0	FY99	QTY 0	FY00	QTY 0
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
AIRFRAME/CFE ENGINE/ACCESSORIES AVIONICS: CFE/GFE ARMAMENT OTHER GFE							
ECO NON-RECURRING COSTS OTHER COSTS PROGRAM MGT ADMIN REQMTS							
Subtotal FLYAWAY COSTS			0.0		0.0		0.0
AIRFRAME PGSE ENGINE PGSE AVIONICS PGSE PECULIAR TRAINING EQUIPMENT PUBLICATIONS/TECH. DATA OTHER (ICS) OTHER (HAZMAT) OTHER (SUPPORT CONTRACTS) OTHER (PLANT SHUTDOWN)			0.0		28.4		0.0
Subtotal SUPPORT COST			0.0		28.4		0.0
GROSS P-1 COST			0.0		28.4		0.0
20 LESS: Prior Yr Adv. Proc			0.0		0.0		0.0
21 NET P-1 COST			0.0		28.4		0.0

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)					Date: Feb-99 FY00 President's Budget				
APPROPRIATION/P-1 Line Item: 3010		Weapon System: C-5		Equipment Nomenclature: Unit Training Device (UTD) Simulator					
Fin Plan	FY96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	Total
Quantity			0	1	0	0	0		1
Proc			0.0	28.4	0.0	0.0	0.0		28.4
RDT&E									
O&S									
TRAINING SYSTEM DESCRIPTION:									
This activity funds required Unit Training Devices (UTDs) which will enable the Mobility Air Forces to provide C-5 airlift pilots continuation training at squadron locations to ensure safety of flight and to maximize pilot proficiency and utilization of their C-5 aircraft. The C-5 UTD Visual System consists of the latest technology, commercial off-the-shelf image generation system and display. This system will allow C-5 pilots to train visual takeoff and landing approaches, and threat avoidance.									

BUDGET ITEM JUSTIFICATION SHEET				DATE				
				Feb-99				
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Aircraft Procurement, AF/BA07, Aircraft Support Equipment & Facilities		F-15E Tactical Fighter						
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY	0	0	0	0	0	0	0	0
COST (in Millions)	6.0	7.1	7.4	7.5	7.6	7.8	8.0	8.1
<p>MISSION & DESCRIPTION:</p> <p>The F-15 Tactical Fighter is designed for the counter air mission. Air-to-air tasks include combat air patrol, Continental Continental air defense, escort and fighter sweeps in or out of the enemy's ground-controlled intercept environment.</p> <p>Equipped with Pratt & Whitney F100 turbofan engines which enable the F-15 to reach a dash speed of Mach 2.3, it is equipped with air-to-air missiles and a 20mm cannon. The avionics include an advance radar, visual heads-up display, and automatic built-in test system. The F-15 has maneuverability, armament, and fire control needed to surpass the expected capability of enemy aircraft in the late 1990s. Avionics updates being incorporated under a multi-staged improvement program assure aircraft viability into the early-2000s.</p> <p>The F-15E (dual role fighter) retains the basic air-to-air capability of the F-15A-D tactical fighter and adds the systems necessary to meet the urgent requirement for all weather deep penetration and night/under-the-weather air-or-air surface attack. It is a two seat aircraft configured with missionized cockpit, low altitude navigation, targeting, and infrared for night (LANTIRN) capability; automatic terrain following/terrain avoidance; and other improvements necessary to fulfill the deep penetration and night-under-the-weather air-to-air surface attack mission.</p> <p>FY00 PROGRAM JUSTIFICATION:</p> <p>Funding is required for post production support and plant shutdown. Post production support is required to provide repair support for critical air vehicle and ground support equipment assets from the time the equipment is fielded until the assets are organically supportable. Grounding of aircraft will result without this repair support. Plant shutdown is required to dispose of F-15 tooling used during production of F-15 aircraft. The USAF is responsible for properly disposing of production assets at the contractor's facility.</p> <p>Cooperative Programs: Not applicable</p>								

