# 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** 



# Volume I AIRCRAFT PROCUREMENT

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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.

# UNCLASSIFIED 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** 

**EGPWS - Enhance Ground Proximity Warning System** 

**EPA - Economic Price Adjustment** 

EW - Electronic Warfare

**EWAISP - 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 - Multivear 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** 

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 Veriticle 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** 

# UNCLASSIFIED 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

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

				N	MILLIONS	OF DOLLARS		
LINE NO ITEM NOMENCLATURE			COST	QUANTITY	COST	FY 2000 QUANTITY C	OST QUANT	FY 2001 I
BUDGET ACTIVITY 01: COMBAT AIRCRAFT								
STRATEGIC OFFENSIVE								
1 2.75 INCH ROCKET MOTOR ADVANCE PROCUREMENT (CY) (FY 2000 FOR FY 2008) (MEMO)								τ
2 B-1B (MYP)	В		10.7					τ
3 B-2A (MYP)	В		175.7					τ
TACTICAL FORCES				,				
4 F-22 RAPTOR LESS: ADVANCE PROCUREMENT (PY)	A			2	(650.9) (-71.5)	, ,	1.2)	.0 (2,426.5) t (-278.8) t
					579.4	1,57		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)			73.3 (71.2) (.2) (.4)		189.7	27	7.1	396.2 t
(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)			(.6) (.9)		(189.7)	(27	7.1)	(396.2)
6 F-15A LESS: ADVANCE PROCUREMENT (PY)	A	5	(232.9) (-18.9)		(11.0)			Ţ
			214.0					
7 F-15A ADVANCE PROCUREMENT (CY) (FY 1998 FOR FY 1999) (MEMO)								τ
8 F-16 C/D (MYP)	A	3	79.0	1	29.9	10 25		τ
TOTAL COMBAT AIRCRAFT			552.7		799.0	2,10		2,544.0

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#### DEPARTMENT OF THE AIR FORCE FY 2000/2001 PROCUREMENT PROGRAM

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE DATE: 20 JAN 1999

					P	MILLIONS	OF DOLLARS	5			_
LINE NO	ITEM NOMENCLATURE	IDENT CODE	QUANTITY	1998 COST	FY QUANTITY	COST			FY QUANTITY		S E C
	CTIVITY 02: AIRLIFT AIRCRAFT									·	-
TACTICA	L AIRLIFT										
9 C-17 LESS	(MYP) : ADVANCE PROCUREMENT (PY)	В	9	(2,104.1) (-245.1)		(2,915.6) (-327.2)	15 (	(-359.5)		(3,421.6) (-360.9)	
				1,858.9		2,588.4		3,080.1		3,060.7	
10 C-17 ADVAI (FY :	(MYP) NCE PROCUREMENT (CY) 1998 FOR FY 1999) (MEMO)			272.0 (272.0)		302.6		304.9		307.8	U
(FY :	1999 FOR FY 2000) (MEMO) 2000 FOR FY 2001) (MEMO) 2001 FOR FY 2002) (MEMO)			(272.0)		(302.6)		(304.9)		(307.8)	
OTHER A	IRLIFT									(55,15)	
11 WC-1	30 .	A	2	123.8	1	75.2					υ
12 EC-13	30J	A	1	48.4	1	84.8					U
13 C-13	он	A				11.1					Ū
14 C-13	υσ	A		25.6		29.4		30.6		30.9	U
TOTAL AIR	RLIFT AIRCRAFT			2,328.7		3,091.5		3,415.7		3,399.5	
BUDGET AC	CTIVITY 03: TRAINER AIRCRAFT										
OPERATIO	ONAL TRAINERS										
15 JPATS	S	А	22	73.3	22	105.9	21	88.2	27	97.2	ŭ
TOTAL TRA	AINER AIRCRAFT			73.3		105.9		88.2		97.2	

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#### DEPARTMENT OF THE AIR FORCE FY 2000/2001 PROCUREMENT PROGRAM

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

					I	MILLIONS	OF DOLLARS	3			
LIN NO	ITEM NOMENCLATURE	CODE	FY QUANTITY	COST	QUANTITY	COST	FY QUANTITY	COST	FY QUANTITY		
	GET ACTIVITY 04: OTHER AIRCRAFT										
HE	LICOPTERS										
16	V-22 OSPREY LESS: ADVANCE PROCUREMENT (PY)	Α				(22.2)		(29.2)	4	(-20.3)	
						22.2		29.2		338.4	
17	V-22 OSPREY ADVANCE PROCUREMENT (CY)							20.3		27.2	U
	(FY 2000 FOR FY 2001) (MEMO) (FY 2001 FOR FY 2002) (MEMO)							(20.3)		(27.2)	
MIS	SSION SUPPORT AIRCRAFT										
18	SMALL VCX	A	1	5.7	4	160.2					U
	C-32A LESS: ADVANCE PROCUREMENT (PY)	A	2	(180.8)	2	(160.4)					U
				180.8		160.4					
	C-32A ADVANCE PROCUREMENT (CY) (FY 2000 FOR FY 2001) (MEMO) (FY 2001 FOR FY 2002) (MEMO)										U
21	CIVIL AIR PATROL A/C	A	27	2.9	27	3.0	27	2.5	27	2.6	U
OTI	HER AIRCRAFT										
22	TARGET DRONES	А						36.2		37.4	U
23	E-8C LESS: ADVANCE PROCUREMENT (PY)	А	1	(369.6) (-67.0)	_	(477.7) (-18.0)		(316.2) (-35.9)		(11.5)	
				302.6		459.6		280.3		11.5	
24	E-8C ADVANCE PROCUREMENT (CY) (FY 1998 FOR FY 1999) (MEMO)			18.0 (18.0)		35.9					U
	(FY 1999 FOR FY 2000) (MEMO)			(20.0)		(35.9)					

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#### DEPARTMENT OF THE AIR FORCE FY 2000/2001 PROCUREMENT PROGRAM

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE DATE: 20 JAN 1999

					M	MILLIONS	OF DOLLAR	S			-
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY QUANTITY	1998 COST	QUANTITY	1999 COST	FY QUANTITY	2000 COST		2001 COST	S E C
25 HAEU	AV	A								31.5	- U
26 PRED	ATOR UAV	A	20	135.8	15	114.2	3	38.0	6	22.6	U
TOTAL OT	HER AIRCRAFT			645.8		955.5		406.4		471.3	
BUDGET A	CTIVITY 05: MODIFICATION OF	F INSERVICE A	AIRCRAFT								
STRATEG	IC 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-11	7	A		24.9		25.6		34.6		29.6	U
TACTICA	L 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-1	11	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-17	A	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-ST	OL	A		*							U

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#### DEPARTMENT OF THE AIR FORCE FY 2000/2001 PROCUREMENT PROGRAM

DATE: 20 JAN 1999

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

	MILLIONS OF DOLLARS  S IDENT FY 1998 FY 1999 FY 2000 FY 2001							
LINE NO ITEM NOMENCLATURE	IDENT CODE	FY 1998 QUANTITY COST	FY 1999 QUANTITY COST	FY 2000 QUANTITY COST	FY 2001 QUANTITY COST	E		
42 C-32A	A			.5	24.6	U		
43 C-37A	Α			.4	. 4	U		
44 C-137	A	2.0				U		
45 C-141	A	43.4	33.2	10.0	.8	ט		
TRAINER AIRCRAFT								
46 T-1	Α	6.7	7.6	*		U		
47 T-3 (EFS) AIRCRAFT	A	3.0	.1	2.2	3.5	U		
48 T-38	Α	7.2	50.4	94.5	147.1	U		
49 T-41 AIRCRAFT	A	.1	.1	.1	.1	U		
50 T-43	Α	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	А	6.0	6.6	3.5	12.9	Ū		
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

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE DATE: 20 JAN 1999

				MILLIONS	MILLIONS OF DOLLARS			
LINE NO	ITEM NOMENCLATURE	IDENT CODE				FY 2001 QUANTITY COST		
63 H-60		A	11.2	17.1	15.6	20.0	7	
64 OTHER	AIRCRAFT	A	34.2	17.2	20.2	12.1	1	
65 PREDA	TOR MODS	Α		3.5			Ţ	
OTHER MO	DIFICATIONS							
66 CLASS	IFIED PROJECTS	Α	7.2	7.5	9.4	17.2		
TOTAL MOD	IFICATION OF INSERVICE AIRCRAFT		1,489.9		2,013.5	2,187.6		
BUDGET AC	TIVITY 06: AIRCRAFT SPARES AND	REPAIR	PARTS					
AIRCRAFT	SPARES + REPAIR PARTS							
67 SPARE	S AND REPAIR PARTS	A	336.1	520.9	420.9	420.2	1	
TOTAL AIR	CRAFT SPARES AND REPAIR PARTS		336.1	520.9	420.9	420.2		
BUDGET AC	TIVITY 07: AIRCRAFT SUPPORT EQU	IPMENT	AND FACILITIES					
COMMON S	UPPORT EQUIPMENT							
68 COMMO	N SUPPORT EQUIPMENT	Α	144.0	157.7	171.4	183.2	1	
POST PRO	DUCTION SUPPORT							
69 A-10		Α	2.6	11.4	8.3		1	
70 B-2A		Α		238.6	106.9	30.1	1	
71 C-5		Α		28.4			τ	
72 F-15	POST PRODUCTION SUPPORT	Α	6.0	7.1	7.4	7.5	1	
73 F-16	POST PRODUCTION SUPPORT	A	36.8	37.1	30.0	26.1	1	
INDUSTRI	AL PREPAREDNESS							
74 INDUS	TRIAL PREPAREDNESS	Α	23.8	19.0	24.8	26.0	1	

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#### UNCLASSIFIED

#### DEPARTMENT OF THE AIR FORCE FY 2000/2001 PROCUREMENT PROGRAM

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 20 JAN 1999

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY QUANTITY	1998 COST	FY 1999 QUANTITY COST	FY 2000 QUANTITY COST	FY 2001 QUANTITY COST	S E C
WAR CON	SUMABLES							
75 WAR	CONSUMABLES	Α		48.4	34.6	29.3	43.3	U
OTHER P	RODUCTION CHARGES							
76 MISC	PRODUCTION CHARGES	А		240.3	204.0	339.6	363.2	U
COMMON	ECM EQUIPMENT							
77 COMM	ON ECM EQUIPMENT	Α		6.4	11.9	4.9	5.0	U
OTHER P	RODUCTION CHARGES - SOF							
78 CANC	ELLED ACCOUNT PY ADJUSTMENTS	A		5.8				U
DARP								
79 DARP	•			171.4	141.4	130.1	119.1	U
TOTAL AI	RCRAFT SUPPORT EQUIPMENT AND FA	CILITIES		685.6	891.3	852.7	803.3	
TOTAL AI	RCRAFT 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.

AIRCRAFT COST ANALYSIS EXHIBIT P-5	A. Appn/Bu Activity Tit	-	B. Popular	· Name	C. Manufa	cturer	D. Date FY00 PB	Feb-99
(Dollars in Millions)			B-1B		Rockwell Ir	nt'l	110012	
	FY98	QTY	FY99	QTY	FY00	QTY	FY01	QTY
	Unit	Total	Unit	1	Unit	Total	l l	Total
	Cost		Cost	1	Cost	Cost	l l	Cost
AIRFRAME/CFE ENGINE/ACCESSORIES Eng Model: AVIONICS		0.0		0.0		0.0		0.0
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		О
Program Management Administration (PMA)  Subtotal SUPPORT COST		10.7		0.0		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

							DATE:	Feb-99		
FY00 PB	<b>BUDGET IT</b>	EM JUS	TIFICATION	ON SHEE	T					
APPROPRIATION/BUDGE	T ACTIVITY						P-1 ITEM NO	OMENCLATU	IRE	
AIRCRAFT PROCUREME	ENT/BA01, COMB	AT AIRCRAI	FT (BA07 FO		B-2					
	FY98/PRIOR	FY99	FY00	FY01	FY02	FY03	FY04	FY05	тс	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

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-1 5	SHOPPING LIST	PAGE NO.	Exhibit P-40
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WEADON EVETEN COST	14.4	· · · · · · · · · · · · · · · · · · ·	UNCLAS			14		1	
WEAPON SYSTEM COST	A. Appropria		B. Weapon Mo	del/Series/ Popu	ılar Name	C. Manufacture		D. Date	
ANALYSIS EXHIBIT (P-5)	Activity Title					Plant City/Sta			
FY00 PB	Aircraft Pro		B-2 Advanced		Bomber	Northrop Grumma		Feb-99	
101	Combat Airc		FY98 & Prior			Pico Rivera, C			
Weapon System Cost Elements	Ident.	FY98	QTY 0	FY99	Qty 0	FY00	Qty 0	FY01	Qty 0
	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost
Airframes/CFE	A	NA NA	8.0	NA	0.0	NA	0.0	NA	0.0
A/V 1 UPGRADE		NA NA	0.0	NA	0.0	NA	0.0	NA NA	0.0
UPGRADES**			9.3		0.0	NA	0.0		0.0
ENGINE/ACCESSORIES	A	NA NA	0.0	NA	0.0	NA	0.0	NA NA	0.0
(Eng Model) F118-GE-100									0.0
AVIONICS								1	
A. CFE	l a	NA NA	0.0	NA NA	0.0	NA	0.0	NA	0.0
WEAPON DELIVERY SYSTEM	A	NA NA	0.0	NA NA	0.0	NA NA	0.0	NA NA	0.0
OTHER GFE		1	l l			l I		I	
	Α	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 NA	0.0
(Other)		NA	10.6	NA	0.0	NA	0.0	NA NA	0.0
							0.0	'```	0.0
Subtotal FLYAWAY COST			29.9	NA	0.0	NA	0.0	NA NA	0.0
AIRFRAME PGSE	A	NA NA	34.7	NA NA	0.0	NA NA	0.0	NA NA	0.0
ENGINE PGSE	Â	NA NA	0.0	NA NA	0.0	NA NA	0.0	NA NA	
PECULIAR TRAINING EQUIPMENT	Â	NA NA	0.0	NA NA		NA NA			0.0
PUBLICATIONS/TECH. DATA	Â	NA NA	1	NA NA	0.0		0.0	NA NA	0.0
ICS	I		13.4	1	0.0	NA	0.0	NA NA	0.0
S/W INVESTMENT	A	NA	10.4	NA	0.0	NA	0.0	NA	0.0
	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 NA	6.7	NA NA	0.0	NA	0.0	NA	0.0
Subtotal SUPPORT COST		NA	145.8	NA NA	0.0	NA	0.0	NA 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							5.0		] 5.0
Spares (Initial & MRSP)(BP16)	A	NA	12.9	NA	0.0	NA	0.0	NA	0.0
Mods (BP11)	Â	NA NA	50.2	NA NA	0.0	NA NA	0.0	NA NA	
Indust Base Preserv (BP 14BCAP)	Â	NA NA	0.0	NA NA	0.0	NA NA	0.0	NA NA	0.0
Facilities (BP14; PE 78011F))	Ä	NA NA	0.0	NA NA	0.0	NA NA	0.0	NA NA	0.0 0.0
TOTAL		NA	238.8	NA NA	0.0	NA NA	0.0	NA NA	0.0
			P-1 SHOPPING L		PAGE NO.	11/1	0.0	1 11/5	Exhibit P-5
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FY00 PB	Acquisition	Logistics	and Operati	ons & Suppo	rt Funding fo	r Selected W	eapon System	S			
Weapon System: B-2			Date:	Feb-99		PE 11127F (	54240F				
BA01 FY98 and Prior ONLY	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	тс	Total
A. General Program Data Procurement Qty Cum Oper Invent (w/ EMD Refurb) No. of Operating Units OPTEMPO	13	16	17	21	21	21	21	21	21	0	21
(Flying Hrs or Miles per month) Readiness Objective Intermediate Level Stand-Up date Depot Level Stand-Up Date	6716.7	2918.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119220.0	128854.7
B. Acquisition Logistics Resources Initial Spares MRSP Field Level Common Spt Equip	910.1 73.5	12.7 0.2	0.0 0.0	TBD TBD	922.8 73.7						
Proc Field Level Peculiar Spt Equip	14.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1
RDT&E Proc Depot Level Support Equip/Software	539.5 309.7	7.1 1.0	0.0 0.0	546.6 310.7							
RDT&E Proc - Equip Proc - Software Investment PDM Plan	0.0 321.5 353.5 0.0	0.0 33.7 74.9 0.0	0.0 0.0 0.0 0.0	0.0 355.2 428.4 0.0							
Technical Data/Manuals RDT&E Proc	295.4 326.5	1.4 13.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0 0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0	296.8 339.9
Training Services and Training Equip RDT&E Proc	886.7 503.6	0.1 0.1	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	
			P-1 SHOPPING ITEM NO.	LISI	PAGE NO.						Exhibit P-6 Page 1 of 2

FY00 PB	Acquisition Lo	ogistics and	Operations &	Support Fund	ing for Select	ted Weapon S	ystems	. 2			
Weapon System: B-2			Date:	Feb-99		PE 11127F 6	4240F	_		,	
BA01 FY98 and Prior ONLY	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	тс	Total
C. Operations and Support  Manpower (Nos.)  Military  Officer*  Enlisted*  Civilian  Cost (\$)  Fuel*  Consumables (3400)  Reparables (3400)  Sustaining Eng Spt (3400)  Interim Contractor Spt (3010)	11.0 64.9 17.9 107.9 185.7	219 1381 31 6.3 4.4 12.4 34.0 10.4	0 0 0.0 0.0 0.0 0.0 0.0	0 0 0 0.0 0.0 0.0 0.0	0 0 0 0.0 0.0 0.0 0.0 0.0	0 0 0 0.0 0.0 0.0 0.0	0 0 0 0.0 0.0 0.0 0.0	0 0 0 0.0 0.0 0.0 0.0	0 0 0.0 0.0 0.0 0.0	296.3 486.3 1541.8 1328.6 0.0	313.6 555.6 1572.1 1470.5 196.1
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UNCLASSIFIED P-1 SHOPPING LIST ITEM NO.

PAGE 1 OF 1 PAGE EXHIBIT P-21

FY00 PB	SIMULATO	R AND TRA	INING DEVIC	E JUSTIFIC	ATION (\$ M)	ı		DATE		Feb-99	
APPROPRIATION/P-1 Aircraft Procurement, Co FY98 & Prior ONLY		BA01	Weapon Sys B-2	stem:		Nomenclatur Maintenance		PE		11127F & 6	4240F
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	503.7
RDT&E	886.7	0.1	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	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 beganin May 1993. Aircrew training began in Jan 94. The maintenance trainers consist of the Computer MaintenanceTraining 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 concurrancy changes. Included is Non-recurring effort for engineering changes, testing and hardware/software integration.

	LIST PAGE NO.	Exhibit P-43
ITEM NO.		Page 1 of 4

	_			-	UNCLAS	SOIFIED								
FY00 PB			RAINING DEV	ICE JUSTIFICA	TION (\$ N	M)				DATE		Feb-99		
APPROPRIATION/P- Aircraft Procurement, Combat Aircraft, BAC			Weapon Syst B-2	em:	IOC Initial RF	T: DEC 93		ent Nomenc & Maint Tra		PE	11127F	& 64240F		
TRAINING DEVICE	SITE	DELIVERY DATE	READY FOR TRAINING	AVG STUDENT	PRIOF	RYEARS	F	Y98		-Y99	FY	00	FY0	1
BY TYPE	<u> </u>		DATE	THROUGHPUT	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
<u>AIRCREW</u>	WAFB, MO				5	316.9		0.1		0.0		0.0		0.0
BLOCK 10 BLOCK 20 BLOCK 30	יי וכ	SEP 93 FEB 96 MAY 97	JAN 94 MAY 96 JUL 97			78.5 139.5 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 ITEM NO.	LIST	PAG	GE NO.						Exhibit P-43 Page 2 of 4		

FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)		DATE	Feb-99
Training Device by Type:		Weapon System:		
AIRCREW TRAINERS	BA 01 FY98 and Prior ONLY	B-2		

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.

	Prio	r Years	F	Y98	F	Y99	FY0	0	F	Y01	Tota	Costs
FINANCIAL PLAN	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS									į			
Device	5	252.5									5	252.5
ECO		6.0										6.0
Nonrecurring GFE		26.8		0.1		0.0		0.0		0.0		26.9
Other (Fee)		<u>24.6</u>		<u>0.0</u> 0.1								<u>24.6</u> 310.0
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								1		7.0
Software/Courseware			=								į	
TOTAL COSTS		316.9		0.1		0.0		0.0		0.0		317.0
		l		P-1 SHOPPIN	L G LIST	PAGE NO.	<u> </u>		l	<u></u>		Exhibit P-43
				ITEM NO.								Page 3 of 4

FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFI	CATION (\$ M)	DATE	Feb-99
Training Device by Type:		Weapon System:		
MAINTENANCE TRAINER	S BA 01 FY98 and Prior ONLY	B-2		
Description/Justification:				

Description/Justification:

Contains all necessary equipment for maintenance training equipment as well as future block updates to maintain concurrency with the air vehicle.

	Prio	r Years	F	Y98	F	Y99	F	Y00	F	Y01	Tota	l Costs
FINANCIAL PLAN	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS Device ECO Nonrecurring	54	142.0		0.0		0.0		0.0		0.0	54	142.0
GFE Other (Fee) Total Hardware Costs		142.0		0.0		0.0		0.0		0.0		142.0
SUPPORT COSTS Special SE ILS Other		30.6										30.6
Total Support Costs		30.6								i.		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 ITEM NO.	G LIST	PAGE NO.						Exhibit P-43 Page 4 of 4

Exhibit P-40, Budget Item	ı Justificat	ion						Date:	Feb-99				
Appropriation/Budget Ac	-	·						P-1 Line Ite					
Aircraft Procurement/BA01	Prior	ID	Prior	PY	CY	BY1	BY2	F-22 Advan	BY2+2	BY2+3	BY2+4	<b>T</b> _	
	Years	Code	Years	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Qty	N/A	Α	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 Sy				Date:	Feb-99					
		F-22 Advance		al Fighter								
Appropriation (Treasury) Code/CC/BA		em Control I	Number	ID Code		P-1 Line Ite	m Nomenci	ature			<del>, , , , , , , , , , , , , , , , , , , </del>	
Aircraft Procurement/AF/BA01 Combat A	Aircraft			Α		F-22 Advance	ced Tactical	Fighter				
WBS COST ELEMENTS		PYs	F	Ý97	F	Y98	FY	99	FY	00	FY	01
(Tailor to System/Item Rqmts)	ID	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
	Code	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	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	C	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												00.0
Interim Supply Support (ISS)*							i			127.9		*:
Peculiar Training Equipment												
Publications/Tech Data		1 1								İ		
ECO		1		}								
Other		1 1		1				11.6		34.0		24.7
Program Management Admin				<u> </u>								
Subtotal Support Costs		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 spaces support for both the airframe and engines, to the government

\*\* EY01 ISS will be submitted with the EY01 President's Budget Submission

Exhibit P-5a, Procurement His	story and Planning			Weapon Sy	ystem			Date:	Feb-99	
				F-22 Advan	ced Tactical f	ighter				
Appropriation/Budget Activity	<i>i</i>	<del></del>				P-1 Line Ite	m Nomencla	ture		
Aircraft Procurement, AF/BA01	Combat Aircraft					F-22 Advanc	ed Tactical F	ighter		
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
AIR VEHICLE <sup>(1)</sup>										
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 <sup>(2)</sup>										
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		
					:					
								•		

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

<sup>(2)</sup> 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).