EXHIBIT P-5

AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model/Budget Activity Title/ No.		B. Weapon Model/Series Popular Name		C. Manufacturer		D. Date	
	3010/10328A AF/BA07 Aircraft Support Equip FY00 President's Budget Request		F-15E Tactical Fighter		BOEING		Feb-99	
	FY98		FY99		FY00		FY01	
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. AIRFRAME/CFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. ENGINE/ACCESSORIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. AVIONICS: CFE/GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. LANTIRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. TEWS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. NONRECURRING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. ECO (ALLSUPPORT ITEMS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. TOTAL FLYAWAY COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. AIRFRAME PGSE		0.0		0.0		0.0		0.0
12. ENGINE PGSE/DATA		0.5		0.0		0.0		0.0
13. ALLSUPPORT ITEMS		0.0		0.0		0.0		0.0
14. OTHER (Support Contracts)		4.2		6.2		6.4		6.5
15. OTHER (ICS)		1.3		0.9		1.0		1.0
16. OTHER (Plant Shutdown)		0.0		0.0		0.0		0.0
17. OTHER (HAZMAT)		0.0		0.0		0.0		0.0
18. POST PRODUCTION SUPPORT		0.0		0.0		0.0		0.0
19. TOTAL SUPPORT COST		6.0		7.1		7.4		7.5
20. ADVANCED PROCUREMENT		0.0		0.0		0.0		0.0
21. GROSS P-1 COST		6.0		7.1		7.4		7.5
22. LESS: PRIOR YR ADV. PROC.		0.0		0.0		0.0		0.0
23. NET P-1 COST		6.0		7.1		7.4		7.5

BUDGET ITEM JUSTIFICATION SHEET											DATE: Feb-99	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE						
Aircraft Procurement, AF/BAO7, Post Production Support						F-16 Post Production Support						
	PRIOR YEARS	FY 97	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	FY 04	FY05	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	0	0	0	0	0	0	0	0	0	0
COST (MILLIONS)	110.5	63.1	36.8	37.1	29.1	23.8	13.6	14.7	12.7	13.1	0.0	354.5
INITIAL SPARES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0
TOTAL (MILLIONS)	110.5	63.1	36.8	37.1	29.1	23.8	13.6	14.7	12.7	13.1	0.0	354.5
UNIT COST (MILLIONS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
<p>MISSION AND DESCRIPTION: The F-16 Multi-mission Fighter is a single-seat, fixed-wing, high performance, single engine fighter aircraft. The design, optimized for the 0.8 Mach range, incorporated advanced technology features to enhance its combat capability while minimizing its acquisition, operating, and support costs. The advanced technology features include a high visibility, high "g" cockpit. The F-16 armament consists of a 20mm cannon, air-to-surface and air-to-air missiles, and approximately 11,000 pounds of conventional and guided air-to-surface ordnance. The F-16 replaced the F-4s in the active inventory as well as modernized the reserve forces.</p> <p>FY00 PROGRAM JUSTIFICATION: FY00 effort includes the continuation of prime contract post production support, the procurement of deferred peculiar ground support equipment, unit training devices, and technical order support.</p> <p>FY01 PROGRAM JUSTIFICATION: FY01 effort includes the continuation of prime contract post production support, the procurement of deferred peculiar ground support equipment, unit training devices, and technical order support.</p>												

Weapon System Cost Analysis EXHIBIT (P-5) (Dollars in Millions)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Popular Name		C. Manufacturer Name/Location		D. Date	
	Aircraft Procurement, AF/ BA07 Post Production Support		F-16 Fighting Falcon		Lockheed-Martin Tactical Sys Co Ft. Worth, TX		Feb-99	
Weapon System Cost Elements	FY98		FY99		FY00		FY01	
	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost
QUANTITY		0		0		0		0
1. AIRFRAME/CFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. ENGINE/ACCESSORIES (MODEL F-100;F110)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. AVIONICS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. ECO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. NON-RECURRING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. OTHER COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. FLYAWAY COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. AIRFRAME PGSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. ENGINE PGSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. AVIONICS PGSE	0.0	19.9	0.0	14.5	0.0	14.0	0.0	13.3
13. PEC TRAINING EQUIP	0.0	4.0	0.0	6.4	0.0	4.4	0.0	4.5
14. PUBS/TECH DATA	0.0	5.1	0.0	5.4	0.0	1.8	0.0	1.8
15. ECO(SUPPORT ITEMS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16. OTHER (CFTs)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
17. ICS	0.0	7.4	0.0	6.7	0.0	1.6	0.0	2.4
18. ICSE	0.0	0.3	0.0	3.6	0.0	7.4	0.0	1.8
19. SUPPORT COST	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8
20. GROSS P-1 COST	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8
21. LESS: PRIOR YR ADV PROCUREMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22. NET P-1 COST	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8
23. ADVANCE PROCUREMENT, CURRENT YEAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24. TOTAL (THEN YEAR)	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8
TOTAL	0.0	36.8	0.0	37.1	0.0	29.1	0.0	23.8

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BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99 : FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE
AIRCRAFT PROCUREMENT/BA07, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		INDUSTRIAL RESPONSIVENESS

	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
QUANTITY								
COST (\$K)	23,844	19,029	24,794	25,995	26,265	26,601	27,300	27,857

Mission and Description:

1. 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. 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, weapon acquisition, and logistics support decision processes. Funds in this appropriation are to support the aircraft procurement segment of Air Force activities.