<sup>(3)</sup> Unit costs do not include non-recurring costs.

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P-1 Shopping List - Item No 20-X

Page No 1

Exhibit P-21, Produc	tion	Sch	edul	е	•										Date	:	Feb	-99										,		
Appropriation (Trea	s) Co	ode/C	C/B	A/BS	A/Ite	m C	ontro	ol No		Wea F-22			em						nencl ctical											
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	Man	ufac	turer	's										A	LT		ALT			nitial			eord						Unit	
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Exhibit P-40, Budget Item	Justification							Date:	Feb-99				
Appropriation/Budget Ac	tivity					<del></del>		P-1 Line I	tem Nome	nclature			
Aircraft Procurement, AF (	Advance Procure	ment)/BA0	1, Combat	Aircraft				F-22 Adva	nced Tactio	al Fighter			
	Prior	ID	Prior	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	To	
	Years	Code	Years	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	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-40

Exhibit P-10, Advance Procurement Requires	ments Analysis			Budget Year F	or Fiscal Year Program FY99 I	or FY00	
(PROCUREMENT OF ADVANCE DESIGN AND	MATERIAL)			Date:	Feb-99		
(TOA, Dollars In Millions)				i			
Weapon system Type (Model/Series No.)		First System Award Date	First System Cor	npletion Date	Interval Between Systems		
F-22 Advanced Tactical Fighter		Dec-98	Mar-02	2	(Months)	1-2	
		(TOA, \$ in Mil	lions)				
Advance Procurement/Advance Funding	Quantity	Date Contract Awd	Delivery D	Date of First	Production Lead Time	Unit cost	Total Cost
1		Planned/Required	Equip Re	eq'd/Actual	in Months Total Req'd		
Items			C	ost	(Adm/Prod) Actual	(\$M)	(\$M)
DMS* Parts and Redesign for Air Vehicle	N/A	Dec-98	Ma	ar-02	39 months	N/A	20.5
					<del></del>		
CFE for Air Vehicle	6	Dec-98	Ma	ar-02	39 months	28.0	168.0
CFE for Engines	6	Dec-98	Ju	n-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 Requiren	nents Analysis		7	Budget Year Fo	or Fiscal Year Program FY00 fo	or FY01	
(PROCUREMENT OF ADVANCE DESIGN AND	MATERIAL)			Date:	Feb-99		
(TOA, Dollars in Millions)							
Weapon system Type (Model/Series No.)		First System Award Date	First System Corr	pletion Date	Interval Between Systems		
F-22 Advanced Tactical Fighter		Dec-99	Feb-03	, ,	(Months)	1-2	
		(TOA, \$ in M	fillions)				
Advance Procurement/Advance Funding	Quantity	Date Contract Awd	Delivery D	ate of First	Production Lead Time	Unit cost	Total Cost
		Planned/Required	Equip Re	q'd/Actual	In Months Total Reg'd		''
Items		•		ost	(Adm/Prod) Actual	(\$M)	(\$M)
DMS Parts and Redesign for Air Vehicle*	N/A	Dec-99	Fel	b-03	38 months	N/A	37.4
	<del></del>					<u> </u>	
CFE for Air Vehicle	10	Dec-99	Fe	b-03	38 months	23.8	238
CFE for Engines	10	Dec-99	Ма	ıy-02	29 months	0.2	1.7
							<b></b>
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Total Advance Procurement							277.1
							<del></del>

\*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

Exhibit P-10, Advance Procurement Requirem	nents Analysis		<del></del>	Budget Year F	or Fiscal Year Program FY01	for FY02	
(PROCUREMENT OF ADVANCE DESIGN AND (TOA, Dollars In Millions)				Date:	Feb-99		
Weapon system Type (Model/Series No.)		First System Award Date	First System Con	npletion Date	Interval Between Systems	5	
F-22 Advanced Tactical Fighter		Dec-00	Feb-03	3	(Months)	1-2	,
		(TOA, \$ in N	/lillions)				
Advance Procurement/Advance Funding	Quantity	Date Contract Awd Planned/Required		Date of First eq'd/Actual	Production Lead Time In Months Total Reg'd	Unit cost	Total Cost
items			<u>c</u>	ost	(Adm/Prod) Actual	(\$M)	(\$M)
DMS Parts and Redesign for Air Vehicle*	NA	Dec-00	No	ov-03	35 months	n/a	73.8
CEE for Air Vahiala	16	Doc 00	Na	03	25 months	20.0	240.5
CFE for Air Vehicle	16	Dec-00		ov-03	35 months	20.0	319.5
CFE for Engines	16	Dec-00	Ma	ar-03	27 months	0.2	2.9
Total Advance Procurement							396.2
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## 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

#### P-40 FOR NET P-1 COST

#### DATE BUDGET ITEM JUSTIFICATION SHEET Feb-99 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 COST (in Millions) 214.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0

#### MISSION & DESCRIPTION:

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-ro-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.

#### FY00 PROGRAM JUSTIFICATION:

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

P-1 Shopping List Item No. Page No.

EXHIBIT P-5

AIRCRAFT COST ANALYSIS	A. Aircraft Mode	el/Budget	B. Weapon Model/S	eries	C. Manufactur	er	D. Date	·····
(Dollars in Millions)	Activity Tit	le/ No.	Popular Name	1				
	3010/10328A		F-15E Tactical Fi	ghter	BOEING		Feb-99	
	AF/BA01 Combat A							
	FY00 President's	Budget Request						
	FY98		FY9	9	FY00		FY	01
	Unit	Total	Unit	Total	Unit	Total	Unit	Total
	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
QUANTITY		5		0		0		0
1. AIRFRAME/CFE (includes susta	ining) 35.3	176.4	0.0	0.0	0.0	0.0	0.0	2.2
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 s	pares)	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	İ	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
		214.0		0.0		0.0		

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

P-1 Shopping List

Item No. Page No.

# PROCUREMENT HISTORY AND PLANNING

A. DATE: FEB 99

B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE

AIRCRAFT PROCUREMENT/BA01, COMBAT AIRCRAFT

F-15E Tactical Fighter

LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	ÕLA	UNIT	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	-	_	-	-	_		1.7	IES -		
FY00	-	-	_	_	_	_				
FY01	_	_	_	_	_	] _				

P-1 Shopping List

P-40 FOR A NET P-1 COST

#### **BUDGET ITEM JUSTIFICATION SHEET** DATE: Feb-99 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE Aircraft Procurement, AF/BA01, Combat Aircraft F-16 TOTAL PRIOR YEARS FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 FY 04 FY 05 TO COMPLETE **PROGRAM** QUANTITY 2,207 6 3 10 0 10 10 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

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.

FY00 PROGRAM JUSTIFICATION: Procures ten F-16 Block 50 aircraft, initial spares, 11 spare engines, and associated support equipment.

FY01 PROGRAM JUSTIFICATION: N/A

EXHIBIT P-40 Budget Item Justification Sheet

Weapon System Cost Analysis EXHIBIT (P-5)	A. Appropriation/Bu	udget Activity Title	e/No.	B. Weapon Model/	Popular Name	C. Manufacturer N	ame/Location	D. Date
(Dollars in Millions)	Aircraft Procuremer BA01 Combat Aircr	•		F-16 Fighting Falce	on	Lockheed-Martin T Ft. Worth, TX	actical Sys Co	Feb-99
Weapon System Cost Elements	FY9	8	FY	99	FY	00		/01
	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost	Unit Cost	Tot Cost
QUANTITY		3		1		10	O THE GOOD	0
1. AIRFRAME/CFE	12.8	38.4	11.9	11.9	13.0	130.0	0.0	0.0
2. ENGINE/ACCESSORIES	4.6	13.8	4.4	4.4	5.0	50.0	0.0	
(MODEL F-100;F110)	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	1
CFE	0.8	2.5	1.5		1.0	10.0	0.0	
GFE	0.8	2.4	1.5	l i	1.0	10.0	0.0	1
4. ARMAMENT	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	
6. ECO	1.6	4.8	4.3	4.3	0.5	5.0	0.0	
7. NON-RECURRING	2.3	6.9	3.5		1.3	12.6		
8. OTHER COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	- 0.0	0.0	0.0		0.0	0.0	0.0
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	
12. AVIONICS PGSE	0.0	19.9	0.0	1	0.0	14.0	0.0	1
13. PEC TRAINING EQUIP	0.0	4.0	0.0	1	0.0	4.4	0.0	1
14. PUBS/TECH DATA	0.0	5.1	0.0	1	0.0	1.8	0.0	1
15. ECO(SUPPORT ITEMS)	0.0	0.0	0.0	0.0	0.0	0.0		1
16. OTHER (CFTs)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	
17. ICS	0.0	7.4	0.0	6.7	0.0	1.6	0.0	
18. ICSE	0.0	0.3	0.0	3.6	0.0		0.0	
19. SUPPORT COST	0.0	36.8	0.0	37.1	0.0	7.4 29.1	0.0	
			0.0	]	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					33.3	20110	0.0	25.0
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	ا م				
COMENT TEAM	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** Contractor **Contract Method** Contracted Award Date of First Unit Specs Specs Rev If Yes, when Fiscal Year and Location & Type By Date **Delivery** Quantity Cost (\$M) **Available Now** Req'd Available **AIRFRAME** FY98 Lockheed-Martin **FFP** ASC/YP Mar-98 Jan-01 12.1 Yes No Ft Worth TX FY99 Lockheed-Martin **FFP** ASC/YP Dec-98 May-01 11.9 Yes No Ft Worth TX FY00 Lockheed-Martin **FFP** ASC/YP TBD TBD 10 13.0 Yes No Ft Worth TX FY01 N/A **PROPULSION** FY98 General Electric SS/FP ASC/LP Mar-98 Mar-99 5.4 Yes No Evandale OH FY99 General Electric SS/FP ASC/LP Dec-98 Jan-00 4.4 Yes No Evandale OH FY00 General Electric SS/FP ASC/LP TBD TBD 10 5.0 Yes No Evandale OH FY01 N/A

D. REMARKS:

UNCLASSIFIED

FY00 PRESIDENT'S BUDGET PRO	DUCTIO	ON SCHI	DULE	P-1 IT	EM N	OME	NCL	ATU	RE:			F-16	AIR	FRA	ME						DA	TE:	Fe	b-99			Para		
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P-1 SHOPPING LIST

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EXHIBIT P-21 Production Schedule

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EXHIBIT P-21 Production Schedule

#### P-40 FOR PROCUREMENT

			BUDGET ITEM	JUSTIFICATIO	N SHEET	DATE	DATE: FEB 99	)			
APPROPRIATION/BUDGE	T ACTIVITY		·			P-1 ITEM NOW	IENCLATURE				
AIRCRAFT PROCUREMEN	NT/BA02, AIRLIFT AIRCR	AFT				C-17 Airlift Airc					
		FY 97/P	FY 98	FY 99	FV 00	57.04	- System	T	Γ		
QUANTITY			<del>                                     </del>		FY 00	FY 01	FY02	FY03	FY04	FY 05	TOTAL
	47 69	48	9	13	15	15	15	5	0	0	120
QUANTITY (14 Add   SOF A	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 8	30 aircraft in the MYP	XXXXXXXXXXXXXX	xxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxx	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	Appropriation	•		Model/Series/	Popular	C. Manufact	urer Name			D. Date
EXHIBIT (P-5)	Activity Title/		Name			Plant City/Si	tate location			Feb 99
	3010/10C17A	A		C-17A		Boeing Airlif	t and Tanker	s		
FY00 PB						Long Beach	. CA			ļ
Weapon System Cost Elements	FY97	8	FY98	9	FY99	13	FY00	15	FY01	15
	Unit Cost	Tot. Cost	Unit Cost	Tot Cost	Unit Cost	T-1 0-1				
	Onit Cost	TOL COST	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cos
1.0 AIRFRAME	200.0	1600.2	193.4	1740.2	174.1	2263.8	163.6	0450.0	400 7	
2.0 ENGINE (MODEL F-117-PW-100)	19.1	152.7	19.7	177.7				1		I
3.0 AVIONICS	8.0	63.7	7.5	67.9	1		l .	1		ı
4.0 ECO	0.0	0.0			1					1
5.0 PRODUCT IMPROVEMENT	3.7	29.6	1		1				1	1
6.0 NON-RECURRING FLYAWAY	1			16.1					1	
7.0 SETTLEMENT	1.5	11.7		1.8			0.2	2.5	1	:
7.0 SETTLEMENT	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	294
9.0 PECULIAR SUPPORT EQUIPMENT		1.5		12.6		12.1		14.1		,
10.0 COMMON SUPPORT EQUIP		0.0		4.1		5.6		4.4		
11.0 TRAINING		60.4		26.2		33.1		58.4		<b>—</b> з
12.0 DATA	! !	4.8		2.0		2.9		3.0		_
13.0 ICS/ROR/FIELD SPT/DEPOT INV	[	37.7		3.9		0.0		0.0		
14.0 FLEX SUST (ICS/CLS/DEPOT INV)		135.5		33.5		208.6		432.1		42
15.0 MISSION SUPPORT		18.3		18.0		16.9		15.0		1.
16.0 SUPPORT COST 17.0		258.2		100.4		279.2		527.0		47
GROSS P-1 COST	232.2	2116.1	222.6	2104.1	202.3	2909.4	194.1	3438.7	196.3	342
17.0 LESS: Prior Year Adv Proc	İ	-221.8		-211.2		070.0				
EOQ Payback		-30.0				-272.0		-302.6		-30
		-30.0		-34.0		-49.0		-56.0		-5
18.0 NET P-1 COST	232.2	1864.3	222.6	1858.9	202.3	2588.4	194.1	3080.1	196.3	306
19.0 ADVANCE PROCUREMENT,										
CURRENT YEAR		211.2		272.0		302.6		304.9		30
20.0 OTHER NON P-1 WEAPON SYS COSTS										
INITIAL SPARES		5.2		128.2		112.0		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	336

BUDGET PI	ROCUREMENT HISTORY AND	PLANNING EXHIB	IT (P-5A)	A. DATE	Feb 99				·	
B. Appropriation/Boundary	udget Activity UREMENT/BAO2/AIRLIFT	C. P-	1 Item Nomeno C-17A	clature						
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type	Contracted By		Date First Delivery	Quantity	Unit Cost	Specs Available Now	Specs REV REQ'D	If Yes, whe Available
AIR VEHICLE										
FY98 FY99 FY00 FY01	Boeing-Airlift & Tankers Boeing-Airlift & Tankers Boeing-Airlift & Tankers Boeing-Airlift & Tankers	FFP FFP FPIS FPIS	AFMC/ASC AFMC/ASC AFMC/ASC AFMC/ASC	Dec-97 Dec-98 Dec-99 Dec-00	Jun-00 Jul-01	13 15	181.1 170.4			
PROPULSION										
FY98 FY99 FY00 FY01	Pratt & Whitney Pratt & Whitney Pratt & Whitney Pratt & Whitney Pratt & Whitney	FFP FFP FFP	AFMC/ASC AFMC/ASC AFMC/ASC AFMC/ASC	Jan-98 Dec-98 Nov-99 Nov-00	Jul-99 Jul-00	9 13 15 15	19.7 19.8 20.6 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

FY99/01 BUDGET PRODUCTION SCH	EDUL	E		P-1	ITE	M NOME	NCLA	TURE								_													FEB	99											
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# 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.	_	EXHIBIT P-43 Simulator & Training Device Justification
	1	

SIMULATO	OR AND TRAINING DE	VICE JUS	TIFICATION (Page 2)	(\$000)			DATE:	FEB 99	· · · · · · · · · · · · · · · · · · ·				-	
Appropriat P-1 Line It	ion/ em	Weapon S	System	IOC Date Aircraft	Equipment Nomenclat			PE						
	3010		C-17 Trainers	Jan-95					41130F					
Device	Site	Delivery	Ready for	Average Student	Prior	Years	F۱	798		99	F	Y00	F'	Y01
Туре		Date	Training Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost			Qty	Cost
MTD	Charleston AFB		_		1	30497		İ						
ATS													:	
	Charleston AFB				1	36761					1	23300		
	Altus AFB				3	45206		T	1	22900				
	McChord AFB				2	35101								
WST	Jackson AFB												1	23600
Concurren	cy and Software					141435		26200		10200		35100		7900
		:		TOTAL	7	289000	0	26200	1	33100	1	58400	1	31500
There is no	funding for Trainers f	or the addit	onal 14 Special Opera	 tions Forces (SOF) air										
			P-1 Shopp	ing List	Item No.		Page No. 2		EXHIBIT P-	43		<u> </u>		

SIMULATOR AND TRA	AINING DE'	VICE JUST	IFICATION	(Page 3) (\$	000)		· · · · · · · · · · · · · · · · · · ·	DATE:			FEB 99			
Training Device by Typ	e			(+ ugu u) (#		Weapon S	ystem (If Ap				FED 99			
	C-17 TRAIN	NERS				Tricapon O		ATS & MTS	3					
Description/Justification								110 4 11110	<u></u>	<del></del>				
ATS: Provides initial an	nd continuo	us training to	o C-17 aircr	ews.										
MTS: Upgrades the dev	vices neces	sary to redu	uce the main	ntenance m	anning lev	el and trainir	na to the low	est level						
Financial Plan	Prior \	Years	FY	'98		Y99	FY		FY	01	Cost to C	omniete	Total	Cost
	Qty	Cost	Qty	Cost	Qty	Cost	Qt		Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS								<del>*                                    </del>			<u> </u>	0031	Gily	COST
Device (Hardware)	7	147565	o	ı ol	. 1	22900	1	23300	1	23600	o	ا ا	10	217365
Concurrency Updates		141435		26200	i	10200	· ·	35100	'	7900	ا	51800	''	277363
Nonrecurring				ı Î						7 300		31800		2/2035
GFE				i l							j l			ĺ
Other(Specify)										! !				
Total Hardware	ŀ	289000	, }	26200		33100	-	58400	ŀ	31500		54000		10000
Costs						00100		30400		31300		51800		490000
SUPPORT COSTS														
Special SE		.												
Integrated Logistics Sup	pt.			. 1								i [		
Other(Specify)	[			ļ										
Total Support	}	0	<u> </u>					0	}			0		<del></del>
Costs								Ĭ		Ĭ				0
							ĺ							
			İ											0
TOTAL COSTS	1								1					
<u> </u>		289000		26200		33100		58400		31500		51800	Ī	490000
There is no funding for	I rainers for	the addition	nal 14 Spec	ial Operatio	ns Forces	(SOF) aircra	aft. The requ	uirement is 7	TBD.					
			1	P-1 Shoppir	ng List Item							EXHIBIT P-	43	
							Page No.	3			i	1		

P-40A FOR ADVAN	ICE PROCURE	MENT								 
	· · ·	BUDGET ITEN	M JUSTIFICA	TION SHEET	· · · ·		DATE: FEE	99		 
APPROPRIATION/I	PUDCET ACTIV	UTV								_
						P-1 ITEM NO	DMENCLATU	JRE		 
AIRCRAFT PROCU	IREMENT (ADV	ANCE BUY)/B	BA02, AIRLIFT	AIRCRAFT		C-17 Airlift A	\ircraft			
ADV BUY	PY	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	TO COMP	TOTAL	 
QUANTITY	48	9	FY 99	FY 00	FY 01	FY02	FY 03	TO COMP	• •	 
	48	9							TOTAL 120 14	
QUANTITY	48	9						0	120	

# MISSION AND DESCRIPTION:

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.

# FY01 PROGRAM JUSTIFICATION:

FY01 funding will provide for the advance procurement for the 15 aircraft procured in the FY02 lot buy.

# FY00 PROGRAM JUSTIFICATION:

FY00 funding will provide for the advance procurement for the 15 aircraft procured in the FY01 lot buy.

There is no advanced buy funding budgeted in FY02 for the 1 additional Special Operations Forces (SOF) aircraft buy in FY03.

Weapon System Advance Procurement EXH	IIBIT P-10			Current Ye	ear for Fiscal Year Prog	gramFY98	
(Procurement of Advance Design and Mater	al)			DATE	Feb 99		
(TOA, Dollars in Thousands)			I=	<u></u>	I	0.11.00	(1.)
Weapon System Type (Model/Series No.)		m Award Date	First System Completi		Interval Between Syst	em Completions (Mon	tns)
C-17A	Jan-98		Jun-00		Lood Time	Unit Cost	Total Cost
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required		Adm/Prod)-Total	Offic Cost	Total Cost
(1)	(2)	(3)	(4)	(5)	ı	(6)	(7)
1. AIRCRAFT CFE	13	Dec-97	Jun-00	l I			255.8
2. AIRCRAFT GFE							16.2
3. SUBTOTAL			1				272.0
5. TOTAL	13						272.0

<sup>--</sup> FY98 advanced buy procured 13 aircraft for FY99 (Lot XI).

Exhibit P-10 Weapon System Advance Procurement Analysis/Justification

Exhibit P-10 Advance Procurement Execution/Request Comparison

<sup>--</sup> P58 is the first aircraft of this lot buy; the first scheduled delivery is Jun 00.

<sup>--</sup> Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs.

<sup>--</sup> Document provided to support the FY00 PB

Weapon System Advance Procurement EXI	HBIT P-10			Budget Ye	ar for Fiscal Year Pro	gram FY99	
(Procurement of Advance Design and Mater	ial)			DATE	Feb 99		
Weapon System Type (Model/Series No.) C-17A	First Syste	m Award Date	First System Completi Jul-01	on Date	Interval Between Sy	stem Completions (M	lonths)
Advance Procurement/Advance Funding tems	Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required			Unit Cost	Total Cost
(1)	(2)	(3)	(4)	(5)		(6)	(7)
. AIRCRAFT CFE	15	Dec-98	Jul-01				276.9
. AIRCRAFT GFE							25.7
3. SUBTOTAL							302.6
5. TOTAL	15						302.6

- -- 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 PROCURE	MENT EXHI	BIT P-10		Budget Ye	ar 2- Fiscal Year Progr	am FY00	
(COMPARISON OF REQUEST TO EXECU	TIONS)			DATE	Feb 99		
Weapon System Type (Model/Series No.) C-17A	First Syste	m Award Date Jan-00	First System Completi Aug-02		Interval Between Syst	em Completions	
Advance Procurement/Advance Funding Items	Quantity	Date Contract Award Required/Actual	Delivery Date of First Equip. Required/Actua	Production in Months		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

<sup>--</sup> FY00 advanced buy will procure 15 aircraft in FY01 (Lot XIII).

Exhibit P-10 Advance Procurement Execution/Request Comparison

<sup>--</sup> P86 is the first aircraft of this lot buy; the first scheduled delivery is Aug 02.

<sup>--</sup> Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs.

<sup>--</sup> Document provided to support the FY00 PB

WEAPON SYSTEM ADVANCE PROCUF		DI 1 F-10		Prior Year	for Fiscal Year Program	1 FY01	
COMPARISON OF REQUEST TO EXEC	UTIONS)			DATE	Feb 99		
Weapon System Type (Model/Series No.) C-17A	First Syste	m Award Date Jan-01	First System Completi Aug-03		Interval Between Syste	m Completions	
Advance Procurement/Advance Funding tems	Quantity	Date Contract Award Required/Actual	Delivery Date of First Equip. Required/Actua	Production in Months		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

<sup>--</sup> FY01 advanced buy will procure 15 aircraft for FY02 (Lot XIV).

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

<sup>--</sup> P101 is the first aircraft of this lot buy; the first scheduled delivery is Aug 03.

<sup>--</sup> Award and delivery dates are not given for Aircraft GFE as these requirements are awarded on multiple contracts through the ALCs.

<sup>--</sup>This document submitted to support the FY00 PB

## P-40 FOR PROCUREMENT

BUDGET ITEM J	JUSTIFICATION S	HEET		DATE							
	_			FEB 99	FY00 Preside	nt's Budget					
<b>APPROPRIATIO</b>	N/BUDGET ACTIV	/ITY		P-1 ITEM NOME							
3010/10400E											
(\$M)				EC-130J HE	RCULES						
	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	
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)	S 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

#### 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 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.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)				Model/Serie	es/ Popular	C. Manufacture		D. Date	
, ,	Activity Title		Name			Plant City/State		Month/Year	
(\$M)	3010/10400	)E	EC-130J			LOCKHEED/M	ARIETTA, GA		FEB 99
								FY00 Presi	dent's Budget
Weapon System Cost Elements	ldent.	FY96	QTY (0)	FY97	Qty (1)	FY98	Qty (1)	FY99	Qty (1)
	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost
Airframes/Engine	Α			66.8	66.8	48.2	48.2	73.9	73.9
(4 per A/C)								1	
(Eng Model: ALLISON AE2100)				1					
2. AVIONICS				İ					
A. CFE									
B. GFE			İ						
3. ARMAMENT	1		İ						
4. OTHER GFE			ŀ						
5. ECO (All Flyaway Components)	1			2.2	2.2	0.1	0.1	0.9	0.9
6. NON-RECURRING COSTS					l	0.1	"	0.9	0.9
(Tooling)						Ī			
(Other)									
7. OTHER COSTS									
8. Subtotal FLYAWAY COST	0.0	l 0.0	0.0	69.0	69.0	48.3	48.3	74.8	74.8
9. PECULIAR SUPPORT EQUIPMENT	Α			0.0			,,,,	2.4	2.4
10. ICS				0.0					
11. DATA				0.0		0.2	0.2	1.8	1.8
12. PECULIAR TRAINING EQUIPMENT				0.0			J	0.0	'
13. PUBLICATIONS/TECH. DATA			-	0.0				5.8	5.8
14. TRAINING				0.0				1	0.0
15. OTHER (TEST/MISSION)	Α			0.0	0.0				
PMA (PAP 56) TRANSFER									
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	0.0	69.0	69.0	48.5	48.4	84.8	84.8
18 LESS PRIOR VE ARV PROG									
18. LESS: PRIOR YR ADV. PROC									
(Breakout by Prior FY offunding)	1								
46 NET D 4 FULL FUNDING COST									
19. NET P-1 FULL FUNDING COST	0.0	0.0	0.0	69.0	69.0	48.5	48.4	84.8	84.8
(Must equal FY amount displayed on the P-40 exhibit)									
,									
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
·						0.0	0.0	]	0.0
	1								
TOTAL	0.0	0.0	0.0	69.0	69.0	48.4	48.4	84.8	84.8

BUDGET PRO	CURMENT HISTORY	AND PLANNING E	EXHIBIT (F	P-5A)	A. DATE	FEB 99	EV00 Broad	sident's Bud	and .		
B. Appropriation/B	udget Activity	IC	C. P-1 Item	Nomeno	Lclature	LCD 99	F 100 FIE:	siderit's bud	get		
3010/10400E						EC-130J					
Cost Elements Fiscal Year	Contractor and Location	Contract Me & Type	thod Co By	ntracted	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Available Now		If Yes, when
97	LMAS Marietta, Ga.	Commercial	FFP AF	мс	Dec-97	Jun-99	1	48.7	No	Yes	TBD
98	LMAS Marietta, Ga.	Commercial	FFP AF	мс	Dec-97	Dec-99	1	48.2	No	Yes	TBD
99	LMAS Marietta, Ga.	Commercial	FFP AF	МС	TBD	TBD	1	TBD	No	Yes	TBD
					<u> </u>			<u> </u>	<u> </u>	<u> </u>	1

FY00 PB PRO	DUC	TION	SCHED	ULE				P-1	TE	N N	OME	NC	LA	TUF	₹E														DA	TE					FEE	3 99				_
												<u>-13(</u>	IJ																	FY	00 F	res	idei	nt's	Buc	lget				
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	Ε	Proc	Prior	Due	О	N	D	J	F	М	Α	М	J	J	Α	S	0	N	О	7	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М		М	_		ΑĪ	
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Proc Year	V		1 Oct	1 Oct	Т	V	С	N	В	R	R	Υ	N	L	G		Т	ν	С	N	В	R	R	ΙΥ	N	L	G	Р	Т	V	c	N	В	R		Υ	Ň		Ğ	P
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LOCATION	-			MIN			MAX	HD						ADN				тот																						
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EXHIBIT P-21 P-1 SHOPPING LIST

# P-40

BUDGET ITEM JUST	IFICATION SHEET			DATE FEB 1999 F	Y00 Presi	dent's Budg	et		***		
APPROPRIATION/BU	DGET ACTIVITY	***		P-1 ITEM NO							
3010/ICS											
(\$M)				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	
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.

P-40

BUDGET ITEM JUST	IFICATION SHEET			DATE FEB 1999 F	Y00 Presi	dent's Buda	et		•	·	······
APPROPRIATION/BU 3010/ICS	DGET ACTIVITY	-		P-1 ITEM NO							<del></del>
(\$M)				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	C
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	C

# 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.

## FY99 Funding

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).

WEAPON SYSTEM COST ANALYSIS	A. Approp	riation/Budget	B. Weapon N	Model/Serie	s/ Popular	C. Manufacturer Name		D. Date	
EXHIBIT (P-5)	Activity Ti	tle/No.	Name			Plant City/State location	n	Month/Year	
(\$M)	3010/ICS		C-130H			LOCKHEED/MARIET	TA, GA		FEB 99
FY00 President's Budget							•		7
Weapon System Cost Elements	Ident.	FY97	QTY (1)	FY98	Qty (0)	FY99	Qty (1)	FY00	Qty (0)
	Code	Unit Cost		Unit Cost		Unit Cost		Unit Cost	Tot. Cost
1. Airframes/Engine	Α	0.0			0.0	0.0	0.0		101: 0051
(4 per A/C)			1						
(Eng Model: ALLISON AE2100)									
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			0.0			0.0	0.0		
(Tooling)									
(Other)									
7. OTHER COSTS	·								
8. Subtotal FLYAWAY COST	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		
II. DATA			0.0		0.0		11.1		
12. PECULIAR TRAINING EQUIPMENT			0.0		0.0	i .	0.0		
13. PUBLICATIONS/TECH. DATA			0.0		0.0	1	0.0		
14. TRAINING			0.0		0.0	1	0.0		
15. OTHER (TEST/MISSION)	A		0.0				0.0		
PMA (PAP 56) TRANSFER			0.0		0.0		0.0		
16. Subtotal SUPPORT COST		0.0	0.0	0.0	0.0	1			[
17. GROSS P-1 END COST	0.0				0.0 0.0		11.1 11.1	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	0.0	0.0		0.0	0.0				
	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
(Must equal FY amount displayed on the P-40 exhibit)									
20. Plus Current Year ADV, PROC.									
21. Other Non P-1 Weapon System Costs	}								
22. Initial Spares 23. Mods		0.0	0.0		0.0	0.0	0.0		
TOTAL	0.0	0.0	0.0	0.0	0,0	0.0	11.1	0,0	0.0

#### P-40 FOR PROCUREMENT

BUDGET ITEM JU	JSTIFICATION SHE	ET		DATE						<del></del>	
				FEB 99	FY00 President	's Budget					
APPROPRIATION 3010/10400W	BUDGET ACTIVITY	1		P-1 ITEM NOMEN							
(\$M)				WC-130J HE	RCULES						
	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		ТВО
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 reconnaisiance 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.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropria		B. Weapon Name	Model/Serie	es/ Popular	C. Manufacture Plant City/State		D. Date Month/Year	
(\$M)	3010/10400		WC-130J			LOCKHEED/M		t .	FEB 99
Weapon System Cost Elements	ldent.	FY97/Prior	QTY (6)	FY98	Qty (2)	FY99	Qty (1)	FY00	Qty
	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost		Tot. Cost
Airframes/Engine     (4 per A/C)     (Eng Model: ALLISON AE2100)     AVIONICS     A. CFE     B. GFE	A	45.7	273.9	48.2	96.4	52.9	52.9	0.0	0.0
3. ARMAMENT 4. OTHER GFE			1.4	0.2	0.4	0.2	0.2		
5. ECO (All Flyaway Components) 6. NON-RECURRING COSTS (Tooling) (Other)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. OTHER COSTS				6.8	1		12.7		
8. Subtotal FLYAWAY COST	0.0	45.7	275.3	55.2	1		65.8	0.0	0.0
9. PECULIAR SUPPORT EQUIPMENT	Α			1.7	3.3	1	6.1		
10. ICS		0.1	0.6	2.1	4.1	0.0			
11 ISS	1				l	3.1	3.1		
12. CDRL/LSA&RM DATA		0.5	3.0		1		0.0		
13. PECULIAR TRAINING EQUIPMENT		i		3.0	1		0.0		
14. PUBLICATIONS/TECH. DATA		0.8	1	l	1		0.0		
15. TRAINING	1.	0.3	1.6	0.1	0.1	0.2	0.2		
16. OTHER (TEST/MISSION)	A								
PMA (PAP 56) TRANSFER	ļ								
17. Subtotal SUPPORT COST	1	1.6					9.4	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	0.0	47.3	285.0	61.9	123.8	75.2	75.2	0.0	0.0
(Must equal FY amount displayed on the P-40 exhibit)	0.0	47.0	200.0		125.0	70.2	70.2	0.0	0.0
21. Plus Current Year ADV, PROC.									
<ul><li>22. Other Non P-1 Weapon System Costs</li><li>23. Initial Spares</li></ul>		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 PRO	JURMENT HISTORY	AND PLANNING EXHI	BII (P-5A)	A. DATE	FEB 99	FY00 Pres	sident's Bud	inet		
. Appropriation/B	udget Activity	C. P-1	Item Nomeno	l clature	1 LD 33	1 100 116.	sident's Dut	<u> </u>		
010/10400W					WC-130J					
ost Elements	Contractor	Contract Method	Contracted		Date of First	Quantity	Unit	Specs		If Yes, whe
iscal Year	and Location	& Type	Ву	Date	Delivery	ļ	Cost	Available Now	REQ'D	Available
96	LMAS Marietta, Ga.	Commercial FFP	AFMC	Aug-97	Apr-99	3	44.2	Yes	No	N/A
97	LMAS	Commercial FFP	AFMC	Aug-97	Oct-99	2	47.4	Yes	No	N/A
	Marietta, Ga.			Aug-97	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
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FY99 PB PRO	PRODUCTION SCHEDULE P-1 ITEM NOMENCLATURE WC-130J FISCAL YEAR 98 FISCAL YEAR 99													ΑT	JRE															TE				99 Bu	daa						
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EXHIBIT P-21 P-1 SHOPPING LIST PAGE 1 OF 3

#### P-40 FOR PROCUREMENT

BUDGET ITEM J	USTIFICATION SHE	ET		DATE							
				22-Jan-99							
APPROPRIATION 3010/10400C (\$M)	I/BUDGET ACTIVITY	(		P-1 ITEM NOMEN C-130J HERO			-				
	PRIOR YEARS	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	FY 04	FY 05	TO COMPLETE	TOTAL PROGRAM
QUANTITY	3	0	O	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	ТВО	180
INITIAL SPARES (MILLIONS)	5 4	0 7	61.8	0.0	0.0	0 0	00	0.0	0 0	TBD	. 180
TOTAL (MILLIONS)	168 2	27 3	91 2	32 4	32 1	173 4	182 9	182 9	796 9	TBD	180
UNIT COST (MILLIONS)	56 07	N/A	N/A	N/A	N/A	86 70	91 45	22 86	79 69	N/A	N//

#### 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 belivery 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.

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.

EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (\$M)	Activity 3010/10	opriation/Budget Title/No. 1400C	B. Weapor Name C-130J	n Model/Seri	es/ Popular	C. Manufactur Plant City/Sta LOCKHEED/N	rer Name te location MARIETTA, GA	D. Date Month/Yea	r 22-Jan-9
Weapon System Cost Elements	ldent	FY98	Qty (0)	FY99	Qty (0)	FY00			
Airframes/Engine	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Qty (0) Tot. Cost	FY01 Unit Cost	0
(4 per A/C) (Eng Model: ALLISON AE2100) 2. AVIONICS A. CFE B. GFE		0.0	0.0	0.0	0.0			0.0	Tot. Cost
3. ARMAMENT 4. OTHER GFE									1
5. ECO (All Flyaway Components) 6. NON-RECURRING COSTS (Tooling) (Other)				0.0	2.1			0.0	0.0
7. OTHER COSTS 8. Subtotal FLYAWAY COST 9. PECULIAR SUPPORT EQUIPMENT 10. ICS 11. Interim Supply Support (ISS) 12. CDRL, LSA/R&M DATA 13. PECULIAR TRAINING EQUIPMENT 14. PUBLICATIONS/TECH. DATA 15. TRAINING 16. OTHER (TEST/MISSION) PMA (PAP 56) TRANSFER 7. Subtotal SUPPORT COST 8. GROSS P-1 END COST	A 0	0.0 0.0	0.0 0.0 0.0 8.8 3.5 3.0 1.0 0.7 8.6 25.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.1 0.0 0.0 0.0 27.3 0.0 0.0 0.0 27.3 29.4	0.0	0.0 4.0 18.1 3.5 0.0 1.6 0.0 3.4 30.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 4.5 19.5 2.5 0.0 1.0 0.0 3.4
9. LESS: PRIOR YR ADV. PROC Breakout by Prior FY of funding)  0. NET P-1 FULL FUNDING COST Must equal FY amount displayed	0	0 0 0	25 6	0.0	29 4				30.9
n the P-40 exhibit)  1. Plus Current Year ADV_PROC  2. Other Non P-1 Weapon System Costs  3. Initial Spares  4. Mods			0.7	0.0	61.8	0 0	30 6	0 0	30 9
TOTAL		0 0	20.0					0.0	0.0
	1	·:	26.3	0.0	91.2	15.3	30.6	0 0	30.9

3. Appropriation/E 3010/10400C	Budget Activity	С	. P-1 Item Nomenclat	ture	FEB 99	1 100 1 10	sident's Bu	uget		
Cost Elements Fiscal Year	Contractor and Location	Contract Met & Type	hod Contracted By	Award Date	C-130J Date of First Delivery	Quantity	Unit Cost	Specs Available	Specs Re Reg'd	If Yes, who
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

EXHIBIT P-5A Procurement History and Planning

FY99 PB PF	RODI	JCTIC	ON SCH	IEDUL	E			P-1 I	TEM	N	ME	NC	LAT	URI															DA				EB							
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Item/Manu	R	Qty	to	as of		0		Α	E	A		Α	U	U		E	С	0	Ε	Α	Ε	Α	P	A Y	U	U	U	E	C	0	Ε	Α	Ε	Α	P	Α	U	U		Ε
Proc Year	V	1	1 Oct	1 Oct	T	V	C	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	Ν	В	R	R	Υ	N	L	G	Р	T	<b>V</b>	С	N	B	<u>R</u>	R	Y	N	L	G	P
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C-130J	Т		0	5																					L		L							L						
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**EXHIBIT P-21** 

P-1 SHOPPING LIST

### **EXHIBIT P-43**

## **UNCLASSIFIED**

	SIMILI ATOR	AND TRAIN	IING DEVICE JU	ISTIFICATIO	N (\$ M)			FEB 99 FY00 Presid	lent's Bu	dget
APPROPRIATION/P-1			Weapon System C-130 Trainers (ATS & MTD)	m:	Equipment Aircrew &	Nomenclat Maintenanc	ure: e 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	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

# TRAINING SYSTEM DESCRIPTION

## **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.

### 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.

EXHIBIT P-43 Page 1 of 1

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/	FY 2000	FY2001	FY2002	FY 2003	FY 2004	FY 2005	To Comp	Total
	Prior								
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 initative 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.

AIRCRAFT COST ANALYSIS	A. Appn/l	Budget	B. Popul	ar Name	C. Manufac	turer	D. Date	Jan-99
EXHIBIT P-5	Activity T							
(Dollars in Millions)	010/8474	0F			Raytheon A			
			Training		Wichita, Ka			
	FY99 &	QTY		QTY		QTY		QTY
	Prior	68	FY00	21	FY01	27	FY02	49
	Unit	Total	Unit	Total	Unit	Total	Unit	Total
FLYAWAY COST	Cost	Cost	Cost		Cost	Cost	Cost	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				20.0		10.0	2.0	12.2
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		2.5		0.0		0.0
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	9.0	225.0		00.0		07.0		040 :
20 LESS: Prior Yr Adv. Proc	8.9	335.8	6.4	88.2	5.7	97.2	6.2	210.1
21 NET P-1 COST		0.0		0.0	_ ~	0.0		0.0
	8.9	335.8	6.4	88.2	5.7	97.2	6.2	210.1

EXHIBIT P-5

FY00 Presider		·			January 99					
B. Appropriation	Budget Activity	1	1 Item Nomenclature							
3010/84740F		Joint	Primary Aircraft Training							
Cost Elements	Contractor	Contract Method	Contracted	Award	Date of First	Quantity	Unit	Specs	Specs REV	If Yes, when
Fiscal Year	and Location	& Type	Ву	Date	Delivery		Cost	Available Now	REQ'D	Available
AIR VEHICLE										
FY95	Raytheon Aircraft	C/FPO	ASC/YT WPAFB OH	Feb-96	Feb-99	3		1 Yes	No	N/A
FY96	Wichita, Kansas	C/FPO	ASC/YT WPAFB OH	Sep-96				Yes	No	N/A
FY97		<b>I</b>	ASC/YT WPAFB OH	Apr-97		1		N/A	N/A	N/A
FY98			ASC/YT WPAFB OH	Feb-98				2 N/A	N/A	N/A
FY99			ASC/YT WPAFB OH	Feb-99				N/A	N/A	N/A
FY00			ASC/YT WPAFB OH	Feb-00				N/A	N/A	N/A
FY01		C/FPO, FPIF with EPA	ASC/YT WPAFB OH	Feb-01	Feb-03	1		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.

FY00/01 BUDGET PRO	OUC	ION						[P-1]	TEM N	OME	VCLA	TURE								-								I	DAT	E	Janu	iary 9	•							-	В
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Proc Year	_	┡	1 Oct	1 Oct	T	V	C	N	В	R	R	Υ	N	L	G	Р	T	٧	С	N	В	R	R	Y	N	L	G	Р	T	٧	С	N	В	R	R	Υ	N	L	G	Р	E
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SIMULATO	OR AND TR	AINING DE	VICE JUST	IFICATION		(\$ M)		DATE		
FY00 Pres	ident's Budg	get (PB)				` '			Jan-99	
Appropriati	on/P-1 Line	Item	Weapon Sy	/stem(If Ap	olicable)	Equipment	Nomenclat	ure	PE	
3010/Joint	Primary Air	craft	JPATS						84740F	
Training Sy	/stem (JPA	ΓS)								
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	

## TRAINING SYSTEM DESCRIPTION

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).

<sup>\*\*</sup> O&S total is from FY01-FY14. FY15-FY38 is TBD.

P-1 Shopping List Item No.	•	EXHIBIT P-43 Simulator & Training Device Justification
	1	

<sup>\*</sup> Quantity consists of 3 for RDT&E and 56 for Procurement.

Appropriation/			JUSTIFICATION (Pag			ent's Budget			DATE:	Jan-99		
P-1 Line Item		ivveapon S	ystem (If Applicable)	IOC Date	Equipment			PE				
3010/JPATS		IDATO		l	Nomenclatu	e						
	0:1:	JPATS		Aug-01				1	84740F			
Training Device	Site	Delivery	Ready for	Average Student		Years		Year (99)	Budget \	rear1 (00)	Budget Yea	r2 (01)
Ву Туре		Date	Training Date	Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
OFT	Various				0	N/A	2	4.8		7.0		
FT	Various				0	N/A	2	3.0	3	7.9		3.2
UTD	Various				0	N/A	2		2	2.9	4	5.9
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#### P-40 FOR PROCUREMENT

			BUDGET ITE	M JUSTIFICAT	TION SHEET	DATE	FEB 99				
						FY00 Preside	ent's Budget				
APPROPRIATION			3010			P-1 ITEM NO	OMENCLATUR	₹E		·	
AIRCRAFT PROC	;UREMENT/ S	SPECIAL OPE	RATIONS AIR	:CRAFT			ial Operation A				
	PY	FY 98	FY 99	FY 00	T FV 04	EVOC	F)/00	T 5) (0.4	T 70-	<u> </u>	
		F1 90	F1 99	FYUU	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			<u> </u>		16.798	67.813	54.441	61.495	78.948	1	
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 manaual 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 Corpand 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	Appropriatio	•		del/Series/Popul	ar	C. Manufacture		D. Date 'FEB 99	9
EXHIBIT (P-5)	Activity Title		Name			Plant City/State	location		
FY00 President's Budget	3010/CV-2	2		CV-22		Bell-Boeing			
Weapon System Cost Elements	T. Lit.	FV 00	L			Fort Worth, TX			
vveapon System Cost Elements	Ident.	FY 98	<b>-</b>	FY99		FY00		FY01	4
	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost
1 Airframe CFE								50 200 52	000 400 40
2 Engines/Eng Acc	ĺ							58,280.53	233,122.12
3 CFE Electronics								3,660.00	14,640.00
4 GFE Electronics								427.71	4 740 00
5 Armament	,				•		Ĺ	427.71	1,710.83
6 Other GFE								l	
7 Rec Flyaway ECO					l			2,566.47	10,265.89
8 Rec Flyaway Cost		_		_	_	_	_	64,934.71	259,738.84
								04,004.71	203,700.04
9 Non-Recur Cost								1,933.94	7,735.75
10 Ancillary Equip								1,555.54	7,700.70
11									
12 Total Flyaway		-	-	-	-	-	-	66,868.65	267,474.59
13 Airframe PGSE							9,268.18		19,429.28
14 Engine PGSE							0,200.10	1	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	1								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				ĺ	,_ : 3.00		25, 15 1.02		(20,289.69)
24 Net P-1 Cost					22,213.00		29,194.32		338,387.54
25 Adv Proc CY					,		20,289.69	1 .	27,209.35
26 Weapon System Cost	1				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 PROCUREN	IENT HISTO	ORY AND F	LANNING EX	HIBIT (P-5A)		Weapon System		A. DATE		
FY00 President's Budget						CV-22		FEB 99		
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOMEN	CLATURE		<del></del>	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 Airfame FY2001 Adv Procurement	4	\$58.3	NAVAIR NAVAIR	Option	SS/AAC FPI SS/AAC	Bell-Boeing, Patuxent River MD Bell-Boeing, Patuxent River MD	Mar01 Mar01	Mar03	Yes	
Engines:										
FY2001	8	\$1.8	NAVAIR	Option	SS/FFP	Allison Engine Co, Indianapolis IN	Jan01	Aug02	Yes	
D. REMARKS										

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

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FY2003 Air Vehicle			9		9		1		1	1		1	1	1		1	1	1												
FY 2004 Air Vehicle			9		9									-					-	1		1	1	1	1		1	1	1	1
FY 2005 Air Vehicle			9		9																									,
		-	ļ			-																								
						1									<u>1_</u>			<u>1</u>	1		<u>1                                    </u>			<u> </u>			<u> </u>			L_

DD Form 2445, JUL 87

311 / 244

Previous editions are obsolete

P-1 SHOPPING LIST

Exhibit P-21 Production Schedule

	SIMULATOR	AND TRAIL	VING DEVIC	E JUSTIFICA	ATION (TY\$	N)		DATE: FEB	99	
Appropriation/P-1 Line Item Prod 3010				Weapon Sys	stem			Equipment N	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	

<sup>\*</sup> Procurement costs will be split between USSOCOM (15%) and USAF (85%)

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.