2. Although the elements of cost are broken down in greater detail, two basic activities are funded in this appropriation: Industrial Plants and Industrial Base Activities.

A.B.C.D.F. and H. Air Force Industrial Plants cost elements. Consists of repair and expansion, major rehabilitation, environmental compliance, equipment movement and energy conservation at DoD-owned, contractor-operated industrial facilities. These plants are the backbone of DoD weapon system assembly and maintenance for the B-2, F-15, F-16, C-130, C-5B, F-117 and future F-22.

E. Industrial Base Activities cost element. Provides for identification, analysis, and limited pilots and/or pathfinders for problems, constraints, essential and endangered capabilities in the industrial base sectors (aircraft). Collection and maintenance of industrial (aircraft) data supports affordable acquisition and sustainability requirements.

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PROGRAM COST BREAKDOWN		Date: Feb 99 FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA07, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	INDUSTRIAL RESPONSIVENESS	

(Total Cost in Millions of Dollars)

ELEMENT OF COST	IDENT CODE	FY 1998		FY 1999		FY 2000		FY 2001	
				QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
A. EXPANSIONS	1000								
B. PACKING, CRATING, & HANDLING	2000								
C. CAPITAL TYPE REHABILITATION	3000		9.279		5.779		7.957		8.224
D. REPLACEMENT & MODERNIZATION	4000		0.475		0.477		0.456		0.000
E. INDUSTRIAL BASE ASSESSMENT	6000		2.788		3.040		3.718		4.816
F. ENVIRONMENTAL PROTECTION	7000		11.302		9.733		12.663		13.852
G. INDUSTRIAL MODERNIZATION	8000								
H. POLLUTION PREVENTION	9XXX		0.000		0.000		0.000		0.000
TOTALS			23.844		19.029		24.794		26.892

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**FY 00-01 PRESIDENT'S BUDGET
BP17 WAR CONSUMABLES
FEBRUARY 1999**

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/WAR CONSUMABLES				P-1 NOMENCLATURE: WAR CONSUMABLES (OVERVIEW)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$48,379	\$34,621	\$29,282	\$43,307	\$71,779	\$100,481	\$117,780	\$120,182
<p>Description:</p> <p>1. This program provides funding for the procurement of initial/replacement War Consumables, and includes commodities such as aircraft Tanks, Racks, Adapters, Pylons (TRAP), Missile Rail Launchers, Radio Frequency (RF) (expendable) Towed Decoys, and Fiber Optic Towed Decoys (FOTD). These items are used to support War Reserve Materiel (WRM) requirements and fleet inventory objectives, and are applicable across multiple weapon systems.</p> <p>2. Items to be procured with FY98-01 funds are listed on the attached P-40a followed by individual justifications.</p>								
			P-1 ITEM NO: 73			PAGE NO:		
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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/WAR CONSUMABLES				P-1 NOMENCLATURE: WAR CONSUMABLES (OVERVIEW)						
PROCUREMENT ITEMS	ID CODE	FY1998		FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
LAU-118	A	94	\$6,536							
LAU-117	A	562	\$6,763							
ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)	A	1,372	\$33,136	1,136	\$25,533	889	\$20,853	1,445	\$32,283	
I/L THAN \$5 MILLION	A		\$1,944		\$9,088		\$8,429		\$11,024	
Totals:			\$48,379		\$34,621		\$29,282		\$43,307	
Remarks:										
			P-1 ITEM NO: 73				PAGE NO:			