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.

	SIMULATO	R AND TRA	VINING DEV	/ICE JUSTIF	ICATION (T	Y\$M) (Pa	age 2)	DATE: FE	B 99			
Appropriation/P-1 Line Item			Weapon S		IOC Date:			t Nomencla		PE: 11604	104BB	
Prod 3010			CV-22 SOI	=	4QFY04		' '					
					Prior Years		FY 1999		FY 2000	<u> </u>	FY 2001	
Training			Ready for	Average	T					1		
Device	Site	Delivery	Training	Student	1					ł		
by Type		Date	Date	Throughput	OTY	Cost	QTY	Cost	QTY	Cost	l qty l	Cost
Weapon System Trainer (WST)	Kirtland	2QFY02	4QFY02	41			1	22.213				
Operational Flight Trainer (OFT)	Kirtland	2QFY02	4QFY02	41					1	16.727	<del></del>	
OFT-(TSSC Configuration)	Kirtland	2QFY03	3QFY03	N/A *					·	10.72.	1	13.260
OFT	Hurlburt	1QFY03	3QFY03	62							1	13.260
WST	Kirtland	2QFY05	3QFY05	41	<u> </u>	····				<del> </del>	<del></del>	13.200
OFT	EUCOM	1QFY06	3QFY06	23			-					
OFT	PACOM	2QFY06	4QFY06	23						<u> </u>		
OFT	West Coast	1QFY07	3QFY07	62			<del>                                     </del>			<del>                                     </del>		
Cabin Part Task Trainer	Kirtland	3QFY07	4QFY08	72								
(CPTT)							<del> </del>	<del></del>		<del>                                     </del>		

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 DEV	/ICE JUSTIFICATION (TY\$M) (Page 3) DATE: FEB 99
Training Device by Type	Weapon System
	CV-22 Special Operations Aircraft

<sup>\*</sup> Procurement costs will be split between USSOCOM (15%) and USAF (85%)

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.

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.

Financial Plan	Prior Y	ears	FY 1999	)	FY 2000		FY 2001		Cost to	Complete	Total Co	st
	QTY	Cost	QTY	Cost	QTY	Cost	QTY		QTY	Cost	QTY	Cost
HARDWARE												1000
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								1.000			<u> </u>	
				_				1.696		3.253		4.949
		<del>-  </del>				_	<del>  </del>					<del></del>
TOTAL Costs	0	0	1	22.213	1	16.727	-	28.216	5	73.885	9	141.041

## P-40 Advance Procurement

			BUDGET ITE	M JUSTIFICA	TION SHEET	DATE EXOD Bracid	FEB 99				•
PPROPRIATION RCRAFT PROC	N/BUDGET AC CUREMENT/ S	CTIVITY: SPECIAL OPE	3010 RATIONS AIF			P-1 ITEM NO	ent's Budget DMENCLATUR ial Operation A				
	PY	FY 98	FY 99	FY 00	FY 01	FY02	FY03	FY04	FY05	TO COMP	TOTAL
ost (TY\$M)	-		-	20.289	27.209	57.329	69.884	55.230	46.944	13.969	290.854

Exhibit P-10 Advar	ice Procur	ement Requi	rements Ana	llysis			Date:	FEB 99	-				
(Page 1 - Funding)							FY00 Pres	ident's Budget					
Appropriation (Trea	as) Code/C	CC/BA/BSA/	Item Contro	l Number				em Nomenclar					
Aircraft Procureme	nt, Air Fo	rce / 3010 BF	P10 / BA-1					vance Procure					
Weapon System				First Syste	m (BY1) A	ward Date	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Interval Bety	ween Systems			
CV-22				FY2000 A	lvance Procu	rement for FY	'01 Productio	n: Feb 00		,			
				FY2001 R	egular Proci	urement: Fel	b 01						
						(\$ in Mi	llions)	**	<u> </u>				
	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
										-			
		ļ											
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
		ļ			ļ								
Total AP					ļ	20.289	27.209	57.330	69.884	55.230	46.944	13.968	290.854
							l	1				1	

Description:

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.

FY 02 starts advance procurement for a planned multi-year production contract for FY 03 - FY 07.

Exhibit P-10 Advance P	rocuremen	t Requir	ements Ana	lvsis			Date:	FEB 99	
(Page 2 - Budget Justific		1		· · · · · · · · · · · · · · · · · · ·			FY00 President's		
Appropriation (Treasury	′	'/RA/RS	A/Item Cor	itrol Number	Weapon System				
Aircraft Procurement, Air Fo				idoi ivallibei			P-1 Line Item No		
	7 3010 B				CV-22		CV-22 Advance I	rocurement	
	<del></del>	T			(TOA, \$ in Millio	ons)			
	BY1	OD 4	UNIT	BY1 QTY (BY2 qty)	BY1 Contract Forecast Date	Cost Request		Forecast Date	BY2 Total Cost Request
T. 14	PLT	QPA	COST	FY2000(FY2001	FY2000	FY2000	FY2001	FY2001	FY2001
End Item			·						
	ļ . <u></u>	<u>i</u>							
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
									0.107
									<del>-</del>
Total Advance Proc						20.289			27.209
Description:	<u> </u>								

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.

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	<del></del>		<del>                                     </del>			268.8
Unit Cost (in M)									<del>                                     </del>	200.0

## 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 ofer improved reliability, reduced O&S costs, compliance with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.

BUDGET ITEM JUSTIFICATION SHEET	Date: February 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
	C-37A (Small VCX)
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft	
	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				1		7
COST (IN millions)		99.1	5.7	160.2	· ·					265.0
Initial Spares (in M)		3.8	***							3.8
Total (in Millions)	<u> </u>	102.9	5.7	160.2						268.8
Unit Cost (in M)					111					

## 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 ofer 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.

AIRCRAFT COST ANALYSIS	A. Appn/Budget	B. Popular	Name	C. Manufa	cturer	D. Date	Feb-99
EXHIBIT P-5	Activity Title/No.						
(Dollars in Millions)	Aircraft Procurement	C-37 (VCX)		Boeing			
	Other Aircraft/BA 4			Seattle, WA	١		
		-	QTY		QTY		QTY
		FY97	0	FY98	1	FY99	4
		Unit		Unit	Total	Unit	Total
l		Cost	Cost	Cost	Cost	Cost	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	l i	0.0		0.0
Eng Model: F-118-GE-100			0.0		0.0		0.0
AVIONICS			0.0		0.0	l	0.0
WEAPON DELIVERY SYSTEM			0.0		0.0	Į į	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** 

	OCUREMENT HISTORY	AND PLANNING EXHIBIT	(P-5A)	A. DATE													
FY00 BES					Feb-99	<u> </u>											
B. Appropriation/Budget A			em Nomenclature														
Aircraft Procurement/BAO	4, Other Aircraft	C-37	Ia			10 1	14.5	_	lo pri	Tre ve							
		Contract Method						Specs Available Now	Specs REV REQ'D	If Yes, when Available							
Fiscal Year ar	nd Location	& Type	Ву	Date	Delivery		Cost (\$M)	Available Now	REGU	Available							
AIR VEHICLE																	
FY 99 G	ulfStream	FFP	ASC/LAAV	TBD	TBD	4	40.1	Yes	No	N/A							
		FFP	ASC/LAAV	Mar-98	Jan-00	1	N/A	Yes	No	N/A							
		FFP	ASC/LAAV	Aug-96	Sep-98	2	36.1	Yes	No	N/A							
D. REMARKS:																	

**EXHIBIT P-5A Procurement History and Planning** 

FY00 President's Budget									EM	NO	ME	NC	LAT	UR	E											DATE Feb 99														_					
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Item/Manu	E R	Proc	Prior	Due				J		M		М		J.	Α	S	0	N		J								4		वा			IJ	F			V				Α	S			
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BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99: FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOME	NCLATURE
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		<u> </u>			† <del></del>	
Initial Spares (in M)							1		***	
Total (in Millions)	-	•	180.8	160.4	- 4		<u> </u>	*******		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.

BUDGET ITEM JUSTIFICATION SHEET		Date: Feb 99 : FY00 President's Budget
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOME	ENCLATURE C-32 (VCX)
AIRCRAFT PROCUREMENT/BA-04, Other Aircraft		0.02(1.01.)

	FY 1996	FY 1997	FY 1998	FY 1999	FY2000	FY2001	FY 2002	FY 2003	To Comp	Total
QUANTITY			2	2						10111
COST (IN millions)			180.8	160.4		-			<del>                                     </del>	
Initial Spares (in M)						<del></del>	<del> </del>			<del></del>
Total (in Millions)			180.8	160.4			<del> </del> -	· · · · · · · · · · · · · · · · · · ·	<del></del>	341.1
Unit Cost (in M)						·	<u> </u>			341.1

#### 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.

AIRCRAFT COST ANALYSIS	A. Appn/Budget	B. Popular	Name	C. Manufa	cturer	D. Date	FEB 99
EXHIBIT P-5	Activity Title/No.					FY00 Preside	ent's
(Dollars in Millions)	Aircraft Procurement	C-32 (VCX)		Boeing		Budget	
	Other Aircraft/BA 4	-		Seattle, WA			
		FY97	QTY		QTY		QTY
				FY98		FY99	_ 2
		Unit	1	Unit			Tota
AIRFRAME/CFE		Cost	Cost 0.0	Cost 89.8	Cost		Cost
PROPULSION			0.0	09.0	179.6 0.0	77.5	155.0
ENGINE/ACCESSORIES		Ì	0.0		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)		1	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	İ	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	ŀ	0.0		0.0
S/W INVESTMENT		]	0.0		0.0		0.0
Program Management Admin Reqmt (PMAR) OTHER			0.0		0.0		0.0
			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** 

RUDGET (	POCI IDEMENT HISTORY	AND DIAMBING E	William (B.C.)	<del></del>					
FY00 President's Budget	PROCUREMENT HISTORY	AND PLANNING EX	KHIBIT (P-5A)	A. DATE				·	
B. Appropriation/Budget Ac	ctivity		C. P-1 Item Nomenclature		Feb-9	<i>i</i> 9	 		
Aircraft Procurement/BA04	4, Other Aircraft		C-32 (VCX)						
Cost Elements Fiscal Year	Contractor and Location	Contract Method & Type		Award Date	Date of First Delivery		Specs Available Now	Specs REV REQ'D	If Yes, when Available
AIR VEHICLE									
FY 98 FY 99	Boeing Company Boeing Company	FFP FFP	ASC/LAAV ASC/LAAV	Aug-96 Aug-96	Jun-98 Nov-98	2 2		No No	N/A N/A
D. REMARKS:									

**EXHIBIT P-5A Procurement History and Planning** 

FY00 Presid	dent	's Bud	lget			_	$\overline{}$	P-1	ПТГ	EM	NO	ME	NC	LA"	TUR	₹E	—				—		—			—	—		—	$\neg$	ΠΔ	TE	FF	EB 9	20		—	—						
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Proc Year	\ \ \	<b> </b>	1 Oct	1 Oct	T	٧	C	N	В	R	R	Y	N	L		Р	╧	r v	1	C N	1	В	A R	R	Υ	N	I L	(	G I	Р	Т	٧	С	A N	Е	3 F	₹	R	Υ	N		G	۔ F	PR
C-32 VCX	+-			<del> </del>	++	$\dashv$	H	$\dashv$	$\vdash$	H	-	<del> </del> '	<del> </del>	$\vdash$	+	+	+	+	+	+	+	+	$\dashv$		$\vdash$	┼	$\perp$	$\downarrow$	7	$\overline{+}$	_		<u> </u>	lacksquare	$ar{\perp}$	$ \downarrow $	7	$\exists$	$\Box$		$\Box$	$\perp$	#	丰
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Exhibit P-40, Budget Iter	n Justific	ation				Date	February	1999				
Appropriation (Treasury) Code				ımber			P-1 Line I					
Aircraft Procurement, Air Forc							ľ		)305116F	:)		
Program Element for Code B It		<u>-</u>			Other Rel	ated Prog					4258F (RDT&E	ΔF)
	Prior	ID									To	·, / · ·
	Year	Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005		Total
		Α										
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		Continuous	16.3
Total Proc Cost (\$M)	170.4		24.5	28.2	37.1	38.0	38.4	39.3	49.0		Continuous	466.0
Flyaway Unit Cost (\$M)	-		-	-	-	-			40.0	-71.1		400.0
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.

- 1. 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.
- 2. 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.

	A. APPROPRIATION/BUD	GET	B. WEA	PON MO	DRL/		C. MZ	ANUFACTURERS	NAME /			D. D	ATE	
WEAPON SYSTEM	ACTIVITY TITLE/NO.			ES/POE	•			ANT CITY/STA	•	TON		D. D.	MID	
COST ANALYSIS	Aircraft Procurement	, Air For							Docks	1011				
EXHIBIT (P-5)	Budget Activity 04, Oth	er	Targ	et Dro	nes		l Te	ledyne Rya	ın. San	Diego	CA	Februar	10	
	Aircraft		_	5116F)			-	realne whe	m, san	Diego	), CA	rebrua	гу 19:	,,
	_!					TOTAL (	COST	IN MILLION	IS OF D	T.T.AD	· · ·			
WEAPON S	YSTEM	IDENT	ļ	FY98			FY99			FYOO			FY01	
COST ELE	MENTS	CODE								F100			FIUI	ı
			UNIT	I "	QTY	UNIT	Γ —	QTY	UNIT		QTY	UNIT		OTY
			COST	TOT	AL COST	COST	TO	TAL COST	COST		AL COST	COST	TOT	AL COST
USAF SSATs		λ	· · · · · ·	<u> </u>			<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·						
<b>_</b>														
Flyaway Cost BOM-34 SSAT														
BQM-34 SSAT				l										
	nes		0.838	(7)	5.866	0.838	(8)	6.703	0.525	(37)	19.425	0.650	(15)	9.750
2. ECO 3. GFE											0.350			0.430
J. Gre Engines	_						İ							
_			0.022		.154	0.022		.176	0.022		.814	0.022	(15)	.330
	Band) Transponders		0.002		.014			.016	0.002		.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 SSA	VIII. CIII. (CIIII.)													
DUAL ROLE SSA	•													
DUAL ROLE SSA	AT RECUR							a				1.000	(6)	6.000
Cubbat 3 s	101 W													
Subtotal S	SSAT Hardware				6.048			6.912			20.752			16.576
Nonrecurring	and Ancillary Cost				N/A			N/A			N/A			N/A
Total SSAT Flyawa	ıγ				6.048			6.912			20.752			16.576

P-1 Line

Page 1 of 4 Pages Exhibit P-5 Program Cost Breakdown

	A. APPROPRIATION/BUD	GET	B. WEA	PON MODEL/		C. MANUFACTURERS	NAME/		D. D	ATE
WEAPON SYSTEM	ACTIVITY TITLE/NO.		SERI	ES/POPULAR		PLANT CITY/STA	TE LOCAT	ION		
COST ANALYSIS	Aircraft Procurement	-	NAME							
EXHIBIT (P-5)	Budget Activity 04, Oth		Targe	et Drones		Teledyne Rya	ın, San	Diego, CA	Februa	ry 1999
	Aircraft, Item No. 7	,	(030	5116F)						
				7	TOTAL (	COST IN MILLION	S OF DO	LLARS	L	· · · · · · · · · · · · · · · · · · ·
		IDENT		FY98	ļ -	FY99		FY00	Γ	FY01
ELEMENT OF	COST	CODE								
			UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY
			COST	TOTAL COST	COST	TOTAL COST	COST	TOTAL COST	COST	TOTAL COST
Command and Launch	Equipment			0.000		0.000		0.000		0.00
SSAT Support Cost										
1. Data/Tech				0.000		0.614		0.000		0.00
2. First Arti	cle Acceptance Testi	ng j		0.000		0.500		0.000		0.00
3. AFSAT FQT	Testing									0.15
4. Government	Support									0.23
Range Sys	tems Support-Drone Co	ontrol Sof	tware	0.000		0.150		0.300		0.30
	upport at Redstone A	rsenal		0.134		0.157		0.159		0.00
Other Tec	hnical Support			0.414		0.858		0.865		0.75
Other				0.124		0.136		0.335		0.27
5. Interim Ma	int Supp for VDOPS			0.500		0.770		0.000		0.00
Subtotal SSAT Supp	ort	:		1.172		3.185		1.659		1.47
Net P-1 Full F	unding Cost			7.220		10.097		22.411		18.052
Other Non P-1	Weapon Systems Cost			0.000		0.000		0.000		0.00
Initial Spares				0.000		0.683		0.885		0.60
Total SSAT Pro	curement Funding			7.220		10.780		23.296		18.65
Total SSAT Pro	gram			7.220		10.780		23.296		18.65
				····	P-1 Lir					of 4 Pages

Exhibit P-5 Program Cost Breakdown

		A. APPROPRIATION/BUDG	BET	B. WEA	PON MODEL/		C. MANUFACTURER	S NAME/		D. D.	ATE	
WEAPON SYS	STEM	ACTIVITY TITLE/NO.		SERI	ES/POPULAR		PLANT CITY/ST	ATE LOCAT	TION			
COST ANALY	YSIS	Aircraft Procurement	, Air For	NAME			Ì					
EXHIBIT (E	P-5)	Budget Activity 04, Other	er	Targ	et Drones		Tracor; Aus	tin, TX		Februa	rv 1999	,
		Aircraft		(030	5116F)							
		<u> </u>		<del></del>		TOTAL	COST IN MILLIO	NS OF D	OLLARS	_		
W	EAPON SY	STEM	IDENT		FY98		FY99	<u> </u>	FY00		FY01	
c	OST ELEM	ents	CODE									
				UNIT	QTY	UNIT	OTY	UNIT	QTY	UNIT		TY
				COST	TOTAL COST	COST	TOTAL COST	COST	TOTAL COST	COST	_	cosı
QF-4			A						***			
Flyaway Co	ost											
QF-4 H	Iardware	Recurring										
1.	Aircraft	Drone Mod & Integ		0.631	(11) 6.941	0.616	(12) 7.393	0.630	(12) 7 559	0.614	(19)	11.0
2.	Scoring	System (VDOPS)			NSP		NSP		NSP	0.011	(10)	N:
3.	F-4 In F	lant Repairs			0.227		0.252		0.256			0.39
4.	Environ	Stress Test of Destru	ct Units	ĺ	NSP		NSP	i	NSP			NS NS
5.	Engineer	ing Change Orders			1.291		0.978		0.958			1.16
6.	Warranty	,			0.183		0.186		0.189			0.19
7.	Aircraft	Withdrawal/AMARC							0.203	i		0.1.
	Restrict	ed Manned Perf to 3G		0.235	(3) .705	0.239	(8) 1.912	0.243	(12) 2.915	0.247	(18)	4.4
	Unrestri	cted Manned Perf to 6	G	0.695	(8) 5.560	0.750			(,,		(10)	
8.	MILSTRIE	RSD			0.150		0.150		0.150			0.20
9.	MILSTRIE	EOQ			0.200		0.200		0.200			0.30
Sub	total QE	-4 Hardware			15.257		14.071		12.226			17.76
Nonrec	urring a	nd Ancillary Cost			N/A		N/A		N/A		N	/ <b>A</b>
			:							į		
otal QF-4	Flyaway				15.257		14.071		12.226			17.76

Page 3 of 4 Pages Exhibit P-5 Program Cost Breakdown

For NAME Targ	QTY TOTAL COST  0.000 0.000	UNIT COST	PLANT CITY/STA Tracor; Aust COST IN MILLION FY99  QTY TOTAL COST  0.000	in, TX		Februar UNIT COST	FY01  QTY  TOTAL COST
Targ (030	QTY TOTAL COST  0.000 0.000	UNIT	COST IN MILLION FY99  QTY TOTAL COST  0.000	S OF DO	QTY TOTAL COST	UNIT	DIA DIA
(030	0.000 0.000 0.000	UNIT	COST IN MILLION FY99  QTY TOTAL COST  0.000	S OF DO	QTY TOTAL COST	UNIT	DIA DIA
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UNIT	QTY TOTAL COST 0.000 0.000	UNIT	QTY TOTAL COST 0.000	UNIT	QTY TOTAL COST		QTY
UNIT	QTY TOTAL COST 0.000 0.000		QTY TOTAL COST 0.000		QTY TOTAL COST		QTY
UNIT	0.000 0.000 0.000		TOTAL COST		TOTAL COST		_
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COST	0.000 0.000 0.000	COST	0.000	COST		COST	TOTAL COST
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	1 0 054		0.000		0.000		0.000
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	0.025		0.016		0.016		0.01
	0.121		0.123		0.125		0.123
	0.000		0.000		0.000		0.000
	1.164		1.219		1.317		1.433
•	0.000		0.000		0.000		0.000
	1.364		1.414		1.515		1.636
	16.621		15.485		13.741		19.396
	0.000		0.000		0.000		0.000
	0.726		1.878		0.000		0.000
	17.347		17.363		13.741		19.39
	17.347		17.363		13.741		19.39
		17.347	17.347	17.347 17.363	17.347 17.363	17.347 17.363 13.741	17.347 17.363 13.741

Exhibit P-5 Program Cost Breakdown

				and Planı			Weapon	System			DATE:
Appropriation (Treas							P-1 Line	Item Nome	enclature		February 1999
Aircraft Procurement,	Air Fo	rce, Bu	dget Activit	y 04, Other	Aircraft		Target	Drones (	0305116F	)	
					CONTRACT	-		DATE OF	SPECS	DATE	
4/D0 0007 51 51451	l					CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS	
VBS COST ELEMENTS	QTY	COST	OF PCO	DATE	TYPE	AND LOCATION	DATE	DELIVERY	NOW?	AVAILABLE?	
QF-4											
Aircraft Mod											
FY98			AAC/WRA		FFP	TRACOR: Austin, TX	APR 98	JUN 98	YES	ı	
Option FY99			AAC/WRA		FFP	**	DEC 98	JUN 99	YES		
Option FY00		0.980	AAC/WRA		FFP	"	DEC 99	JUN 00	YES		
Option FY01			AAC/WRA		FFP	11	DEC 00	JUN 01	YES		
lote: FY98 Begins a Ne	w Proc	luction C	Contract								
QM-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	I	FFP	Teledyne, San Diego, CA	OCT 01	JAN 02			
UAL ROLE SSAT (AFS	AT)										
FY01	6*	1.000	AAC/WRA		FFP	TBD	NOV 00	NOV 01	NO		
Option FY02			AAC/WRA		FFP	TBD	MAR 02	JUN 03	NO		
	sch cor	npeting v	vandor								

P-1 Shopping List

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

Exhibit P-5a, Pro							Weapon	System			DATE:
Appropriation (Treas							P-1 Line	Item Nome	enclature		February 1999
Aircraft Procurement,	Air Fo	orce, Bu	dget Activit	y 04, Other	Aircraft		Target	Drones (	0305116F		•
					CONTRACT			DATE OF	SPECS	DATE	
						CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS	
WBS COST ELEMENTS	QTY	COST	OF PCO	DATE	TYPE	AND LOCATION	DATE	DELIVERY	NOW?	AVAILABLE?	
QF-4											
در ⊶ Aircraft Mod											
	44	4 404	4.4051105								
FY98			AAC/WRA		FFP	TRACOR: Austin, TX	APR 98	JUN 98	YES		
Option FY99			AAC/WRA		FFP	"	<b>DEC 98</b>	JUN 99	YES		
Option FY00			AAC/WRA		FFP	**	DEC 99	JUN 00	YES		
Option FY01			AAC/WRA		FFP	"	DEC 00	JUN 01	YES		
Note: FY98 Begins a Ne	w Prod	duction C	ontract								
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 (AFS	AT)										
FY01	6*	1.000	AAC/WRA		FFP	TBD	NOV 00	NOV 01	NO		
Option FY02	22		AAC/WRA		FFP	TBD	MAR 02	JUN 03	NO		
First Articles, 2 from ea	ich coi	mpeting v	endor/								
	-				P-1 Shoppin	a lint					

P-1 Shopping List

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

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ITEM/MANUFACTURER	E	PROC	PRIOR	DUE							CAL	EN	DAR	YR 9	96										DAR	YR 9	97		<u> </u>			Τ		, , , ,			DAR	VP	98	—	Ā
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P-1 SHOPPING LIST

Page 4 of 4 Pages
Exhibit P-21 Production Schedule

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	EV04	EVOET	
	THOR TENTO	1137	1 7 30	1133	1 100	F101	F 1 02	F 103	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	0000.1

#### 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 aperature 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.