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/WAR CONSUMABLES				P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	1372	1136	889	1445	1170	2190	1953	1951
COST (in Thousands)	\$33,136	\$25,533	\$20,853	\$32,283	\$27,640	\$48,926	\$44,758	\$45,693
<p>Description:</p> <p>1. The Advanced Airborne Expendable Decoy (AAED) is part of the AN/ALE-50 Radio Frequency (RF) Towed Decoy System which integrates the AAED onto both F-16 and B-1B aircraft. It provides RF protection for the aircraft by acting as an RF repeater to decoy threat systems that engage it, resulting in increased missed distance. The AN/ALE-50 RF Towed Decoy System enhances each platform's countermeasures capability against modern RF missile threats. Major system components for the F-16 are the AAED (includes towline assembly and canister), magazine, launcher/controller and pylons. The major system components for the B-1B are the magazine, launcher, multi-platform launch controller and fairings. The AAED production buys began in FY97 and will continue for a total of 17,306 decoys.</p> <p>2. Failure to procure this Advanced Airborne Expendable Decoy prevents sustainment of projected wartime sortie rates, impeding wartime missions. Air Combat Command (ACC) Operational Requirements Document (ORD) dated 16 May 94 states their need for improved F-16 survivability RF threats. The ALE-50(V)2 answers this need. The ALE-50 has demonstrated a significant improvement to the F-16 survivability against RF missiles. ACC has seen the results and requested the ALE-50(V)2 be placed on all combat coded Block 40/50 F-16's as soon as possible. The number of decoys required to maintain enhanced RF protection in a warfighting scenario is 40 decoys per aircraft. Currently, the decoy budget (FY98-01) only supports 14 decoys per aircraft. This is a three-fold reduction in the ability of the ALE-50(V)2 systems to provide the required level of protection to the warfighter. The ALE-50 production contract is based on variations in quantity (VIQ). If our approved budget does not allow the Air Force to buy the minimum quantity, the contract is violated and requires renegotiation. This renegotiation will result in a 5-10% decoy cost increase, which will increase the AAED total program by \$35 - \$70M. The AAEDs being purchased are based only on F-16 requirements. The B-1B also uses AAED, as an interim capability, until the Integrated Defensive Electronic Countermeasures (IDECM), Fiber Optic Towed Decoy (FOTD) is ready. The IDECM decoy enters production in FY 2001. No additional</p>								
			P-1 ITEM NO: 73			PAGE NO:	Page 1 of 2	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)			DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/WAR CONSUMABLES		P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)		
Description (cont.): quantities of this AAED are being procured for the B-1B. Therefore, if the number of decoys are reduced, both the F-16 and the B-1B will be impacted.				
	P-1 ITEM NO: 73		PAGE NO:	Page 2 of 2

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/WAR CONSUMABLES					P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DECOY	A	1372	22,058	30,264	1136	22,171	25,186	889	23,182	20,609	1445	22,090	31,920
WARRANTY		1372	551	756									
NON RECUR TOOLING				16									
MGT INFORMATION SYS				594									
CONTAINERS	A	58	780	45	47	848	40	37	887	33	60	879	53
NON CONUS SHIPPING				44			49						
CONTINGENT LIABILITY				1,417									
ENGINEERING CHANGE ORDER							258			211			310
TOTALS:				33,136			25,533			20,853			32,283
REMARKS: One container required for every 24 decoys.													
		P-1 ITEM NO: 73					PAGE NO:						
												Page 1 of 1	

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/WAR CONSUMABLES				P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
AAED/FY98	1372	22.058	AFMC/ASC	OPT/FPIF	E-SYSTEMS, GOLETA, CA [1]	DEC 97	FEB 99			
AAED/FY99	1136	22.171	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA [1]	DEC 98	FEB 00			
AAED/FY00	889	23.182	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA [1]	DEC 99	FEB 01	Y		
AAED/FY01	1445	22.090	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA [1]	DEC 00	FEB 02	Y		
REMARKS: 1. OPTION TO FY97 SOLE SOURCE CONTRACT TO E-SYSTEMS, GOLETA, CA.										
				P-1 ITEM NO: 73				PAGE NO:	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE: FEBRUARY 1999		
APPROP CODE/BA: APAF/WAR CONSUMABLES				P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000				
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY								
COST (in Thousands)	\$1,944	\$9,088	\$8,429	\$11,024	\$0	\$0	\$0	\$0
<p>Description:</p> <ol style="list-style-type: none"> 1. The "Items Less Than \$5 Million" line includes commodities such as launchers, tank storage/shipping containers, fiber optic towed decoys, pylon nuclear upgrade kits, and tanks. These items are applicable across multiple weapon systems. These initial/replacement War Consumables requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system. 2. All items have an annual procurement value of less than \$5,000,000. Items requested for procurement in FY00-01 are identified on the following P-40a. 3. Type Item: A 								
			P-1 ITEM NO: 73			PAGE NO:	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 1999	
APPROP CODE/BA: APAF/WAR CONSUMABLES		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN	FY2000		FY2001	
		QTY.	COST	QTY.	COST
LAU-128 LAUNCHER		79	\$1,580	100	\$1,988
F-15 600 GAL FUEL TANK SLOTTED ANGLE STORAGE/SHIPPING CONTAINERS		582	\$221		
IDECM FIBER OPTIC TOWED DECOY (FOTD)				99	\$4,334
LAU-88A/A TRIPLE RAIL LAUNCHERS		584	\$2,023	676	\$2,358
SUU-59C/A PYLONS (NUCLEAR UPGRADE)		47	\$1,628	44	\$1,369
600 GAL FUEL TANK		18	\$2,050	10	\$975
650 GAL CRASHWORTHY FUEL TANK (HH,MH-53)		9	\$927		
TOTALS:			\$8,429		\$11,024
		P-1 ITEM NO: 73			PAGE NO: Page 1 of 1