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

<sup>\*</sup> This unit cost is a computation of Total Flyaway divided by the quantity.

#### 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

	DDIOD VEADOL	E) (0.7)	51/22								
	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:

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 aperature 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.

The Advanced Buy funding identified is for long lead procurement of those items detailed on the P-10.

#### 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 quanity. FY95 unit cost has the \$85.5M appropriated in FY95 PBD 632 for purchase of aircraft platforms.

**EXHIBIT P-5** 

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Bu Title/No.	dget Activity	B. Popular Name		C. Manufacturer		D. Date	
	AIRCRAFT PROCU AF/BA04/OTHER AI		Joint STARS		Northop Grumman Melbourne System Melbourne, FL		Feb-99	
	FY97	QTY 2	FY98	QTY 1	FY99	QTY 2	FY00	QTY 1
	Unit Cost	Total Cost		Total Cost		Total Cost	Unit Cost	
1. AIRFRAME	134.5	269.1	153.2	153.2				
2. AVIONICS: CFE	58.7	117.3		73.1		286.4	121.4	121.4
GFE	3.3	6.6		4.5		121.5	87.5	87.5
3. ARMAMENT	0.0	0.0		0.0		5.2	5.2	5.2
4. OTHER GFE	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		0.0 0.2	0.0	0.0
6. NON-RECURRING COSTS	8.8	17.5		16.0	1	19.1	0.8	0.8
7. OTHER COSTS	29.8	59.6		53.6		63.3	0.0 54.0	0.0
			00.0	00:0	<u> </u>	03.3	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		0.4				
12. PECULIAR TRAINING EQUIPMENT		9.6		3.1		5.3		0.0
13. PUBLICATIONS/TECH. DATA		6.0		4.6		6.1		0.0
14. PGM MGMT ADMIN. (PMA) REQ.		0.0		10.4		5.9		2.4
15. OTHER		26.4		24.7 25.6		27.3		14.5
		20.4		25.0		34.5		30.3
16. SUPPORT COST		46.4		68.5		79.1		47.2
17. GROSS P-1 COST	225.0	540.4						
18. LESS: PRIOR YR ADV. PROC.	235.0	516.4	301.0	369.6	247.8	574.8	268.9	316.2
19. NET P-1 COST	235.0	-128.5 387.9	304.0	-67.0		-115.2		-35.9
	235.0	367.9	301.0	302.6	247.8	459.6	268.9	280.3
20. PLUS: CURRENT YR ADV. PROC.		144.1		40.0				
21. PLUS: INITIAL SPARES		0.0		18.0		35.9		0.0
22. PLUS: MODS (BP11)		0.0		35.3		68.0		73.7
•						44.1		28.6
23. TOTAL	235.0	532.0	301.0	355.9	247 8	607.6	260 0	382.5
NOTES:	235.0	532.0	301.0	355.9	247.8	607.6	268.9	

DUDGET DDGGUDE	MENT HIGTORY AND DI ANDUNA							A. DATE:		
BUDGET PROCURE	MENT HISTORY AND PLANNING	EXHIBIT (P-5A)							FEB 99	
B. APPROPRIATION	/BUDGET ACTIVITY			C. P-1 ITEM	NOMENCLATI	JRE		<u> </u>		
AIRCRAFT PRO	CUREMENT,AF/BA04/OTHER AIR	CRAFT			Joint STARS					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE 0F FIRST DELIVERY	QTY	UNIT	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIRFRAME										
FY97 FY98 FY99 FY00 SUPPORT	GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE	SS/FP SS/FPI SS/FPI SS/FPI	ESC/JSK ESC/JSK ESC/JSK ESC/JSK	JUN 97 MAY 98 APR 99 DEC 99	FY00 FY01 FY02 FY 03	2 1 2 1	235.0 301.0 247.8 268.9	YES YES YES YES	YES YES YES YES	ONGOING ONGOING ONGOING
FY97 FY98 FY99 FY00	GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE GRUMMAN/MELBOURNE	SS/FP SS/FP SS/FP SS/FP	ESC/JSK ESC/JSK ESC/JSK ESC/JSK	NOV 96 NOV 97 NOV 98 NOV 99	* * *	N/A N/A N/A N/A	N/A N/A N/A N/A	YES YES YES YES	YES YES YES YES	ONGOING ONGOING ONGOING 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).

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

**EXHIBIT P-21** 

FY00 Estimated PB Production	Sche	edule	Exh	ibit P-21	P-1	C O E A E A P A U U U E G P  V C N B R R Y N L G P											·			•				DAT	E:	F	EB 9	99													_
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(PROCUREMENT	FOF ADVANCE DE	REMENT EXHIBIT (P-10) SIGN AND MATERIAL)		PRIOR YEAR FOR FISCAL	YEAR PROGRAM: FY 1997 for FY 199	8 & FY 1999
	TOA, DOLLARS IN	MILLIONS)			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	Dec-96 (P11) Oct 97 (P12,13)	FY01 FY02	12 (5/12) 17	55.9 34.1	55.9 68.7
OVER AND ABOVE MODIFICATIONS	1.0	Dec-96 (P11) Oct-97 (P12,13)	FY01 FY02	12 (5/12) 17	7.8 2.2	7.8 4.4
CONFIGURATION UPDATE	1.0 2.0	Dec-96 (P11) Oct-97 (P12,13)	FY01 FY02	12 (5/12) 17	2.0 2.0	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

## 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.

(PROCUREMENT	OF ADVANCE DE	REMENT EXHIBIT (P-10) SIGN AND MATERIAL)		PRIOR YEAR FOR FISCAL	YEAR PROGRAM FY 1998 for FY 19	
(	TOA, DOLLARS IN	MILLIONS)			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
						10.0
NAPPATIVE DESCRIPTION						

#### 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.

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Quantity	Date Contract Award Planned/Required	Delivery Date of First Equipment Required	Production Lead Time in Months (Admin/Prod) - Total	Unit Cost	Total Cost
1.0	Mar 99 (P14)	FY 03	(5/12) 17	30.4	30.4
1.0	Mar 99 (P14)	FY 03	12	3.5	3.5
1.0	Mar 99 (P14)	FY 03	12	2.0	2.0
				35.9	35.9
				0.0	0.0
				N/A	35.9
	OF ADVANCE DE (TOA, DOLLARS IN Quantity 1.0	TOF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)  Date Contract Award Planned/Required  1.0 Mar 99 (P14)  1.0 Mar 99 (P14)	TOF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)  Date Contract Award Planned/Required  1.0 Mar 99 (P14)  Ty 03  1.0 Mar 99 (P14)  Fy 03	TOF ADVANCE DESIGN AND MATERIAL) (TOA, DOLLARS IN MILLIONS)  Date  Date Production Lead Time in Months (Admin/Prod) - Total  1.0 Mar 99 (P14)  PY 03  (5/12) 17  1.0 Mar 99 (P14)  FY 03  12	Date

## 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.

DD Form 2454, JUN 86

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	Years	Code	FY1998	FY1999	FY2000	FY 2001	FY 2002	FY2003	FY2004	FY2005	Complete	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										00.000	Continuing	Continuing

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

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CLASSIFICATION:

**UNCLASSIFIED** 

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Global Hawk/Teledyne Ryan	FY02	F	1	1	0	╂─┤	-	$\dashv$	<del></del>		$\dashv$	<del></del>	<u> </u>	<u> </u>	<u> </u>		$\dot{-}$	<del></del>	<u> </u>	<u> </u>	<u> </u>			_^	Υ	N	L	G	Р	
Global Hawk/Teledyne Ryan	FY03	F	3	0	3	1	$\Box$			1		<del>                                     </del>	$\rightarrow$	1	<b> </b>			<b></b>			<u> </u>	1		<b> </b>			<b> </b>			0
Global Hawk/Teledyne Ryan	FY04	F	3	0	3			-		•		$\vdash$	$\rightarrow$	-	$\vdash$	-+		1			<b>├</b> ─-	1	-			1	<u> </u>			0
Global Hawk/Teledyne Ryan	FY05	F	4	0	4				1			$\Box$				-		<del>                                     </del>			├		$\dashv$	<b> </b>						0
Common Ground Station/Raytheon	FY05	F	1	0	1									$\neg$				$\vdash$	-	$\vdash$	<del> </del>	-	-	$\vdash$		_				4
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DD Form 2445, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

ITEM NO

PAGE

		В	UDGET ITE	M JUSTIFI	CATION S	HEET			·	DATE:	
				P-40						Feb	1999
APPROPRIATION/BUDGET AIRCRAFT PROCUREI		R FORC	 E			P-1 ITEM NO			IED AERIA	L VEHICLE	
Program Element for Code B 0305205F	Items:					Other Relate					-
	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) Unit Cost (\$M)			\$135.753	\$114.167	\$38.003	\$22.648	\$20.024	\$27.171	\$27.884	\$28.453	70

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, production, engineering

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.

P-1 SHOPPING LIST

ITEM NO

PAGE NO

CLASSIFICATION:

# **UNCLASSIFIED**

	WEAPONS SYSTEM COST ANALY	YSIS						DATE:	
A DDD ()	P-5 PRIATION/BUDGET ACTIVITY							Fe	b 99
	t Procurement, Air Force			P-1 ITEM NOME	ENCLATURE/SUBHI	EAD			
	Trocaromong Am Torce			  Predator Unm	anned Aerial Vehi	cle			
			TOTAL COST	IN THOUSANDS		CIC			
					or Bobbinds				
COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY	1998	FY	1999	FY	2000
			Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
	Predator Systems								
	System: Air Vehicles, Data Links, SARs, Ground Control Stations, Trojan Spirits*				91.164		82.491		24.2
	P3I				12.338		12.474		4.1
	Production Support				3.761		3.970		4.0
	Interim Contractor Logistics Support				6.100		0.000		0.0
	Integrated Logistics Support*				22.390	:	15.232		5.6
	Other								
	*Internated Logistics O								
	*Integrated Logistics Support includes Spares.			İ					
			0		135.753		444.40**		
D FORM	1 2446, JUN 86	P-1 SHO	PPING LIST	<u></u> .	133.753		114.167 CLASSIFICATIO	NI.	38.00

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**UNCLASSIFIED** 

	WEAPONS SYSTEM COS	T ANALYS	IS		Weapon Sy	rstem				DATE:		
	PRIATION/BUDGET ACTIVITY t Procurement, Air Force				ID Code A		OMENCLATO				Fe	b 99
COST	ELEMENT OF COST	FY	2001	FY	2002	<u> </u>	2003		2004	FY	2005	Total
CODE		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Costs
	Predator Systems											
	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	i	0.201		0.299		0.346		0.364	
	Note: The FY2001-2005 funding includes n	o additional	systems, but	does include	e additional a	ttrition Air Ve	ehicles.					
	1 2446, JUN 86		22.648		20.024		27.171	_	27.884		28.453	

PAGE NO.

CLASSIFICATION:

# **UNCLASSIFIED**

BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
DODGET TROCCKE				•		Predator UAV			Fel	b 99
B. APPROPRIATION/BUDGE Aircraft Procurement,					C. P-1 ITEM NO	MENCLATURE manned 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
Predator FY98 Systems Attrition Reserve Vehicle SAR Payload Trojan Spirit II	2 8 17 2	N/A N/A N/A N/A	PEO(CU) - UAV JPO PEO(CU) - UAV JPO CECOM CECOM		SS/FFP SS/FFP SS/FFP CP/FFP	General Atomics General Atomics Northrop Grumman Electro Space Sys., Inc.	Mar 98 Dec 98 Feb 98 Jan 98	Oct 99 Jul 99 Sep 99 Aug 99	Yes Yes Yes Yes	
FY99 Systems SAR Payload Trojan Spirit II Attrition Reserve Vehicle	1 8 2 11	N/A N/A N/A N/A	ASC/RAKB CECOM CECOM ASC/RAKB		SS/FFP SS/FFP SS/FFP	General Atomics Northrop Grumman Electro Space Sys., Inc. General Atomics	Jan 99 Jan 99 Jan 99 Jan 99	May 01 May 00 Apr 00 Sep 00	Yes Yes Yes Yes	
FY00 Systems SAR Payload	1 5	N/A N/A	ASC/RAKB CECOM		SS/FFP	General Atomics ASI - San Diego Northrop Grumman Baltimore, MD	Jan 00 Jan-00	Aug 02 Nov-00	Yes	
Trojan Spirit II	2	N/A	СЕСОМ		CP/FFP	Electro Space Sys., Inc. Richardson TX	Jun 00	Apr 01	Yes	
FY01 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

The SAR will be procured separately under a contract with Northrop Grumman (3 SARs per system).

2. The FY98 and FY99 procurements include attrition air vehicles as well as system air vehicles.

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. PAGE NO. 131

<sup>1.</sup> 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.

# **UNCLASSIFIED**

BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIB	IT (P-5A)		Weapon System		A. DATE		
						Predator UAV			Feb 99	
. APPROPRIATION/BUDGE Aircraft Procurement,					C. P-1 ITEM NO	MENCLATURE  manned 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 AVAILAB
Predator		( )								
<u>Y02</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	
FY03 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	СЕСОМ		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	СЕСОМ		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	Dec 04	Jan 06	Yes	
	5	N/A	СЕСОМ		SS/FFP	ASI - San Diego Northrop Grumman	Jan 05	Nov 05	Yes	
SAR Payload		IN/A	CECOM			Baltimore, MD				

D. REMARKS

PAGE NO. 132

<sup>1.</sup> See note 1 previous page

PROPRIATION/BUDGET ACTIVITY	FY 1999/00 BUDGET PRODU	CTION S	CHE	DULE	P-21														DATE						1999						
Name and Location   Manufacturer's   M																Sys	tem														
Manufacturer's   Name and Location   MSR   1.8-5   MAX   1.8-5   MAX   1.8-5   MAX   1.8-5   MAX   MI   MI   MI   MI   MI   MI   MI   M																						mar	nned	I Ae	rial \	∕ehi	cle				_
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P-1 SHOPPING LIST

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P-1 SHOPPING LIST

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311 / 244

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P-1 SHOPPING LIST

ITEM NO

<b>FY 1999/00 BUDGET PRODUCT</b>	ION S	SCHE	DULE	, P-21														DATE				F	ebri	Jary	1999	}				
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311/244

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P-1 SHOPPING LIST

ITEM NO

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I DDD ODDY I MICHAEL		HIBIT P-40, BUD	GET ITEM JUST	IFICATION SHEE	T		DATE: FEBRUARY	1999
APPROPRIATION/B	UDGET ACTIVITY							
Aircraft Procurement (	(3010)/Budget Activity 06							
	1998	1999	2000	2001	2002	2003	2004	2005
QUANTITY					*			2002
COST								·
(MILLIONS)	278.639	520.903	420.921	420.207	324.278	328.880	313.590	284.7

#### 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 rampinig 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**

**DD FORM 2454** 

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>	2003	<u>2004</u>	2005
WCF SPARES	207.741	316.874	313.329	241.247	128.066	119.261	111.890	86.433
EXEMPT SPARES	70.898	<u>204.029</u>	<u>107.592</u>	<u>178.960</u>	196.212	209.619	201.700	<u>198.283</u>
TOTAL	278.639	520.903	420.921	420.207	324.278	328.880	313.590	284.716

EXHIBIT P-40

P-1 SHOPPING LIST

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	INITIAL SPARES FU	INDING			DATE
	AIRCRAFT PROCUREMENT, BU	JDGET ACTIVIT	`Y 06		Feb-99
D. I. I. D. ID					
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 FUNI AIRCRAFT PROCUREMENT, BUDO				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

EXHIBIT P-18a PAGE 2 OF 4

	INITIAL SPARES FUNI AIRCRAFT PROCUREMENT, BUDO	DING GET ACTIVITY 06			DATE FEB 1999
P-1 LINE	The fibrility in the state of t	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

EXHIBIT P-18a PAGE 3 OF 4

	INITIAL SPARES FUNI				DATE
	AIRCRAFT PROCUREMENT, BUDO	SET ACTIVITY 06			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

EXHIBIT P-18a PAGE 4 OF 4

PROGRAM COS	T BREAKD		DATE: Feb-99								
B. APPROPRIATION/BUDGET ACTIVITY	Y		1 00-77								
Aircraft Procurement, AF (3010)/BA06		Aircra	aft Initial Spares								
	IDENT		FY98		FY99		FY00		FY01		
ELEMENT OF COST	CODE	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		

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



BUDGET ITEM JUS	TIFICATION (E	XHIBIT P-40)			DATE: FEBRUARY 1999						
APPROP CODE/BA			-	P-1 NOM	P-1 NOMENCLATURE:						
APAF/COMMON SUPPO	RT EQUIPMENT			COMMON	SUPPORT EQU	PMENT (OVER	/IEW)				
	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			
Description:											
1. This program proviequipment for out-of-psystem), are used in diserviceable, supportable failures and spare part due to environmental handling equipment, justification These items are applied.  2: Items to be procured.	production aircra irect support of a le equipment ov s which are no le operating construct et engine test sta cable across mul-	aft. These items, aircraft maintenancer the life of a wonger available of aints. Items of earths, electronic to tiple weapon systems are listed.	common (used nee and servici eapon system. It not economic quipment budg est sets, lift truc- tems.	d on more than on the second of the second o	one weapon system. These replaced range in any items are tervionics test statistics, maintenanced by individual	em) and peculicement requireme	ar (unique to on ents ensure cont 30 years old, ha bsolete or are b icing equipment	tinuation of ve frequent eing replaced t, munitions			
		<b>P-1 ITEM NO</b> 66	):		PAGE NO	<b>)</b> :	Page	e 1 of 1			

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)

	ID	FY1	998	FY1999		FY20	000	FY2001	
PROCUREMENT ITEMS	CODE	QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
I. STORES MANAGEMENT SYS	Α	52	\$6,240						
2. AIRCRAFT MAINT FIXTURE	A	4	\$15,880						· ·
3. COMPRESSOR, GAS TURBINE	Α	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)	Α			1	\$ 6,000				
7. TRANSPONDER TEST SET	Α	7	\$309	4	\$300	178	\$7,411	240	\$9,25
8. TRUCK MOUNTED DEICER	A	45	\$10,884	60	\$14,952	45	\$11,386	22	\$5,40
9. LINKLESS AMMO LOADING SYSTEM (LALS)	A	35	\$5,512	1	\$190	16	\$2,608	48	\$7,96
10. MAINTENANCE PLATFORM, HIGH REACH	Α	7	\$4,003	16	\$10,536	9	\$6,223		
11. 305 RF BRAT	Α	4	\$11,152		\$6,450		\$7,450		\$7,45
12. 405 RF TRANSPORTABLE BRAT	Α	9	\$15,256		\$8,750		\$7,450		\$7,45
13. ELECTRONIC SYSTEM TEST STATION (ESTS)	А		\$1,725		\$19,900	5	\$20,025		\$22,52
14. NEW GENERATION HEATER	Α			8	\$3,500	200	\$2,137	1200	\$13,46
15. SELF GENERATING NITROGEN SERVICING CART (SGNSC)	Α			2	\$635	133	\$5,163	360	\$12,17
16. HYDRAULIC COMPONENT TEST STAND HCT-20	Α			2	\$949			63	\$12,24
17. COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)	A				\$500	270	\$8,096	270	\$5,32
18. JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)	A					33	\$7,472	71	\$18,28
19. ITEMS LESS THAN \$5 MILLION	A		\$48,386		\$66,954		\$85,948		\$61,61
Totals:			\$144,037		\$157,664		\$171,369		\$183,151

	I I	INCL ASSIEIED		151
	<b>P-1 ITEM NO:</b> 66	PAGE NO:	Pag	e 1 of 1
Remarks:				
Totals:		5144,037   5157,004	1 \$171,309	\$100,101

BUDGET ITEM JUS	TIFICATION (E	XHIBIT P-40)		AOOII ILL		DATE:	FEBRUARY 199	9			
APPROP CODE/BA:					P-1 NOMENCLATURE:						
APAF/COMMON SUPPO	RIEQUIPMENT			TRANSPOR	IDER TEST SET						
	FY1998 FY1999 FY2000 FY2001 FY2002 FY2003 FY200						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			
Description:	40001	<del>4000  </del>	<del></del>	70,-0-1		, =	7 - 1, 1				
1. The AN/APM-424 an air traffic control Id indicator screen near the aircraft has a properly aircraft as "friendly" at of Staff direction for a conduct operational MF-15, F-16, F-117, KC.  2. Failure to procure to "squirt check" the Modurit check" and lead	lentification Frie he sighting retice functioning, pro nd prevents "frie Il services/comm lode 4 checks pri 2-135, T-38, and his Transponder de 4 at preflight	nd or Foe (IFF), a ule. The device deperly set up Mode endly fire". FY98 nands to possess of for to flight. The helicopters.  Test Set will result in ground	and triggered to bes a quick and 4 (cryptosed -01 procurem perable IFF/I following aircult in the aircrounding of an	to do a systems vand thorough verificate mode) electronent funds shortage Mode 4 for every craft are supported aft's inability to a aircraft and miss	verification "squification of IFF monic identification of IFF monic identification of the conduct replacement of the conduct preflight."	rt test". Resulted to the capable IFF tents of test seand rotary wire: B-52H, C-5	Its are seen on a g determining if F. This code ide its generated by ng aircraft sortie, C-130, C-135,	n internal The target ntifies the Joint Chiefs and to C-141, E-3,			
		<b>P-1 ITEM NO</b> : 66			PAGE NO:		Page	1 of 1			

WEAPON SYSTEM COST	ANALYSIS	(EXHIB	IT P- 5)							ATE:	FEBRU.	ARY 19	99
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	JIPMENT				P-1 NOMENCLATURE: TRANSPONDER TEST SET								
WEAPON SYSTEM	IDENT		FY1998	<u> </u>		FY1999			FY2000			FY2001	
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT	TOTAL COST	QTY	UNIT COST	TOTAL COST
TRANSPONDER TEST SET	А	7	44,120	309	9 4	75.000	300	178	37,848	6,737	240	38,550	9,252
DATA										674			
TOTALS:				309	9		300	u u	1	7,411			9,252
	<b>P-1 ITEM</b> 66	I NO:	<del></del>		PAG	GE NO:					Pa	ge 1 of 1	

BUDGET PROCUREMENT	BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)									
APPROP CODE/BA: APAF/COMMON SUPPORT EQ	UIPMEN	lΤ		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	, ,	
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	Υ		
FY01 (3)	240	38,550	AFMC/SA-ALC	OPT/FFP	UNKNOWN	JAN 01	FEB 01	Y		

#### **REMARKS:**

- FY98 option to FY95 sole source contract.
   FY99 procures four First Articles. Unit cost based on engineering estimate.
   FY00/01 unit cost based on FY95 contract price plus escalation.