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BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION/BUDGET ACTIVITY					P-1 NOMENCLATURE			
AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					MISCELLANEOUS PRODUCTION CHARGES			
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)	240,283	204,001	339,624	363,233	380,614	358,091	520,708	431,538
<p>These programs provide for items which (1) are not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, (3) can be managed as separate end items, and (4) contain certain classified programs.</p>								

P-1 Shopping List

Exhibit P-41a, Budget Item Justification for Aggregated Items					Date: February 1999		
Appropriation/Budget Activity	AIRCRAFT PROCUREMENT, AF BA07						
Procurement Items	FY1998	FY1999	FY2000	FY2001			
	(\$000)	(\$000)	(\$000)	(\$000)			
B-1B Conventional Bomb Modules	0	0	0	15,083			
C-130J	0	0	870	263			
C-5 Airborne Broadcast Intelligence	1,483	1,376	1,366	1,405			
Classified/Intelligence Programs	102,551	81,211	128,068	177,590			
Combat Training Range Equipment	9,751	417	17,257	18,672			
Command and Control Module	1,957	0	0	0			
Electronic Warfare Integrated Reprogramming	2,509	5,716	1,923	2,010			
F-22	0	2,894	6,062	7,455			
Judgment Fund Reimbursement	0	0	25,000	25,000			
KC-135 Airborne Broadcast Intelligence	1,490	1,462	1,436	1,410			
Manned Destructive Suppression	0	10,053	0	0			
NATO AWACS Program	68,260	63,324	70,465	56,038			
NAVSTAR Global Positioning System User Equipment	42,376	35,668	36,237	55,287			
Podded Reconnaissance System	6,082	0	0	0			
Pollution Prevention	3,824	1,880	3,097	3,020			
Precision Attack Systems	0	0	47,843	0			
TOTAL	240,283	204,001	339,624	363,233			

DATE: Feb 99

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: Additional Conventional Modules

MODELS OF AIRCRAFT APPLICABLE: B-1B

DESCRIPTION/JUSTIFICATION: This program procures 6-8 additional 10-carry conventional bomb modules for expanded conventional capability to meet mission requirements. The new modules will add 1760 capability to the existing 28-carry Conventional Bomb Modules and Wind Corrected Munitions Dispenser. The 28-carry modules are designed for MK-82 carriage. The 10-carry modules are designed for CBU-87/89/97 carriage. There are currently a total of fifty 10-carry modules in AF inventory. The ACC requirement is for a total of 101 of these modules.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
PROGRAM COST	0	0	0	15,083
TOTAL COST	0	0	0	15,083

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: C-130J

MODELS OF AIRCRAFT APPLICABLE: C-130J

DESCRIPTION/JUSTIFICATION: The funds requested will provide Type 1 (contractor-provided) training for aircrew members and maintenance personnel. Although it is more appropriate to fund this training in Budget Program (BP) 10, the funding was inadvertently placed in BP19. We intend to transfer the FY00 appropriated dollars to BP10 via a below threshold reprogramming. The outyears will be corrected in the FY01 budget cycle.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>
BASIS FOR COST ESTIMATE:				
PROGRAM COST	0	0	870	263
TOTAL COST	0	0	870	263

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FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)

PROJECT TITLE: C-5 Airborne Broadcast Intelligence (ABI)

MODELS OF AIRCRAFT APPLICABLE: C-5

DESCRIPTION/JUSTIFICATION: The AMC Airlift and Air Refueling Mission Area Plans identified a deficiency in the ability to protect aircraft from hostilities during combat operations. The ABI system addresses this deficiency and increases aircrew survivability by providing aircrews with portable, on-aircraft mission equipment to receive and display critical, real-time intelligence information. Strategic mobility aircrews often fly extended missions or transit enroute stations without full intelligence information capability. Information provided prior to mission departure is often outdated or incomplete upon arrival in theater. ABI provides increased threat situational awareness and enables aircrews to make mission modifications to avoid enemy threats under rapidly changing combat conditions. To limit system implementation costs, it is envisioned that ABI will be "snapped on" to any AMC mobility fleet aircraft when this capability is needed. These systems are intended to be interchangeable between KC-135, KC-10, C-141, C-5, and C-17 operational wings as required. This project is a new start to modify and integrate on the C-5 previously developed intelligence communication and display equipment.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
	1,483	1,376	1,366	1,405
TOTAL COST	1,483	1,376	1,366	1,405

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FY 2000 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES (Dollars in Thousands)

PROJECT TITLE: Classified/Intelligence Programs

DESCRIPTION/JUSTIFICATION: Details of the following programs are available on a need-to-know basis.

PROJECTED FINANCIAL PLAN:

BASIS FOR COST ESTIMATE	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
Classified Programs	102,551	48,554	64,404	92,725
Intelligence Programs	0	32,657	63,664	84,865
TOTAL COST	102,551	81,211	128,068	177,590

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FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)

PROJECT TITLE: Combat Training Range Equipment

MODELS OF AIRCRAFT APPLICABLE: A-10, F-15, F-16

DESCRIPTION/JUSTIFICATION: Air Combat Training Systems (ACTS) provide equipment for Air Force ranges to support training/evaluation of aircrews and operational testing of weapon systems and tactics under simulated combat conditions. Originally, range instrumentation systems were known as Air Combat Maneuvering Instrumentation (ACMI) systems. However, the nomenclature has changed over the years to better reflect system upgrades and specific uses of individual systems. The second generation systems, capable of handling 36 aircraft simultaneously, are referred to as Measurement and Debriefing Systems (MDS). The overall range instrumentation systems are now known as Air Combat Training Systems (ACTS), are interoperable with Navy ranges, and provide the capability to train aircrews in air-to-air combat, air-to-ground combat, and electronic warfare, while providing real-time monitoring and control of aircraft during large force exercises and recording events for post-mission debrief and analysis. Congress has directed a Technical Evaluation of the Joint Tactical Combat Training System (JTCTS) and integrated Kadena Interim Training System/Large Area Tracking System. The Air Force and Navy intend to evaluate other systems that may meet the current and future air combat training requirements, along with the directed systems. This technical evaluation will be completed in the second quarter of FY00. Funding will be used to procure the system determined to best meet the Air Force and Navy air combat training requirements. That system will use the Global Positioning System to improve position accuracy, provide the capability to simultaneously monitor an increased number of aircraft over a larger geographic area, and be able to operate in a "rangeless" mode without the necessity of a ground based infrastructure or as a system tethered to a ground monitoring and control system.

PROJECTED FINANCIAL PLAN: BASIS FOR COST ESTIMATE:	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
ACTS Pods	9,751	417	17,145	18,567
TOTAL COST	9,751	417	17,145	18,567

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FY 2000 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: Command and Control Module

MODELS OF AIRCRAFT APPLICABLE: C-141, C-17, KC-10

DESCRIPTION/JUSTIFICATION: The Silver Bullet is a deployable (palletized) communications and Distinguished Visitor comfort package designed to fit on C-141, C-17, and KC-10 aircraft. The Silver Bullet provides a means for senior military and executive officials to work, conference, and rest onboard military aircraft while enroute to deployed locations. The ability to maintain contact with military forces and to keep abreast of rapidly changing situations is provided with onboard communications that include secure and non-secure voice/data/fax world-wide via UHF SATCOM, INMARSAT, and HF. Use of the Silver Bullet allows senior military and government officials to fly into austere locations where support for official government aircraft is non-existent. The requirement to procure two units was deleted by AMC and the remaining money was used to fund improvements on existing Silver Bullets.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
Silver Bullet	1,957	0	0	0
TOTAL COST	1,957	0	0	0

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: Electronic Warfare Integrated Reprogramming (EWIR)

MODELS OF AIRCRAFT APPLICABLE: F-16, F-15, A-10, B-52, B-1B, MC-130, AC-130, MH-53J, MH-60, EF-111

DESCRIPTION/JUSTIFICATION: This program provides electronic countermeasure (ECM) support of the Electronic Warfare Avionics Integration Support Facility (EWAISF) for the EWIR process. The EWAISF is the primary support facility in the development, configuration management, maintenance and testing of electronic warfare system software and reprogramming support tools for Air Combat Command, Air Force Special Operations Command, and Air Mobility Command electronic warfare systems.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
Threat Simulation Equipment/Support Tools	2,509	5,716	1,923	2,010
TOTAL COST	2,509	5,716	1,923	2,010

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: F-22

MODELS OF AIRCRAFT APPLICABLE: F-22

DESCRIPTION/JUSTIFICATION: This request provides resources for units necessary for electronic warfare requirements. Additional information is available on a need-to-know basis.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
	0	2,894	6,062	7,455
TOTAL COST	0	2,894	6,062	7,455

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FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)