P-1 ITEM NO: 66	PAGE NO:	Page 1 of 1
	UNCLASSIFIED	154

			OIIOE/	VOOII IL							
BUDGET ITEM JUS	STIFICATION (I	EXHIBIT P-40)	_		-	DATE:	FEBRUARY 199	9			
APPROP CODE/BA		-			P-1 NOMENCLATURE: TRUCK MOUNTED DEICER						
	FY1998	FY1999	FY2000	FY2001	1 FY2002 FY2003 FY2004						
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			
1. The Truck Mounted defrosting, or decontal access to any area on height of 48 feet. FY deicer: B-1, B-52H, Carrier and the second sec	mination fluids. the aircraft whicl 98-01 procures in C-5, C-17, C-130 the Truck Mount	The mobility of the his normally inactive initial shortages and the control of th	the truck and macessible from to describe the replacement 135.  The reference to protect the replacement to the reference to protect and many the reference to protect and many the reference to protect and many the reference to protect and many the reference to protect and many the reference to protect and many the reference to protect and many the reference to protect and many the reference to	aneuverability of the ground. At deicers. The form the mission reading ect mission required.	of the aerial platfor ground level, the ground level, the ollowing aircraft and ess of all unshelt uired aircraft from	rm enables the spray outlet of re supported learning are greated aircraft of the control of the	e operating creve can reach a max by this truck-mo	w to have imum ounted			
		<b>P-1 ITEM NO:</b> 66			PAGE NO:		Page	1 of 1			

ONOLAGOI ILD													
WEAPON SYSTEM COST A	NALYSIS	(EXHIB	IT P- 5)						С	ATE:	FEBRU	ARY 19	99
APPROP CODE/BA: APAF/COMMON SUPPORT EQUII	PMENT				P-1 NOMENCLATURE: TRUCK MOUNTED DEICER								
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000			FY2001	
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT	TOTAL COST
TRUCK MOUNTED DEICER	A	45	233,281	10,49	8 60	237.247	14,235	45	241.446	10,865	22		5,409
TRAINING (TYPE I)				380	6		717		.,	521		,	5,1.00
TOTALS:				10,884	4		14,952			11,386			5,409
	<b>P-1 ITEM</b> 66	NO:			PAG	E NO:					Pag	ge 1 of 1	

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	Г Р- 5А)		DATE:	FE	BRUAF		9
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	JIPMEN	IT		P-1 NOMENCLA TRUCK MOUNTED						
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION		AWD. DATE		SPECS AVAIL NOW	DATE REV. AVAIL
TRUCK MOUNTED DEICER										
FY98 (1)	45	233,281	AFMC/SA-ALC	OPT/FFP	LANDOLL CORP, MARYSVILLE,	KS D	EC 97	JUL 98		
FY99	60	237,247	AFMC/SA-ALC	C/FFP	UNKNOWN	F	EB 99	SEP 99	Υ	· · ·
FY00	45	241,446	AFMC/SA-ALC	OPT/FFP	UNKNOWN	N	IOV 99	SEP 00	Y	
FY01	22	245,878	AFMC/SA-ALC	OPT/FFP	UNKNOWN	N	IOV 00	JUN 01	Y	
	-									
										L
					-					
REMARKS:  1. FY98 option to FY96 contract av	warded	Jul 96.								
T										
	P-1	ITEM NO	D:	PAGE NO:				Page	e 1 of	1

			UNCL	<u> Aggirie</u>	<u>U</u>					
BUDGET ITEM JUS	STIFICATION (I	EXHIBIT P-40)				DATE:	FEBRUARY 1999	)		
APPROP CODE/BA	<b>\</b> :			P-1 NON	MENCLATURE:	•				
APAF/COMMON SUPP	ORT EQUIPMENT			LINKLESS	AMMUNITION LC	DADING SYSTE	NG 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		
Description:										
gun systems and is co FY98-01 procuremen supported by the LAI 2. Failure to procure sorties. This could re	t funds shortages LS: F-15, F-16, a the LALS may re	in the field and rand F-22.  esult in delays loa	eplaces assets ading 20mm ar	which have exc	seeded their servi	ce life. The fol	llowing aircraft	are		
<del>-</del>		P-1 ITEM NO:			PAGE NO:		Da	4 -5 4		
		66					Page	1 of 1		

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)					<u>-</u>					DATE:	FEBRU	ARY 19	99
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	PMENT			P	P-1 NOMENCLATURE: LINKLESS AMMUNITION LOADING SYSTEM (LALS)								
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000	1		FY2001	
COST ELEMENTS	CODE	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT	TOTAL
LALS	Α	35	157,483	5.512	1		185	16	162.995		48	165,987	7,967
DATA					-		5				10	100,001	7,001
		_											
TOTALS:				5,512			190			2,608	<u> </u>	<u> </u>	7,967
	<b>P-1 ITEM</b> 66	NO:			PAG	E NO:					Pag	e 1 of 1	

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	IIBIT P- 5A) DATE: FEBRUARY 1999						
APPROP CODE/BA: APAF/COMMON SUPPORT EQ	UIPMEN	IT			ATURE: NITION LOADING SYSTEM (	(LALS)				
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AW DA	D. LIDE			
LALS										
FY98	35	157,483	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY / WESTERN DESIGN HOW IRVINE, CA	/DEN, JAN	98 FEB 9	9		
FY99	1	185,000	AFMC/SA-ALC	MIPR/C/FFP	NAVY /NAWC/ UNKNOWN	MAF	99 AUG 0	0 Y		
FY00	16	162,995	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY /NAWC/ UNKNOWN	JUL	00 SEP 0	0 Y		
FY01	48	165,987	AFMC/SA-ALC	MIPR/OPT/FFP	NAVY /NAWC/ UNKNOWN	NO\	00 JAN 0	1 Y		
requiring a first article test. Navy f										
	P-1	<b>ITEM N</b> (66	O:	PAGE NO			Pa	ge 1 of	1	

BUDGET ITEM JUS	TIFICATION (E		DATE:	DATE: FEBRUARY 1999								
APPROP CODE/BA				P-1 NOMI	ENCLATURE:							
APAF/COMMON SUPPO	PRT EQUIPMENT			MAINTENA	MAINTENANCE PLATFORM, HIGH REACH							
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005				
QUANTITY	7	16	9		0	0	0	0				
COST (in Thousands)	\$4,003	\$10,536	\$0	\$0	\$0	\$0						
Description:												
<ol> <li>The High Reach M aerial lift consists of m boom and platform are assembly can be exten feet. Capacity of the p and C-17 aircraft. It is</li> <li>Failure to procure this item will suspend identified is borrowing</li> <li>Type Item: A</li> </ol>	e assembled to for ded to a maximulation is 1,500 s also used for do his High Reach maintenance and	s such as a turret, in orm an integrated r um height of 125 for lbs. The High Re eicing large aircraf Maintenance Platford d prevent inspection	nner and outenechanical steet and has a each Maintenet. FY00 functions will several procedures	er columns, and a cructure, providin maximum horize ance Platform is ding buys out the erely impact miss for the aircraft,	n inner/outer book of for vertical and contal reach of 60 sused to work on, current Air Forcesion readiness for most importantly	m and platfor horizontal m feet when the remove, and e inventory of the C-5 and the tail section	rm. The inner novement. The boom is externing the boom is externing the bjective for the C-17 aircraft.	and outer boom ded to 72 ers on the C-5 s item. The lack of				
		<b>P-1 ITEM NO</b> : 66			PAGE NO:		Page	e 1 of 1				

BUDGET PROCUREMEN	T HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FEBRUARY 1999				
APPROP CODE/BA: APAF/COMMON SUPPORT EC	QUIPMEN	ΙΤ		P-1 NOMENCL MAINTENANCE P	ATURE: LATFORM, HIGH REACH					
ITEM / FISCAL YEAR	QTY.	UNIT	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		
		<del></del>		!						
		···-								
			<del>-</del>							
REMARKS:										
REMARKS.										
	P-1	ITEM N	0:	PAGE NO	:		Page	= 1 of	1	
		66				· · · · · · · · · · · · · · · · · · ·	aye	, i Oi	ı	

BUDGET ITEM JUS	TIFICATION (	EXHIBIT P-40)				DATE:	FEBRUARY 199	9				
APPROP CODE/BA	:			P-1 NOM	IENCLATURE:							
APAF/COMMON SUPPO	ORT EQUIPMENT	Γ		305 RADIO TEST STATION								
	FY1998	FY1999	FY2002	FY2003	FY2004	FY2005						
QUANTITY												
COST (in Thousands)	\$11,152	\$6,450	\$7,450	\$7,450	\$0	\$0	\$0	\$0				
Description:												
1. The 305 Radio Tes system based on an opgeneral purpose test edequipment consists of (TPSs). This procurer (AWACS) Line Replainterchangeability of twell as reducing logist E-3B/C aircraft. The tested. Programming will also facilitate the procures test capability.  2. Failure to procure t state-of-the-art and wi capable rates.	pen architecture of quipment (GPTF), but is not limited ment provides a sceable Units (LI) ester hardware be tics support requestics support requestion of is done through reduction of test y not available be the 305 Radio Te	of commercial equal to through its builted to, controller, of standard commercial equal to the program code and graphical "spreasing time and main because of obsolet est Station Test Prolete test equipments	dipment in a ration virtual parantroller operated test system teable Units (so reducing worst. The TPSsoldsheet" environtenance costs and unsupported tests were and unsupported to gram Sets were and sets were and unsupported to gram Sets were a	nodular design unels. The interfarational software in for a minimum SRUs). It replaces the stoppages and are used to diagrest Adapter (ITA) conment, providing while increasing ortable equipmentiall greatly impairated.	ased to support E-3 ace provides complete, power source, RF nof 78 E-3 Airbornes a minimum of 1 deliminating the phose and troubleshor, and cables used tong low learning curg the mission capant.  The E-3B/C aircra occure these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these TPSs were supported to the these t	B/C aircraft. ex testing ca, Analog/Digate Warning & 4 different to coliferation of the connect the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and high tole (MC) rate of the exest and the exes	It can also be upabilities. The gital and Test Proceedings of Control Systems, allowing of Support equipman LRUs and SR of ITA and the item of throughput. The FY98-01 functions adiness. The Test The Stationary of the Italian throughput.	test rogram Sets m ment as Us in the em being hese TPSs adding				
		<b>P-1 ITEM NO</b> : 66	PAGE NO:		Page	1 of 1						

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	IDENT		FY1998			FY1999		_	FY2000		FY2001		
COST ELEMENTS	CODE	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
305 RADIO TEST STATION (RF BRAT)	А	4	1,112,900	4,452	·								
SOFTWARE DEVELOPMENT LICENSE	ï			200									
TPS SOFTWARE DEVELOPMENT (1)				2,150									
305 TEST PROGRAM SETS (2)	Α	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:**

- TPS software will be developed organically at Warner Robins Air Logistics Center, GA.
   FY99-01 unit costs are engineering estimates based on the complexity of the TPS being procured.

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BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FE	BRUAF	RY 199	9
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	IPMEN	IT.		P-1 NOMENCLA 305 RADIO TEST S					
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
the Air Force due to the complexity	or the	test progr	am sets and software.	Competition may cu	iltivate additional sources of	TPS developers	;.		
	P-1	<b>ITEM N</b> 66	0:	PAGE NO:			Page	1 of	1

BUDGET ITEM JUS	STIFICATION (	EXHIBIT P-40)				DATE:	FEBRUARY 199	9			
APPROP CODE/BA	P-1 NON	P-1 NOMENCLATURE:									
APAF/COMMON SUPPORT EQUIPMENT					405 TRANSPORTABLE RADIO TEST STATION						
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2003 FY2004				
QUANTITY											
COST (in Thousands)	\$15,256	\$8,750	\$7,450	\$7,450	\$0	\$0	\$0	\$0			
Description:					771	Ψ	ΨΟΙ	φυ			
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 unsupportable equipment.											
	<del></del>	<b>P-1 ITEM NO</b> 66	:		PAGE NO:		Page	1 of 2			

			<u> </u>						
BUDGET ITEM JUSTIFICATION (	EXHIBIT P-40)				DATE: FEBRU	ARY 1999			
APPROP CODE/BA:			P-1 NOME	NCLATURE:					
APAF/COMMON SUPPORT EQUIPMENT		405 TRANSPORTABLE RADIO TEST STATION							
Description (cont.):			<u></u>						
2. Failure to procure the 405 Transporreadiness. The TPSs are state-of-the-a TPSs will result in a decrease in mission	art and will elimina	tation Test Progr te multiple types	ram Sets will s of obsolete to	significantly impai est equipment. Ad	r the E-3B/C aircraditionally, failure t	off mission o procure these			
	<b>P-1 ITEM NO:</b> 66			PAGE NO:		Page 2 of 2			

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)  APPROP CODE/BA:  APAF/COMMON SUPPORT EQUIPMENT									[	DATE:	FEBRU.	<b>ARY 19</b>	99
						P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION							
WEAPON SYSTEM COST ELEMENTS	IDENT	FY1998			FY1999			FY2000			FY2001		
		QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
405 TRANSPORTABLE RADIO TEST STATION (RF T- BRAT)	А	9	1,222,900	11.006									0001
DATA				1.000			700			700			70
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	5,25
INTERIM CONTRACTOR SUPPORT (ICS)							250			750			75
INDEPENDENT VALIDATION & VERIFICATION (IV & V)				450			500			500			50
PROGRAM SUPPORT							-			250			25
TEST/ENGR SUPPORT				300			300						
TOTALS:				15,256			8,750			7,450			7,450
REMARKS: 1. FY99-01 unit costs are engineering	ng estimate:	s based o	on the com	nplexity of	the TPSs	s being pro	ocured.						
	<b>P-1 ITEM</b> 66	NO:			PAG	E NO:			75	-	Pag	ge 1 of 1	

BUDGET PROCUREMENT I	HISTO	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE:	FEB	RUAF		9
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	IPMEN	IT			TURE: BLE RADIO TEST STATION	N				
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	<b>I</b>	ATE	DATE FIRST DEL.		DATE REV. AVAIL
405 RADIO TEST STATION/FY98	9	1222900	AFMC/SA-ALC	SS/FFP ,	ATTI, INC, HAUPPAUGE, NY	MA	AR 98 .	JUL 98		
405 R.F. T-BRAT TPS/FY98	10	250,000	AFMC/SA-ALC	SS/FFP ,	ATTI, INC, HAUPPAUGE NY	JU	JN 98 .	JUN 99		
405 R.F. T-BRAT TPS/FY99	28	250,000	AFMC/SA-ALC	C/FFP	UNKNOWN	AF	PR 99	APR 00	Υ	
405 R.F. T-BRAT TPS/FY00	15	350,000	AFMC/SA-ALC	OPT/FFP (	UNKNOWN	AF	PR 00 A	APR 01	Ν	OCT 99
405 R.F. T-BRAT TPS/FY01	15	350,000	AFMC/SA-ALC	OPT/FFP I	UNKNOWN	AF	PR 01	APR 02	N	OCT 00

			ONCLA	SOIFIEL	<u> </u>						
BUDGET ITEM JUS	TIFICATION (I	EXHIBIT P-40)				DATE: FEB	RUARY 199	9			
APPROP CODE/BA	:			P-1 NOM	ENCLATURE:			-			
APAF/COMMON SUPPO	ORT EQUIPMENT			ELECTRON	NIC SYSTEM TEST S	STATION (ESTS)					
	FY1998	FY1999	FY2000	FY2001	FY2001 FY2002 FY2003 FY2004 FY2						
QUANTITY			5								
COST (in Thousands)	\$1,725	\$19,900	\$20,025	\$22,525	\$11,525	\$0	\$0	\$0			
Description:								Ψ0			
1. The Electronic Sys controlled memory un television monitor, rat of F-15 Line Replacea discreet evaluation of Sets (TPSs) consist of LRUs. The ESTS is a (AIS). This tester will 1970's contains many (TPSs), and interim control of turn decreases LRU the is now technologically	it, a signal generative turn table, cabble Units (LRUsthe overall performance) software, interfastand alone system have increased electronic comportractor support the ESTS will recepair. The older roughput. Also,	rator converter, con les, air and nitroge s). It will also pro- ormance of the systa ace test adapters, do tem requiring one pareliability and mai conents which are not concert (ICS). The follow sult in the F-15's in test stations are un Air Combat Com ESTS will signific	nverter interface n cylinders. To vide ambient and em and subsysto ocumentation pallet to deploy ntainability and to longer availate ving aircraft are nability to sustanable to accommand's require	te, air supply fath his tester will pair cooling to the stems for the and cables required in lieu of 22 part of will reduce to able. FY00/01 to supported by ain sortie operation of a truly ment for a truly	en, printer, pneumate perform parametric e Unit Under Test (tenna, fire control active as an interface pallets required by the est times. The exist provides funding for this test station: For tions due to the back g workloads and are mobile tester cannobility.	ic generator and testing for troub UUT) and will and telemetry symbol between the telemetry Avious F-15 AIS dor new test statically TF-15 A/B/C/Eklog of aircraft e subject to main	controller le shooting examine and stems. Tester and the nics Intermetveloped in ons, test pro/E.	assembly, and repair d provide t Program aircraft ediate Shop the early gram sets			
		<b>P-1 ITEM NO:</b> 66			PAGE NO:		Page	1 of 1			

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)									Г	DATE:	FEBRU	ARY 19	99	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUIPM	MENT				P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ESTS)									
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000			FY2001		
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST		UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	
ELECTRONIC SYSTEM TEST STATION (ESTS)	А							5						
INTERFACE TEST ADAPTERS (ITA)	А							5	500.000	2,500				
INTERIM CONTRACTOR SUPPORT (ICS) (1	)			1.72	25		15,920			11,525			11,525	
TEST PROGRAM SET (TPS) PRODUCTION UPDATE							125						11,020	
GFE REPAIR/REFURBISH						1	600			1				
ENG CHG ORDER (ECO)						,	3,255			1	<del></del>			
RADIO LINE REPLACEABLE UNITS (LRU) TPS (2)	А										30	366,666	11,000	
TOTALS:				1,72	25		19,900			20,025			22,525	
REMARKS:  1. Interim Contractor Support (ICS) p to allow for quick turnaround of parts,  2. Unit cost for Radio LRU TPS bases	tech order	rs, aetici	iency report	lusive mats, and co	aintenance onfiguratio	support to n manage	o include perment.	ourchase	of a mate	rial augme	entation p	ackage		
	<b>P-1 ITEM</b> 66	NO:			PAC	GE NO:					Paç	ge 1 of 1		

COST COST METHOD & AND LOCATION DATE FIRST DEL. NOW  ELECTRONIC SYSTEM TEST STATION (ESTS)  5 1200000 AFMC/ASC OPT/FP GRUMMAN CORP, ROLLING MEADOWS, NY  REMARKS:	BUDGET PROCUREMENT H	HISTORY PLANNING (EXHI	IT P- 5A)	DATE: FEBRUARY 1999
ELECTRONIC SYSTEM TEST STATION (ESTS)  5 1200000 AFMC/ASC  METHOD & CONTRACTOR AND LOCATION  METHOD & CONTRACTOR AND LOCATION  FIRST DEL. NOW  GRUMMAN CORP, ROLLING MEADOWS, NY  REMARKS:		PMENT	P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ES	STS)
ELECTRONIC SYSTEM TEST STATION (ESTS)  5 1200000 AFMC/ASC OPT/FP GRUMMAN CORP, ROLLING MEADOWS, NY  REMARKS:	ITEM / FISCAL YEAR Q		METHOD & CONTRACTOR	DATE   FIRST   AVAIL   REV.
MEADOWS, NY	ELECTRONIC SYSTEM TEST STATION (ESTS)			7,000
	FY00	5 1200000 AFMC/ASC		JAN 00 FEB 00 Y
P-1 ITEM NO: 66 PAGE NO: Page 1 of				

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BUDGET ITEM JUST	TIFICATION (E	EXHIBIT P-40)				DATE:	FEBRUARY 199	9
APPROP CODE/BA	:			P-1 NOM	ENCLATURE	:		
APAF/COMMON SUPPO	ORT EQUIPMENT			NEW GENE	ERATION HEATE	ER		
	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
Description:	•		<del>.</del>		-			
aircraft maintenance. FY00/01 continues a t costly to maintain. Ac by this heater: C-130,  2. Failure to procure t expenditures. Heaters perform flightline mai	otal replacement dditionally, numa KC-135, C-5, C this New General currently in use	t program which the erous replacement C-141, E-3, F-15, tion Heater will result have well exceed	t parts are no frequency from F-16, F-117, A result in the collect their estimates	9 to replace curr longer available A-10, B-1, B-52, ntinued costly re lated service life	ent systems that due to obsolesc and helicopters epair of old, unr	t have become in the follows.  The follows.  eliable units, ar	increasingly dif owing systems a nd high man-ho	ficult and are supported ur
		<b>P-1 ITEM NO</b> 66	:		PAGE NO	):	Page	e 1 of 1

WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)									D	ATE:	FEBRU	ARY 199	99	
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	JIPMENT				P-1 NOMENCLATURE: NEW GENERATION HEATER									
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000			FY2001		
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST		UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
FIRST ARTICLES	А				8	350.000	2,800							
DATA							700							
NEW GENERATION HEATER	А							200	10.685	2,137	1,200	11,219	13,463	
										_				
									-					
TOTALS:							3,500			2,137			13,463	
	<b>P-1 ITEM</b> 66	NO:			PAG	SE NO:				<del></del>	Pag	ge 1 of 1		

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FE	BRUAF	 २४ 199	9			
APPROP CODE/BA: APAF/COMMON SUPPORT EQI	UIPMEN	1T		P-1 NOMENCLATURE: NEW GENERATION HEATER								
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE		SPECS AVAIL NOW	DATE REV. AVAIL			
NEW GENERATION HEATER												
FY99 FIRST ARTICLES	8	350,000	AFMC/WR-ALC	C/FP L	JNKNOWN	APR 99	NOV 99	Y				
FY00	200	10,685	AFMC/WR-ALC	OPT/FP L	JNKNOWN	JUL 00	OCT 00	Y				
FY01	1200	11,219	AFMC/WR-ALC	OPT/FP L	JNKNOWN	NOV 00	FEB 01	Y				
The New Generation Heater acquisubsequent years have been realiproduction of the heaters. Unit co	gned to	reflect the	e current plan. FY99 fu	unds will procure eight	t first articles for testing and	d FY00 will begin	full					
	P-1	<b>ITEM N</b> 66	O:	PAGE NO:			Page	e 1 of	1			

			UNCL	<u> Aggirie</u>	<u> </u>			
BUDGET ITEM JU	JSTIFICATION (E	EXHIBIT P-40	)			DATE:	FEBRUARY 199	9
APPROP CODE/E		P-1 NOMENCLATURE:  SELF-GENERATING NITROGEN SERVICING CART (SGNS					IG CART (SGNS	C)
	FY1998	FY1999	FY2000	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

\$12,171

\$12,171

\$12,137

\$0

\$0

\$5,163

#### **Description:**

- 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.
- 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.