PROJECT TITLE: Judgment Fund Reimbursement

MODELS OF AIRCRAFT APPLICABLE: N/A

DESCRIPTION/JUSTIFICATION: In September 1998 a contractor's claim against the AC130U contract was settled as an Alternate Dispute Resolution. The contractor was paid the settlement in FY 1999 from the Treasury Department's judgment fund, which the Air Force is required by law to reimburse. The funds requested in FY00 and FY01 represent the first two installments of the total requirement of \$119.5M in the aircraft procurement program.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>
BASIS FOR COST ESTIMATE:				
PROGRAM COST	0	0	25,000	25,000
TOTAL COST	0	0	25,000	25,000

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: KC-135 Airborne Broadcast Intelligence (ABI)

MODELS OF AIRCRAFT APPLICABLE: KC-135S

DESCRIPTION/JUSTIFICATION: The AMC Airlift and Air Refueling Mission Area Plans identified a deficiency in the ability to protect aircraft from hostilities during combat operations. ABI addresses this deficiency and increases aircrew survivability by providing aircrews with portable, on-aircraft mission equipment to receive and display critical, real-time intelligence information. Strategic mobility aircrews often fly extended missions or transit enroute stations without full intelligence information capability. Information provided prior to mission departure is often outdated or incomplete upon arrival in theater. ABI provides increased threat situational awareness thus enabling aircrews to make mission modifications to avoid enemy threats under rapidly changing combat conditions. To limit system implementation costs, it is envisioned that ABI will be "snapped on" to any AMC mobility fleet aircraft when this capability is needed. These systems are intended to be transferred between KC-135, KC-10, C-141, C-5, and C-17 operational wings as required. This project will provide the resources necessary to integrate this system onto the KC-135.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
	1,490	1,462	1,436	1,410
TOTAL COST	1,490	1,462	1,436	1,410

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FY 2000 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: Manned Destructive Suppression

MODELS OF AIRCRAFT APPLICABLE: F-16

DESCRIPTION/JUSTIFICATION: The AN/ASQ-213 pod, a High Speed Anti-Radiation Missile (HARM) Targeting System (HTS), senses enemy radar emissions and provides accurate targeting information for the F-16 Block 50. The F-16 HTS provides the only USAF HARM suppression capability since the retirement of the F-4G Wild Weasel in FY96. The Air Force has a requirement for 16 additional pods and these pods were placed on contract in Nov 98 with delivery scheduled in FY00. A follow-on Air Force requirement for approximately 10 additional R6 pods was received and validated after award of the Nov 98 contract. We intend to purchase these additional pods within current Air Force TOA.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
	0	10,053	0	0
TOTAL COST	0	10,053	0	0

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FY 2000 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: NATO AWACS Modernization

MODELS OF AIRCRAFT APPLICABLE: E-3A

DESCRIPTION/JUSTIFICATION: NATO's E-3s provide air and maritime surveillance for allied forces in the NATO area of operation. This project provides the U.S. contribution to the NATO Airborne Early Warning and Control Near-Term Modernization Program to update NATO E-3s with capabilities similar to the U.S., United Kingdom, and French E-3s under the 1990 addendum to the Multilateral Memorandum of Understanding. Upgrades include the anti-jam radio (Have Quick A-Nets), JTIDS TADIL J Data Link, improved COMSEC equipment (ANDVT), and color consoles. Joint US/NATO Cooperative developments include Electronic Support Measures (ESM), and the Radar System Improvement Program (RSIP). NATO AWACS also includes the U.S. contributions to the Mid-Term Modernizations Program beginning in FY98. An amendment to the 1990 Multilateral Memorandum of Understanding, for the mid-term program, was completed on 13 August 1997. Some of the upgrades identified for the mid-term effort include man-machine interface, multi-sensor integration, digital communications, and satellite communications. Near- and mid-term projects will maintain fleet operational effectiveness and interoperability well into the 21st century.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
AWACS - Near-Term	42,888	19,959	11,500	0
AWACS - Mid-Term	25,372	43,365	58,965	56,038
TOTAL COST	68,260	63,324	70,465	56,038

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: NAVSTAR Global Positioning System (GPS) User Equipment

MODELS OF AIRCRAFT APPLICABLE: C-17A, C-130, E-8, and F-117

DESCRIPTION/JUSTIFICATION: NAVSTAR GPS is a space-based radio navigation system that provides users with precise position, velocity, and time using passive receivers on a day/night all-weather world-wide basis. These funds provide for the procurement of user equipment and associated costs for the above aircraft. This program also includes production engineering, testing, and other support to all GPS equipment.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
Non-recurring/Integration	42,376	35,668	36,237	55,287
TOTAL COST	42,376	35,668	36,237	55,287

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FY 2000 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: TARS Podded Reconnaissance System

MODELS OF AIRCRAFT APPLICABLE: F-16C, Block 30

DESCRIPTION/JUSTIFICATION: The TARS Podded Reconnaissance System (PRS) provides the USAF with a fighter-based podded reconnaissance capability to satisfy the requirement for responsive, under-the-weather, high resolution, visible light imagery. The system will consist of electro-optical sensors, a pod management system, and recorder carried in a pod on the F-16, and a small Common Imagery Ground/Surface System (CIG/SS) compliant ground exploitation system. All systems will be operated by the Air National Guard (ANG). The concept of operations distributes the systems (four per squadron) among five ANG F-16 squadrons. The FY98 funds have procured the medium altitude mid-bay sensors.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
TARS	6,082	0	0	0
TOTAL COST	6,082	0	0	0

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: Pollution Prevention

MODELS OF AIRCRAFT APPLICABLE: N/A

DESCRIPTION/JUSTIFICATION: Installations and Government Owned, Contractor Operated (GOCO) facilities throughout the Air Force require and are authorized equipment, facility projects, and services that must be acquired to accomplish the DoD and Air Force pollution prevention goals. These goals are a direct result of the Pollution Prevention Act of 1990, Montreal Protocol, Executive Orders 12856 and 12873, the DoD Comprehensive Pollution Prevention Strategy, and the Air Force Pollution Prevention Strategy. This budget item identifies the pollution prevention initiatives required to reduce and prevent harmful releases of hazardous and toxic materials to the air, land, and water. It includes requirements such as refrigerant recovery equipment, recycling equipment, efforts to reduce solid waste generation, enhanced hazardous material management practices, hazardous waste minimization efforts, and opportunity assessments to identify pollution prevention opportunities.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:				
PROGRAM COST	3,824	1,880	3,097	3,020
TOTAL COST	3,824	1,880	3,097	3,020

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: Precision Attack Systems

MODELS OF AIRCRAFT APPLICABLE: F-16C/D Block 25, 30, 32

DESCRIPTION/JUSTIFICATION: Funds the procurement of Northrop Grumman LITENING II Targeting Pods for the Air Force Reserve and Air National Guard. The stated requirement is for 168 pods. The initial buy will outfit the AFRC units and the follow-on buy will complete the ANG procurement. The plan is to provide eight pods to each unit. The unique reliability and maintenance (R&M) aspect of the LITENING II system lessens both the overall footprint and mobility capacity needed to deploy Guard/Reserve units.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>
BASIS FOR COST ESTIMATE:				
	0	0	47,843	0
TOTAL COST	0	0	47,843	0

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BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION/BUDGET ACTIVITY					P-1 NOMENCLATURE			
AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					COMMON ELEC COUNTERMEASURES EQUIPMENT			
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)	6,426	11,928	4,866	4,959	5,151	5,292	5,430	5,541
<p>These programs provide for electronic countermeasures and related support equipment which (1) is not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, and (3) can be managed as separate end items.</p>								

P-1 Shopping List

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**FY 2000 PRESIDENT'S BUDGET SUBMISSION
COMMON ELECTRONICS COUNTERMEASURES FACT SHEET
(Dollars in Thousands)**

PROJECT TITLE: ALQ-184/ALQ-131

This project supports the acquisition of kits to modify the ALQ-119 into the ALQ-184 and ALQ-131 Block II pod configurations to counter terminal and airborne interceptor radar systems. The dollars in FY99 include Congressional adds for the ALE-50 towed decoy program and for the ALQ-184 sustainment effort. The FY00 request will provide funding for software upgrades, ECPs, program support, and product improvement.

PROJECTED FINANCIAL PLAN:

BASIS FOR COST ESTIMATE:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
ALQ-184/ALQ-131	6,426	11,928	4,866	4,959
TOTAL COST	6,426	11,928	4,866	4,959

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET					DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					P-1 NOMENCLATURE MANNED RECONNAISSANCE SYSTEMS			
	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)	171,417	141,402	130,129	119,063	128,018	125,599	117,141	117,855
<p>This program provides centralized funding for multi-Service and Air Force requirements to field future airborne reconnaissance systems.</p>								

P-1 Shopping List

UNCLASSIFIED

UNCLASSIFIED

DATE: Feb 99

P-1900

FY 2000 PRESIDENT'S BUDGET SUBMISSION
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET
(Dollars in Thousands)

PROJECT TITLE: Manned Reconnaissance System

DESCRIPTION/JUSTIFICATION: The programs in this P-1 line are available on a need-to-know-basis.

PROJECTED FINANCIAL PLAN:

	<u>FY 98</u>	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>
BASIS FOR COST ESTIMATE:				
PROGRAM COST	171,417	141,402	130,129	119,063
TOTAL COST	171,417	141,402	130,129	119,063

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