<b>P-1 ITEM NO:</b> 66	PAGE NO:	Page 1 of 1

			_	<del></del>				W-544-07	<del></del>				
WEAPON SYSTEM COST A	NALYSIS	(EXHII	BIT P- 5)							ATE:	FEBRU.	ARY 19	99
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	PMENT				P-1 NOM SELF-GEN	IENCLA NERATINO	TURE: G NITROC	GEN SER	VICING (	CART (SG	iNSC)		
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000		FY2001		
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST		UNIT	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT	TOTAL COST
FIRST ARTICLES	А				2	244,304	489						
TECHNICAL MANUALS							60			, <u>-</u>			
TRAINING (TYPE I)							46						
DATA							40						-
SGNSC	А							133	38,820	5,163	360	33,808	<u>12,171</u>
TOTALS:							635			5,163			12,171
	<b>P-1 ITEM</b> 66	NO:			PAG	E NO:	T				Pag	je 1 of 1	

BUDGET PROCUREMEN	T HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE	E: FE	BRUAF	RY 199	9			
APPROP CODE/BA: APAF/COMMON SUPPORT EQ	UIPMEN	NT		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 FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL			
SGNSC													
FY99 FIRST ARTICLE	2	244,304	AFMC/SA-ALC	C/FFP	PACIFIC CONSOLIDATED INDUS SANTA ANA, CA	STRIES,	OCT 98	MAR 00					
FY00	133	38,820	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUS SANTA ANA, CA	STRIES,	APR 00	NOV 00	Y				
FY01	360	33,808	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUS	STRIES,	DEC 00	JUL 01	Y				
contractor protests. GAO decisio						g							
	P-1	<b>ITEM N</b> 66	O:	PAGE NO	:			Page	e 1 of	1			

			DINCLA	<u> 1001   E</u>	ט			
BUDGET ITEM JUS	TIFICATION (	EXHIBIT P-40)				DATE:	EBRUARY 1999	
APPROP CODE/BA  APAF/COMMON SUPPO					MENCLATURE:		ICT-20	
	FY1998	FY1999	EV2000					
QUANTITY			FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
COST (in Thousands)	\$0	\$949	\$0	\$12,243	\$16,649	\$16,803	\$0	\$0
<ol> <li>The Hydraulic Conpump mounting pad, a pressure system hydra console containing concomponents prior to in will have exceeded the The following aircraft</li> <li>Failure to procure the expenditures. Current aircraft in the inventor Lack of proper hydrau aircraft and aircrew live</li> </ol>	and skid that con- ulic pump with on atrols, indicators estallation, presser service life by are supported by this Hydraulic Co- test stands have by have hydraulic lic testing could	tains a variable selectric drive mo as, and ports used ure check locally five to 10 years y this test stand:  omponent Test Se many parts that to pressure require	peed direct cur- tor, volume con- during test stan manufactured, and most are la B-1B, C-130, cut tand will result are no longer a	rent electric dri atrol, high press d operation. Thoses, and test becoming incre C-135, C-141B in the continue vailable throug	we motor with as sure filter, and rip he stand is used to repaired aircraft easingly difficult as, F-15A, F-16, Keed costly repair on the supply system of the current stands	sociated parts. ople filter. The o check service hydraulic compand costly to m C-135, and T-3 fold, worn out em due to obso and may well e	It also contains second section is ability of aircrationnents. Currentaintain.  8.  units and high not be a lescence. The not accept these limits and the second se	a high is a control ft t test stands  nanhour newer its soon.
		P-1 ITEM NO	:		PAGE NO:		Page	1 of 1

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				IACI	LASS		J						
WEAPON SYSTEM COST	ANALYSIS	(EXHIE	BIT P- 5)							DATE:	FEBRU	ARY 19	99
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	JIPMENT				P-1 NON HYDRAUL	IENCLA IC COMP	TURE:	TEST ST	AND, HC	CT-20			
WEAPON SYSTEM	IDENT		FY1998			FY1999			FY2000			FY2001	
COST ELEMENTS	CODE	QTY	UNIT	TOTAL		UNIT COST	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL COST
HYD COMP TEST STAND HCT-20	А				2	273,915	548				63		12,24
DATA							351						
TRAINING							50						
						<u>.</u>							
TOTALS:							949				]		12,243
<del></del>	P-1 ITEM	NO.		<del></del> .	DAG	E NO:					Τ_	<del>-</del>	
	66				FAG							ge 1 of 1	
			F 1	NICI	A C C		•				180		

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FE	BRUAI	RY 199	9			
APPROP CODE/BA: APAF/COMMON SUPPORT EQU	IIPMEN	IT			ATURE: PONENT TEST STAND, HC	ST-20						
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE		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	Υ				
								_				
REMARKS:												
									:			
	P-1	ITEM N	0:	PAGE NO:			Page	e 1 of	1			

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)  DATE: FEB								99
APPROP CODE/BA		Г			ENCLATURE: AIRCRAFT PORTA	BLE REPROG	RAMMING EQU	JIPMENT
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	0	0	270	270	270	270	270	
COST (in Thousands)	\$0	\$500	\$8,096	\$5,326	270 \$5,900	\$6,345	\$6,680	\$6,950
1. The Common Airc Digital Computer Sys electronic warfare poor information systems. A-10, B-52, C-5, C-17  2 The current PLVs a will prevent the loading could result in the loss.	tem (DCS). The ds, perform aircr FY00/01 funding, C-130, F-15, I and DCSs are being of classified r	e CAPRE will be useful diagnostic troused aft diagnostic troused procures replaced F-16, H-60, and Macoming unsupportainssion data onto the life. Maintenance	used on the flighteshooting, as coment equipm H-53.  The due to obthe he aircraft. We have to be the company to	ghtline to reprogend support autorent. The following solescence of columns:	ram software in a mated technical or ng weapon system mponents and tec	ircraft compurders and related	ters, update the ted maintenance ted by this eque lure to procure	the CAPPE
		<b>P-1 ITEM NO:</b> 66			PAGE NO:		Page	1 of 1

WEAPON SYSTEM COST A	NALYSIS	(EXHIE	BIT P- 5)							DATE:	FEBRU	ARY 19	 99	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	PMENT				P-1 NOMENCLATURE: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT									
WEAPON SYSTEM	IDENT		FY1998		FY1999			FY2000				FY2001		
COST ELEMENTS	CODE	QTY	UNIT	TOTAL		UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	
CAPRE	А							270	16.000	4,320	270	16304	4,402	
BID SAMPLE TESTING							500	<u></u>	10.000	1,020		10304	4,402	
TECH MANUALS								_		95			23	
DATA								,		50				
INTERIM CONTRACTOR SUPPORT (ICS)										595			595	
PROGRAM SUPPORT										225			225	
TEST PROGRAM SET (TPS)								270	3,000	810				
TPS DEVELOPMENT								210	0,000	1,620				
TEST/ENGR SUPPORT										300				
LICENSING			_							81			0.4	
TOTALS:							500	-		8,096			5,326	
REMARKS:														
	<b>P-1 ITEM</b> 66	NO:			PAC	SE NO:					Pag	e 1 of 1		

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FE	BRUAI		9		
APPROP CODE/BA: APAF/COMMON SUPPORT EQ	JIPMEN	NT		P-1 NOMENCLA COMMON AIRCRA	ATURE: AFT PORTABLE REPROGRA	GRAMMING 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 engineering estimate (based on ca	arres	unit price	ve contract for bid same); the FY01 unit cost is	ple testing schedulers an engineering esti	d for award in Aug 1999. The	e FY00 unit cos	t is an				
	P-1	1 <b>TEM N</b> (	D:	PAGE NO:			Page	1 of	1		

			OITOL	TOOII IL				
BUDGET ITEM JUS	TIFICATION (	EXHIBIT P-40)				DATE:	FEBRUARY 1999	)
APPROP CODE/BA	:			P-1 NON	IENCLATURE:			
APAF/COMMON SUPPO	ORT EQUIPMENT	Г		JOINT SEF	RVICE ELECTRONIC	COMBAT SY	/STEMS TESTER	२
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
QUANTITY	. 0	0	33	71	0	0		
COST (in Thousands)	\$0	\$0	\$7,472	\$18,285	\$33,788	\$0	\$0	\$0
Description:					,1,,	<u> </u>	ΨΟΙ	φυ
JSECST will replace the systems testing capabite Systems Command Marequirements. Five proint the Air Force Description of the Air Force Description.  2. The JSECST is a total flightline electronic control of the system.	lity. The requir ission Need Stat ototypes in engi- iptive Summary op priority procu	ement was docume tement for a Flight neering manufactur for PE64270F. To rement item for th	ented under a a line Electronic ring developn he following A e CAF. Failun	January 1993 C c Combat Syste nent (EMD) are Air Force aircra	combat Air Force (Coms Tester. FY00/0 being procured with the are supported by	CAF) Joint Color funds will the RDT&E for this tester:	ombat Air Force procure initial A unds and are doo A-10, C-130, F-	e-Naval Air Air Force cumented 15, and
		<b>P-1 ITEM NO:</b> 66			PAGE NO:		Page	1 of 1

WEAPON SYSTEM COST A	NALYSIS	(EXHIE	BIT P- 5)						[	DATE:	FEBRU.	ARY 19	99	
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	PMENT				P-1 NOMENCLATURE: JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER									
WEAPON SYSTEM	IDENT		FY1998		FY1999			FY2000						
COST ELEMENTS	CODE	QTY	UNIT	TOTAL		COST	TOTAL COST	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	
JSECST	А							33		7,145	71	182,352	12,947	
TEST PROGRAM SETS (TPS)	A											102,002	4,659	
ENG CHANGE ORDERS (ECO)										327			679	
					_			·						
	-	_												
											<del></del> ·			
TOTALS:					<del>-   -</del>					7,472	<u>.</u>		18,285	
REMARKS: The Air Force and the Navy are but FY01 TPS funding represents the t	ying the same otal estimated	e core JS d cost fo	SECST Te	st Sets; air Force	however, e	each servic and syster	e has spe	ecific Tes se platfor	t Program		Ss).		10,200	
	<b>P-1 ITEM</b> 66	NO:			PAG	SE NO:			<del></del>		Pag	e 1 of 1		

BUDGET PROCUREMENT	HIST	ORY PL	ANNING (EXHIBI	T P- 5A)		DATE: FE	BRUA	RY 199	9	
APPROP CODE/BA: APAF/COMMON SUPPORT EQ	UIPMEN	١T			ATURE: LECTRONIC COMBAT SYS	STEMS TESTER				
ITEM / FISCAL YEAR	QTY.	UNIT	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE		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		
					_					
First article testing is being accom Price Commitment Curve (PPCC) Critical Design Review. A product	establis	nea aurin	g award of the R&D co	ontract the Governm	ent will award a sole source.	production cont	ract afte	r		
	P-1	<b>ITEM N</b> (66	0:	PAGE NO:			Page	1 of	1	

TIFICATION (E	EXHIBIT P-40)				DATE:	FEBRUARY 1999	)			
			P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000							
FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005			
			,							
\$48,386	\$66,954	\$85,948	\$61,610	\$39,397	\$45,446	\$49,200	\$54,750			
raft. These items craft maintenance t over the life of	s, common (used the and servicing real a weapon system ent value of less to	on more than equirements.	one weapon sys These replacem	etem) and peculiar ent requirements ent requirements enter ted for procureme	(unique to on ensure continu	e weapon systemation of service are identified of	n), are used able, on the			
	<b>P-1 ITEM NO:</b> 66		<u> </u>	PAGE NO:		Page	1 of 1			
	FY1998  \$48,386  an \$5 Million" I raft. These item reraft maintenance to over the life of	FY1998 FY1999  \$48,386 \$66,954  han \$5 Million" line procures replarent. These items, common (used craft maintenance and servicing replarent over the life of a weapon system annual procurement value of less the common of the c	FY1998 FY1999 FY2000  \$48,386 \$66,954 \$85,948  These items, common (used on more than or craft maintenance and servicing requirements. To over the life of a weapon system.  The system of less than \$5,000,000 for the life of a weapon system.  The system of less than \$5,000,000 for the life of a weapon system.	P-1 NON ITEMS LES  FY1998 FY1999 FY2000 FY2001  \$48,386 \$66,954 \$85,948 \$61,610  The procures replacement organizational and in raft. These items, common (used on more than one weapon system are trained and servicing requirements. These replacement over the life of a weapon system.  In the procurement value of less than \$5,000,000. Items requested the procurement value of less than \$5,000,000. Items requested the procurement value of less than \$5,000,000.	P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000  FY1998 FY1999 FY2000 FY2001 FY2002  \$48,386 \$66,954 \$85,948 \$61,610 \$39,397  Than \$5 Million" line procures replacement organizational and intermediate (common raft. These items, common (used on more than one weapon system) and peculiar craft maintenance and servicing requirements. These replacement requirements of tover the life of a weapon system.  Innual procurement value of less than \$5,000,000. Items requested for procurement value of less than \$5,000,000. Items requested for procurement value of less than \$5,000,000. Items requested for procurement value of less than \$5,000,000. Items requested for procurement value of less than \$5,000,000.	P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000  FY1998 FY1999 FY2000 FY2001 FY2002 FY2003  \$48,396 \$66,954 \$85,948 \$61,610 \$39,397 \$45,446  These items, common (used on more than one weapon system) and peculiar (unique to one craft maintenance and servicing requirements. These replacement requirements ensure continuate over the life of a weapon system.  Innual procurement value of less than \$5,000,000. Items requested for procurement in FY00-01 in F	P-1 NOMENCLATURE:  ITEMS LESS THAN \$5,000,000  FY1998 FY1999 FY2000 FY2001 FY2002 FY2003 FY2004  \$48,386 \$66,954 \$85,948 \$61,610 \$39,397 \$45,446 \$49,200  The procures replacement organizational and intermediate (common and peculiar) support equivariant. These items, common (used on more than one weapon system) and peculiar (unique to one weapon system) to ver the life of a weapon system.  These replacement requirements ensure continuation of service to over the life of a weapon system.  Innual procurement value of less than \$5,000,000. Items requested for procurement in FY00-01 are identified or procurement.  P-1 ITEM NO: PAGE NO:			

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

				FY	2000	FY2001	
PROCUREMENT ITEMS			NSN	QTY.	COST	QTY.	COST
ITEMS \$3M TO \$5M							
OPTICAL TEST BENCH		NSL		9	\$3,700		
GENERATOR TEST STAND		4920013954	067	28	\$3,613		
MJ-1B LIFT TRUCK		1730011237	269	112	\$3,474		
EDDY CURRENT FLAW DETECTOR		4920004631	574	538	\$3,211		
C-5 ISOCHRONIC MAINTENANCE PLATE	ORM	1730001573	976	1	\$1,482	2	\$3,016
C-5 EMPENNAGE STAND		1730001583	039	1:	\$1,521	2	\$3,042
UMS, DIESEL, SPLIT DECK MAINT PLATI	FORM	1730013704	268	1	\$175	38	\$4,508
MHU-83D/E LIFT TRUCK		1730014462	422			64	\$4,561
ENVIRONMENTAL CONTROL SYSTEM T	EST SET	4920014242	115FX			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
	<b>P-1 ITEM NO:</b> 66		PAGE NO:			Page	

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

		FY	/2000	F	Y2001
PROCUREMENT ITEMS	NSN	QTY.	COST	QTY.	COST
FSC 3950			\$72		\$8
FSC 4310			\$369		\$30
FSC 4320			\$98		\$33
FSC 4510			\$133		\$26
FSC 4920			\$20,241		\$14,97
FSC 4933			\$41		\$13
FSC 5110			\$95		\$29
FSC 5120			\$8,752		\$3,83
FSC 5130			\$91		\$3
FSC 5133			\$9		
FSC 5180			\$532		\$25
FSC 5210			\$101		\$24
FSC 5220			\$680		\$15
FSC 5280			\$32		\$13
FSC 5935			\$10		\$13
FSC 6110			\$4	<u> </u>	\$2
FSC 6130			\$17		
FSC 6150			\$14		\$
FSC 6625				<u> </u>	\$
P-1 ITEM NO:	PAGE NO:		\$45		\$17
66	PAGE NO:			Pag	ge 2 of 3

BUDGET ITEM JUSTIFICAT	ION FOR AGGI	REGATED I	TEMS (E	XHIBIT P- 40	A-IL)		DATE: FEBRUARY 1999			
APPROP CODE/BA: APAF/COMMON SUPPORT EQUI	PMENT		P-1 ITEM	NOMENCLA S LESS THAN \$	TURE: 5,000,000					
					FY	′2000		F	Y2001	
PROCUREMENT ITEMS				NSN	QTY.	COST	-	QTY.	COST	
FSC 6650							\$7,528			
FSC 6685							\$1,685		\$251	
FSC 6695							\$99			
TOTALS:						\$	85,948		\$61,610	
	<b>P-1 ITEM NO:</b> 66			PAGE NO:				Pag	e 3 of 3	

BUDGET ITEM JUSTIFICATION SHEET		Date:
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOM	February 1999
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.

COST ANALYSIS EXHIBIT P-5	B. Popular Name	C. Manufact	urer			D. Date: Fel	1999
EXHIBIT F-3	A-10	Symylopica	Panadana CA				
Appropriation (Treasury Code)/CC/BA			Pasadena CA 798				
the speciment (treating code), collection	DOMINE CONTROL MUNIDER	Unit			/99		<b>/</b> 00
Aircraft Procurement/AF/BA01 Comb	at Aircra	Cost	Total Cost	Unit Cost	Total	Unit	Total
QUANTITY		0031	0	COST	Cost	Cost	Cost
					0		0
AIRFRAME/CFE		İ					
ENGINE/ACCESSORIES							
AVIONICS: CFE/GFE							
ARMAMENT							
OTHER GFE							
NON-RECURRING COSTS							
Subtotal FLYAWAY COSTS			0.0		0.0		0.0
AIRFRAME PGSE							į
ENGINE PGSE			1				
AVIONICS PGSE							
PECULIAR TRAINING EQUIPMENT			2.6		11.4		8.3
PUBLICATIONS/TECH DATA			,		, , , , ,		0.3
ECO						ļ	
NON-RECURRING COSTS			1				
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	İ	11.4		
20 LESS: Prior Yr Adv. Proc			0.0		0.0		8.3
21 NET P-1 COST			2.6	ŀ	11.4		0.0 8.3

JUSTIFICAT	ION (\$M)				Date:	Feb 99		
	Weapon Sys A-10	stem:	Equipment Unit Trainin	Nomenclatu g Device (U	re: TD)	Program El 27131F	ement:	
FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	Total
1	6	5						5
2.6	11.4	8.3						22
	FY 98	A-10  FY 98 FY 99  1 6	Weapon System: A-10  FY 98 FY 99 FY 00  1 6 5	Weapon System: Equipment Unit Trainin  FY 98 FY 99 FY 00 FY 01  1 6 5	Weapon System: A-10  Equipment Nomenclatu Unit Training Device (U	Weapon System: A-10  Equipment Nomenclature: Unit Training Device (UTD)  FY 98  FY 99  FY 00  FY 01  FY 02  FY 03	Weapon System: A-10  Equipment Nomenclature: Unit Training Device (UTD)  FY 98  FY 99  FY 00  FY 01  FY 02  FY 03  FY 04	Weapon System: A-10  Equipment Nomenclature: Unit Training Device (UTD)  FY 98  FY 99  FY 00  FY 01  FY 02  FY 03  FY 04  FY 05

#### 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.

							DATE:	Feb-99		
FY00 PB	BUDGET IT	TEM JUS	TIFICATION	ON SHEE	Т					
APPROPRIATION/BUDGE	T ACTIVITY						P-1 ITEM NO	OMENCLATU	IRE	
AIRCRAFT PROCUREME	ENT/BA01, COME	BAT AIRCRAI	FT (BA07 FO	R FY99/OUT	)		B-2			
	FY98/PRIOR	FY99	FY00	FY01	FY02	FY03	FY04	FY05	тс	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

**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.

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.

**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).

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-1 SHOPPING LIST	PAGE NO.	Exhibit P-40
ITEM NO.		Page 1 of 1

WEAPON SYSTEM COST	A. Appropria	tion/Budget	B. Weapon Mod		ılar Namo	C. Manufacture	r Name	D. Date	
		_	b. weapon wo	del/Series/ Fopt	uai ivaine	Plant City/Sta		D. Date	
ANALYSIS EXHIBIT (P-5)	Activity Title		D 0 A 4		S I			F-1-00	
FY00 PB	Aircraft Pro		B-2 Advanced	i recnnology b	somber	Northrop Grumma		Feb-99	
	Combat Airc					Pico Rivera, C			
Weapon System Cost Elements	ldent.	FY98	QTY 0	FY99	Qty 0	FY00	Qty 0	FY01	Qty 0
	Code	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost	Unit Cost	Tot. Cost
Airframes/CFE	Α	NA	8.0	NA	3.3	NA	0.0	NA	0.0
A/V 1 UPGRADE		NA	0.0	NA	0.0	NA	0.0	NA NA	0.0
UPGRADES**			9.3		50.0	NA NA	0.0		
ENGINE/ACCESSORIES	A	NA NA	0.0	NA	0.0	NA	0.0	NA	0.0
(Eng Model) F118-GE-100		""				1			
AVIONICS									ĺ
A. CFE		NA	0.0	NA	0.0	NA NA	0.0	NA	0.0
	A				1				
WEAPON DELIVERY SYSTEM	A	NA	0.0	NA	0.0	1	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 NA	0.0
NON-RECURRING COSTS									
		N/A	0.0	NA NA		NA NA	0.0	NA NA	١ ,,
(Tooling)		NA NA	I		0.0			II.	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 NA	6.6	NA NA	2.3	NA NA	6.0
ENGINE PGSE	A	NA NA	0.0	NA NA	0.0	NA NA	0.0	NA NA	0.0
	I		1			1	1	NA NA	1
PECULIAR TRAINING EQUIPMENT	A	NA NA	0.1	NA	3.7	NA NA	4.0		0.0
PUBLICATIONS/TECH. DATA	A	NA 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 NA	74.9	NA NA	77.6	NA NA	13.3	NA NA	5.3
PROG. MGMT. ADM. RQMTS (PMAR)		NA NA	5.6	NA	11.2	NA NA	9.4	NA	3.7
OTHER	A	NA	6.7	NA NA	17.1	NA	6.1	NA	0.0
Subtotal SUPPORT COST	ŀ	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. Other Non P-1 Weapon System Costs			0.0		0.0		0.0		0.0
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		20.1		32.1
Indust Base Preserv (BP 14BCAP)	A	NA NA	0.0	NA	0.0		0.0	1	0.0
Facilities (BP14; PE 78011F))	A	NA NA	0.0	NA	0.0		0.0		0.0
TOTAL		NA NA	238.8	NA NA	309.6	NA	187.8	NA NA	97.3
- IOIAL		INA	P-1 SHOPPING			IVA	107.0	1 11/4	Exhibit P-5
				LIOI	PAGE NO.				
			ITEM NO.			1			Page 1 of 1

FY00 PB	Acquisition	Logistics	and Operati	ons & Suppo	rt Funding fo	r Selected W	eapon System	S			
Weapon System: B-2			Date:	Feb-99		PE 11127F(	64240F				
	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	тс	Total
A. General Program Data Procurement Qty Cum Oper Invent (w/ EMD Refurb) No. of Operating Units OPTEMPO	13	16	17	21	21	21	21	21	21	0	21
(Flying Hrs or Miles per month) Readiness Objective Intermediate Level Stand-Up date Depot Level Stand-Up Date	6716.7	2918.0	4410.0	5891.0	5962.0	5961.0	5961.0	5961.0	5961.0	119220.0	168961.7
B. Acquisition Logistics Resources Initial Spares MRSP Field Level Common Spt Equip	910.1 73.5	12.7 0.2	55.0 0.3	60.5 0.3	34.9 0.2	25.5 0.2	16.8 0.2	9.9 2.4	9.6 2.5	TBD TBD	1135.0 79.9
Proc Field Level Peculiar Spt Equip	14.6	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	17.1
RDT&E Proc Depot Level Support Equip/Software	539.5 309.7	7.1 1.0	5.0 0.0	4.5 1.0	0.0 5.4	0.0 4.3	0.0 2.1	0.0 2.0	0.0 1.0	0.0 0.0	556.1 326.5
RDT&E Proc - Equip Proc - Software Investment PDM Plan	0.0 321.5 353.5 0.0	0.0 33.7 74.9 0.0	0.0 6.6 77.6 0.0	0.0 1.3 13.3 0.0	0.0 0.6 5.3 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 363.7 524.6 0.0
Technical Data/Manuals RDT&E Proc Training Services and Training Equip	295.4 326.5	1.4 13.4	1.0 5.9	0.9 1.5	0.0 0.1	0.0 3.9	0.0 0.0 0.0	0.0 0.0	0.0 0.0 0.0	0.0	298.7 351.3
RDT&E Proc	886.7 503.6	0.1 0.1	0.0 3.7 P-1 SHOPPING	0.0 4.0	0.0 0.0 PAGE NO.	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	886.8 511.4
			ITEM NO.	LIOI	PAGE NU.						Exhibit P-6 Page 1 of 2

FY00 PB	Acquisition Lo	gistics and	Operations &	Support Fund	ing for Select	ed Weapon Sy	ystems				
Weapon System: B-2			Date:	Feb-99		PE 11127F 64	4240F				
	FY97/P	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	TC	Total
C. Operations and Support  Manpower (Nos.)  Military  Officer*  Enlisted*  Civilian  Cost (\$)  Fuel*  Consumables (3400)  Reparables (3400)  Sustaining Eng Spt (3400)  Interim Contractor Spt (3010)	11.0 64.9 17.9 107.9 185.7	219 1381 31 6.3 4.4 12.4 34.0 10.4	228 1548 31 9.3 12.7 20.1 41.5 45.6	236 1757 31 9.3 16.6 52.4 47.9 47.6	236 1757 31 10.7 17.8 54.6 47.4 9.9	236 1757 31 11.0 18.1 55.1 47.6 3.0	236 1757 31 11.2 18.4 55.7 50.2 3.9	236 1757 31 11.4 18.8 56.8 51.3 0.0	236 1757 31 11.7 19.2 59.8 52.4 0.0	296.3 486.3 1541.8 1328.6 0.0	388.2 677.2 1926.6 1808.8 306.1
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PROCUREMENT YEAR	R V	QTY	TO 1 OCT 1993	AS OF 1 OCT 1993	O C T	N 0 V		J F	:   A	P	lΑ	ļυ		U	E	0 C T	N O V	D E C	J A N	F E B	M A R	A P	M A	IJ	J	A U	SEP	0 0 7	0	DEC	J	FE	M	A	M	Ŋ	Ŋ	A U	S	T E
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MANUFACTURER'S NAME AND L	OCATI	ON			MAX	RC PROCUREMENT LEAD TIME  MAX HD ADMIN TOTAL LEAD TIME MFG AFTER  REMARKS: Delivery dates reflect actual adjusted to reflect DD250 dates. Deliver											al del eries	liverie are fo	es or or ins	contr tall e	actua ngine	al rec es an	luiren d AAI	nents RL's	. Act	ual e Spar	ngine es ar	deliv e not	reries inclu	were	t									
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 ITEM NO.
 EXHIBIT P-21

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UNCLASSIFIED P-1 SHOPPING LIST PAGE 1 OF 1 PAGE ITEM NO. PAGE 1 OF 1 PAGE EXHIBIT P-21

FY00 PB	SIMULATOR	R AND TRA	INING DEVIC	DATE	, ,	Feb-99 11127F & 64240F					
APPROPRIATION/P-1 Line Item: Aircraft Procurement, Combat Aircraft, BA01			Weapon Sys B-2	stem:	Equipment Nomenclature: Aircrew & Maintenance Trainers				PE		
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 beganin May 1993. Aircrew training began in Jan 94. The maintenance trainers consist of the Computer MaintenanceTraining 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 concurrancy changes. Included is Non-recurring effort for engineering changes, testing and hardware/software integration.

P-1 SHOPPING LIST	PAGE NO.	Exhibit P-43
ITEM NO.		Page 1 of 4

FY00 PB	SIMUL	ATOR AND	TRAINING DE	VICE JUSTIFICA	<del></del>	DATE Feb-99									
APPROPRIATION/P- Aircraft Procurement, Combat Aircraft, BA0	em:	Weapon Syst B-2	tem:	IOC Initial RFT: DEC 93		Equipment Nomenclature: Aircrew & Maint Trainers		PE 11127F & 64240F							
TRAINING DEVICE	SITE	DELIVERY DATE	READY FOR TRAINING	AVG STUDENT	PRIOR YEARS		FY98		ı	Y99	FY00		FY01		
BY TYPE	<u> </u>		DATE	THROUGHPUT	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 BLOCK 20 BLOCK 30	"	SEP 93 FEB 96 MAY 97	JAN 94 MAY 96 JUL 97			78.5 139.5 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			

FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)		DATE	Feb-99	
Training Device by Type:		Weapon System:			
AIRCREW TRAINERS		B-2			

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.

	Prior Years F		-Y98 FY		Y99 FY00		FY01		Total Costs			
FINANCIAL PLAN	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 GFE		26.8		0.1		1.7		4.0		0.0	ı	32.6
Other (Fee)		<u>24.6</u> 309.9		<u>0.0</u> 0.1								<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						1			·	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
							:			:		
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		<u> </u>		P-1 SHOPPIN	<u>l</u> G LIST	PAGE NO.	L			ļ	<u> </u>	L Exhibit P-40
				ITEM NO.				1				Page 3 of 4

FY00 PB	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)		DATE	Feb-99
Training Device by Type:		Weapon System:	•	
MAINTENANCE TRAINER	RS	B-2		
Description/Justification:				

Contains all necessary equipment for maintenance training equipment as well as future block updates to maintain concurrency with the air vehicle.

	Prior Years		F	Y98	F	Y99	F	FY00 FY01			Total Costs	
FINANCIAL PLAN	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS Device ECO Nonrecurring	54	142.0		0.0		2.0		0.0		0.0	54	144.0
GFE Other (Fee) Total Hardware Costs		142.0		0.0		2.0		0.0		0.0		144.0
SUPPORT COSTS Special SE ILS Other		30.6										30.6
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
								į				
						PAGE NO.	1		I .	I		Exhibit P-43 Page 4 of 4

**EXHIBIT P-40** 

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.

AIRCRAFT COST ANALYSIS EXHIBIT P-5	A. Appn/Budget Activity Title/No.	B. Popular C-5	Name	C. Manufact	urer	D. Date		
(Dollars in Millions)	Aircraft Proc/BA07			Lockheed		Feb-99		
,	Spt Equip & Fac					FY00 President's Budget		
			QTY		QTY		QTY	
		FY98		FY99		FY00	0	
		Unit	Total	T I	Total	1		
		Cost	Cost	Cost	Cost	Cost	Cost	
AIRFRAME/CFE								
ENGINE/ACCESSORIES								
AVIONICS: CFE/GFE								
ARMAMENT OTHER GFE								
OTTEK 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			0.0		28.4		0.0	
PUBLICATIONS/TECH. DATA								
OTHER (ICS)								
OTHER (HAZMAT)								
OTHER (SUPPORT CONTRACTS)								
OTHER (PLANT SHUTDOWN)				4		4		
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	

#### **EXHIBIT P-43**

#### **UNCLASSIFIED**

OR AND TRAI	NING DEVICE	ION (\$ M)		Date:	Feb-99 FY00 Presid		1	
APPROPRIATION/P-1 Line Item: 3010		Weapon System: C-5		Equipment Nomenclature: Unit Training Device (UTD) Simulator				
FY96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	Total
		0	1	0	0	0		
		0.0	28.4	0.0	0.0	0.0		28.4
		Weapon Sys	FY96 FY 97 FY 98	FY96 FY 97 FY 98 FY 99  0 1	PR AND TRAINING DEVICE JUSTIFICATION (\$ M)  Weapon System: Equipment Nomenclature Unit Training Device (UT Simulator  FY96 FY 97 FY 98 FY 99 FY 00  0 1 0	PR AND TRAINING DEVICE JUSTIFICATION (\$ M)  Weapon System: Equipment Nomenclature: Unit Training Device (UTD) Simulator  FY96 FY 97 FY 98 FY 99 FY 00 FY 01	PR AND TRAINING DEVICE JUSTIFICATION (\$ M)  Weapon System: C-5  Equipment Nomenclature: Unit Training Device (UTD) Simulator  FY96  FY 97  FY 98  FY 99  FY 00  FY 01  FY 02	PR AND TRAINING DEVICE JUSTIFICATION (\$ M)  Weapon System: C-5  Unit Training Device (UTD) Simulator  FY96  FY 97  FY 98  FY 99  FY 00  FY 01  FY 02  FY 03

#### 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.

**EXHIBIT P-43** 

	RIDGET	ITEM JUSTIFICATIO	ON SHEET		DATE						
	555621	TIME DODIEL CONTE	,,, <u>J</u>		Feb-99						
APPROPRIATION/BUD	GET ACTIVITY		P-1 ITEM	NOMENCLATURE							
Aircraft Procurem Equipment & Facil		ircraft Support	F-15E Tac	tical 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			

#### MISSION & DESCRIPTION:

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.

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.

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.

#### FY00 PROGRAM JUSTIFICATION:

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.

Coperative Programs: Not applicable

P-1 Shopping List EXHIBIT P-40

EXHIBIT P-5

AIRCRAFT COST ANALYSIS	A. Aircraft Model		B. Weapon Model/	Series	C. Manufacturer		D. Date		
(Dollars in Millions)	Activity Title	/ No.	Popular Name	8					
	3010/10328A AF/BA07 Aircraft :		F-15E Tactical F:	ighter	BOEING		Feb-99 FY01		
	FY00 President's								
	FY98		FYS	9	FY00				
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
. AIRFRAME/CFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. ENGINE/ACCESSORIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. AVIONICS: CFE/GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. LANTIRN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. TEWS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. NONRECURRING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. ECO (ALLSUPPORT ITEMS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0. 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	
2. ENGINE PGSE/DATA		0.5	1	0.0		0.0		0.0	
3. ALLSUPPORT ITEMS		0.0	1	0.0		0.0		0.0	
4. OTHER (Support Contracts)		4.2	Ì	6.2		6.4		6.5	
5. OTHER (ICS)		1.3		0.9		1.0		1.0	
6. OTHER (Plant Shutdown)		0.0	1	0.0		0.0		0.0	
7. OTHER (HAZMAT)		0.0		0.0		0.0		0.0	
8. POST PRODUCTION SUPPORT		0.0		0.0		0.0		0.0	
9. TOTAL SUPPORT COST		6.0		7.1		7.4		7.5	
0. ADVANCED PROCUREMENT		0.0		0.0		0.0		0.0	
1. GROSS P-1 COST		6.0		7.1		7.4		7.5	
2. LESS: PRIOR YR ADV. PROC.		0.0		0.0		0.0		0.0	
23. NET P-1 COST	1	6.0	1	7.1		7.4		7.5	

P-1 Shopping List Item No. Pag Page No.

EXHIBIT P-5

#### P-40 FOR A NET P-1 COST

#### **BUDGET ITEM JUSTIFICATION SHEET** DATE: Feb-99 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE Aircraft Procurement, AF/BA07, 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 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

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.

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.

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.

Weapon System Cost Analysis EXHIBIT (P-5)			e/No.	B. Weapon Model/	Popular Name	C. Manufacturer N	ame/Location	D. Date	
	Aircraft Procureme	ent, AF/		F-16 Fighting Falce	on	Lockheed-Martin T	actical Sys Co	Feb-99	
(Dollars in Millions)	BA07 Post Product	tion Support				Ft. Worth, TX			
Weapon System Cost Elements	FYS	98	FY	99	FY	00	F	/01	
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(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	l I	
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		
			· · · · ·						
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		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	0.0	30.0	0.0	37.1	0.0	20.1	0.0	23.0	
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	

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.

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

(Total Cost in Millions of Dollars) **ELEMENT OF COST IDENT** FY 1998 FY 1999 FY 2000 FY 2001 CODE QTY TOTAL QTY QTY **TOTAL TOTAL** COST **COST** COST A. EXPANSIONS 1000 B. PACKING, CRATING, & 2000 **HANDLING** C. CAPITAL TYPE 3000 9.279 5.779 7.957 8.224 **REHABILITATION** D. REPLACEMENT & 4000 0.475 0.477 0.456 0.000 **MODERNIZATION** E. INDUSTRIAL BASE 6000 2.788 3.040 3.718 4.816 **ASSESSMENT** F. ENVIRONMENTAL 7000 11.302 9.733 12.663 13.852 **PROTECTION** G. INDUSTRIAL 8000 **MODERNIZATION** H. POLLUTION 9XXX 0.0000.000 0.0000.000 **PREVENTION** TOTALS 23.844 19.029 24.794 26.892

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

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BUDGET ITEM JUS	TIFICATION (E	EXHIBIT P-40)			•	DATE:	FEBRUARY 199	99			
APPROP CODE/BA  APAF/WAR CONSUMAB					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			
Tanks, Racks, Adapter Decoys (FOTD). Thes across multiple weapo						e) Towed Decoret inventory of ustifications.	ys, and Fiber O	otic Towed			
		<b>P-1 ITEM NO:</b> 73			PAGE NO	:	Page	e 1 of 1			

BUDGET ITEM JUSTIFICAT	ION FOR A	GGREGAT	TED ITEMS	(EXHIBIT P	- 40A)		DATE: FE	BRUARY 1	1999			
APPROP CODE/BA: APAF/WAR CONSUMABLES			P	P-1 NOMENCLATURE: WAR CONSUMABLES (OVERVIEW)								
PROCUREMENT ITEMS	ID FY1998 CODE QTY. COST			FY19	999	FY2		FY20	001			
LAU-118	A	94	<b>COST</b> \$6,536	QTY.	COST	QTY.	COST	QTY.	COST			
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	<del></del>	\$11,024			
Totals:			\$48,379		\$34,621		\$29,282		\$43,307			

ONOLAGON ILD											
BUDGET ITEM JUS	TIFICATION (I	EXHIBIT P-40)				DATE: FEBR	JARY 1999	)			
APPROP CODE/BA	:		-	P-1 NOME	P-1 NOMENCLATURE:						
APAF/WAR CONSUMAE	ADVANCED	AIRBORNE EXPE	NDABLE DECOY (A	AED)							
	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003 FY	2004	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			
Description:								,			
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 FY97and will continue for a total of 17,306 decoys.  2. Failure to procure this Advanced Airborne Expendable Decoy prevents sustainment of projected wartime sortic 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 requirem											
		<b>P-1 ITEM NO:</b> 73			PAGE NO:		Page	1 of 2			

	<del></del>	<u> </u>				
BUDGET ITEM JUSTIFICATION (	EXHIBIT P-40)				DATE: FEBRUA	ARY 1999
APPROP CODE/BA:			P-1 NOME	NCLATURE:		
APAF/WAR CONSUMABLES			ADVANCED	AIRBORNE EXPEN	DABLE DECOY (AA	ED)
Description (cont.):						
quantities of this AAED are being pro impacted.	cured for the B-1B.	. Therefore, if th	ne number of c	decoys are reduced	, both the F-16 and	the B-1B will be
	·					
,						
	P-1 ITEM NO:			PAGE NO:		Page 2 of 2

	-			IVL	.700	<u> </u>	<u> </u>						
WEAPON SYSTEM COST A	NALYSIS	(EXHIB	IT P- 5)						<u></u> [	DATE:	FEBRU.	ARY 199	99
APPROP CODE/BA: APAF/WAR CONSUMABLES				F	P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)								
WEAPON SYSTEM	IDENT		FY1998			FY1999		<u> </u>	FY2000			FY2001	
COST ELEMENTS	CODE	QTY	UNIT	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL	QTY	UNIT	TOTAL
DECOY	А	1372	22,058	30,264	4 1136	22,171	25,186	889	23,182	20,609	1445	22,090	31,920
WARRANTY		1372	551	756	ĵ							!	
NON RECUR TOOLING			ļ	16	5								
MGT INFORMATION SYS				594	4								
CONTAINERS	А	58	780	45	5 47	848	40	37	887	33	60	879	53
NON CONUS SHIPPING				44	4		49						
CONTINGENT LIABILITY				1,417	7								
ENGINEERING CHANGE ORDER							258			211			310
TOTALS:				33,136	ò		25,533			20,853			32,283
REMARKS: One container required for every 24	decoys.												
	<b>P-1 ITEM</b> 73	NO:			PAG	E NO:					Pa	ge 1 of 1	1

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)						DATE: FE	BRUAI	RY 199	9	
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.	EIDET	SPECS AVAIL NOW	DATE REV. AVAIL	
AAED/FY98	1372	22,058	AFMC/ASC	OPT/FPIF	E-SYSTEMS, GOLETA, CA [1]	DEC 9	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	Υ		
AAED/FY01	1445	22,090	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA [1]	DEC 00	FEB 02	Υ		
	P-1	<b>ITEM N</b> 73	O:	PAGE NO:			Page	9 1 of	1	

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						
1. The "Items Less Than \$5 Million" line includes commodities such as launchers, tank storage/shipping containers, fiber optic towe pylon nuclear upgrade kits, and tanks. These items are applicable across multiple weapon systems. These initial/replacement War Corequirements 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 of following P-40a.  3. Type Item: A	onsumables						
P-1 ITEM NO: PAGE NO: Page	1 of 1						

BUDGET ITEM JUSTIFICATION FOR AGGREGATE	40A-IL)	DATI	E: FEBRUAF	RY 1999					
APPROP CODE/BA: APAF/WAR CONSUMABLES	P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000								
		FY20	00	FY	2001				
PROCUREMENT ITEMS	NSN	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				
<b>P-1 ITEM NO</b> : 73	PAGE NO			Page	1 of 1				

	BUDGET ITEM JUSTIFICATION SHEET								
DDD ODDI ATION /DVD COT A COVENIE								Feb-99	
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							1101	1103	
COST					<del> </del>		<del></del>		
(in thousands)	240,283	204,001	339,624	363,233	380,614	358,091	520,708	431,538	
(iii tiiotistiitis)	240,263	204,001	339,624	363,233	380,614	358,091	520,708	431	

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-1 Shopping List

Exhibit P-41a, Budget Item Justification for Aggregated Items				:	Date: Fel	oruary 199	99
					<u> </u>	1	
Appropriation/Budget Activity		AIRC	RAFT PR	OCUREM	IENT. AF	BA07	
Procurement Items	FY1998	FY1999	FY2000	FY2001		J. I.O.	T
	(\$000)	(\$000)	(\$000)	(\$000)			
B-1B Conventional Bomb Modules	0	0	0	15,083			
C-130J		0	<del></del>	263	<del></del>	<u> </u>	
C-5 Airborne Broadcast Intelligence	1,483	1,376				<u> </u>	
Classified/Intelligence Programs	102,551	81,211		, , , , ,	<del></del>		<u> </u>
Combat Training Range Equipment	9,751	417	17,257	18,672			<del> </del>
Command and Control Module	1,957	0	0	0			
Electronic Warefare Integrated Reprogramming	2,509	5,716	1,923	2,010			
F-22	0	2,894	6,062	7,455		<u> </u>	
Judgment Fund Reimbursement	0	0	25,000				<del>                                     </del>
KC-135 Airborne Broadcast Intelligence	1,490	1,462	1,436	1,410		<del> </del>	-
Manned Destructive Suppression	0	10,053	0	0		<del> </del>	+
NATO AWACS Program	68,260		70,465	56,038		<del> </del>	<del> </del> -
NAVSTAR Global Positioning System User Equipment	42,376	35,668	36,237	55,287			<del> </del>
Podded Reconnaissance System	6,082	0	0	0			<del> </del>
Pollution Prevention	3,824	1,880	3,097	3,020			<del>                                     </del>
Precision Attack Systems	0	0	47,843	0			
TOTAL	240,283	204,001	339,624	363,233			<del> </del> -

DATE: Feb 99

## 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 Despenser. 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.

	<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

DATE: Feb 99

## 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.

	<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

DATE: Feb 99
P-1900

## 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.

	<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

DATE: Feb 99 P-1900

#### 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.

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

DATE: Feb 99

# 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>	FY 99	<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

DATE: Feb 99 P-1900

## 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>	FY01
BASIS FOR COST ESTIMATE:				
Silver Bullet	1,957	0	0	0
TOTAL COST	1,957	0	0	0

DATE: Feb 99 P-1900

## 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.

= = = = = = = = = = = = = = = = = = =	FY 98	<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

DATE: Feb 99 P-1900

## 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.

	<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

DATE: Feb 99

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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.

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

DATE: Feb 99 P-1900

## 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.

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

DATE: Feb 99
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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.

	<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

DATE: Feb 99 P-1900

## 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.

	<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

DATE: Feb 99 P-1900

## 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

DATE: Feb 99 P-1900

## 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

DATE: Feb 99

## 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.

	FY 98	<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

DATE: Feb 99

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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

BUDGET ITEM JUSTIFICATION SHEET							DATE February 1999	
PPROPRIATION/BUDGET ACTIVITY  IRCRAFT PROCLIPEMENT, AE/PA 07 AIRCRAFT CURRENT TO A THEORY.					P-1 NOMENCLATURE			
AIRCRAFT PROCUREMENT, AF/BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					COMMON ELEC COUNTERMEASURES EQUIPMENT			
OTT IN THE	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								1105
COST								
(in thousands)	6,426	11,928	4,866	4,959	5,151	5,292	5,430	5,541

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.

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## FY 2000 PRESIDENT'S BUDGET SUBMISSION COMMON ELECECTRONICS 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:

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

BUDGET ITEM IUSTIFICATION SHEET							DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					P-1 NOMENCLATURE  MANNED RECONNAISSANCE SYSTEM			
QUANTITY	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
COST (in thousands)	171,417	141,402	130,129	119,063	128,018	125,599	117,141	117,855

This program provides centralized funding for multi-Service and Air Force requirements to field future airborne reconnaissance systems.

P-1 Shopping List

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## 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.

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